



**RAMSEY-WASHINGTON**  
METRO WATERSHED DISTRICT

# **August 2023 Board Packet**

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# Agenda

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## **Regular Board Meeting Agenda**

Wednesday, August 2, 2023

6:30 PM

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

1. Call to Order – 6:30 PM
2. **Approval of Agenda (pg. 3)**
3. **Consent Agenda: To all be approved with one motion unless removed from consent agenda for discussion.**
  - A. Approval of Regular Meeting Minutes June 28, 2023 (pg. 7)
  - B. Treasurer's Report and Bill List (pg. 12)
  - C. Permit Program
    - i. 23-22 MCES Lake Elmo West Connection, Oakdale/Woodbury (pg. 25)
  - D. Stewardship Grant Program
    - i. 23-38 CS DeArmond, rain garden and habitat restoration (pg. 28)
    - ii. 23-39 CS Gerding, rain garden and habitat restoration (pg. 30)
    - iii. 23-40 CS Gourley, habitat restoration (pg. 32)
    - iv. 23-41 CS Hines, habitat restoration (pg. 34)
    - v. 23-42 CS Radloff, rain garden and habitat restoration (pg. 36)
4. Visitor Comments (limited to 4 minutes each)
5. Permit Program
  - A. Applications – see consent agenda
  - B. Enforcement Action Report (pg. 39)
6. Stewardship Grant Program
  - A. Applications – see consent agenda
  - B. **Snowmelt BMP Analysis and Funding Recommendation (pg. 43)**
  - C. Budget Status Update (pg. 48)
7. Action Items - NONE
8. Attorney Report
9. Board Discussion Topics
10. New Reports and/or Presentations
  - A. 2024 Budget Discussion (pg. 50)
  - B. Wetland Workshop Follow-Up: Wetland Restoration Planning (pg. 62)
11. Administrator's Report (pg. 92)
  - A. Meetings Attended
  - B. Upcoming Meetings and Dates
  - C. Board Action Log and Updates
  - D. Minnesota Watersheds Updates

E. Diversity, Equity, Inclusion, and Accessibility Plan

12. Project and Program Status Reports (*pg. 100*)

*Project Feasibility Studies*

- A. Interim Emergency Response Planning
- B. Kohlman Creek Flood Risk Feasibility Study
- C. Ames Lake Area Flood Risk Reduction Planning Study
- D. Owasso Basin/North Star Estates Improvements
- E. Resiliency Study for non-Beltline Tributary Areas

*Research Projects*

- F. Kohlman Lake Aquatic Plans and Nutrients Study
- G. Shallow Lake Aeration Study

*Capital Improvements*

- H. Woodbury Target Store Stormwater Retrofit Projects
- I. Roosevelt Homes Targeted Retrofit Project
- J. Stewardship Grant Program Support
- K. Arbogast Stormwater Filtration BMP
- L. Double Driveway Pond and Fish Creek Tributary Improvements
- M. Pioneer Park Stormwater Reuse

*CIP Project Repair and Maintenance*

- N. 2023 CIP Maintenance and Repair Project
- O. Beltline 5-year Inspection

*Program Updates*

- P. Natural Resources Program
- Q. Public Involvement and Education Program
- R. Communications and Outreach Program

13. Manager Comments and Next Month's Meeting

14. **Adjourn**





# RAMSEY-WASHINGTON

## METRO WATERSHED DISTRICT

### **NOTICE OF BOARD MEETING**

**Wednesday, August 2, 2023**

**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/84666486128?pwd=c0FqSURaclBzVVU0c3dvMFVwT2FrUT09>

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 **846 6648 6128**. The meeting password is **685606**. If you have any questions, please contact Tina Carstens at [tina.carstens@rwmwd.org](mailto:tina.carstens@rwmwd.org).

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# Consent Agenda

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**Ramsey-Washington Metro Watershed District  
Minutes of Regular Board Meeting  
June 28, 2023**

The Regular Meeting of June 28, 2023, 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/xIptR-I9qP0>. Video time stamps included after each agenda item in minutes.

**PRESENT:**

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

**ABSENT:**

Dr. Pam Skinner, Vice President

**ALSO PRESENT:**

Tina Carstens, District Administrator  
Laurann Kirschner, Attorney for District  
Nicole Maras, Permit Coordinator  
Patrick Williamson, Natural Resources Specialist  
Anne Sawyer, BWSR

Paige Ahlborg, Project Manager  
Brandon Barnes, Barr Engineering  
Paul Erdmann, Natural Resource Program Manager  
Nick Nelson, Water Monitoring Intern  
Kyle Kubitza, Water Monitoring Technician

**1. CALL TO ORDER**

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

**2. APPROVAL OF AGENDA (00:15)**

Motion: Manager Kramer moved, Manager Karp seconded, to approve the agenda as presented. Motion carried unanimously.

**3. CONSENT AGENDA (00:28)**

- A. Approval of Minutes from June 7, 2023
- B. Treasurer's Report and Bill List
- C. Permit Program
  - i. 23-18: Gramsie Junction, Shoreview
  - ii. 23-19: Battle Creek Middle School Stormwater Retrofit, St. Paul
  - iii. 23-21: MWWTP Lab Services Building, St. Paul
- D. Stewardship Grant Program
  - i. 23-27 CS: Chikkala – Rain Garden
  - ii. 23-28 CS: Lake Phalen Aquatic Vegetation Harvesting
- E. 2023 CIP Maintenance and Repair – Change Order No. 2

Motion: Manager Kramer moved, Manager Karp seconded, to approve the consent agenda as presented. Motion carried unanimously.

President Eisele referenced Permit #23-19 and asked if that would include educational signage. Paige Ahlborg confirmed that there would be signage.

#### **4. VISITOR COMMENTS (1:40)**

New members of staff Patrick Williamson, Paul Erdmann, and Nick Nelson introduced themselves.

Anne Sawyer, Board of Water and Soil Resources, introduced herself to the Board.

#### **5. PUBLIC HEARING FOR 2023 PERMIT RULE REVISIONS (MATERIALS FOUND ON WEBSITE OR JUNE 2023 PACKET) (5:13)**

President Eisele opened the public hearing.

No comments from the public.

President Eisele closed the public hearing.

Nicole Maras provided additional details on the timeline moving forward.

#### **6. PERMIT PROGRAM (7:55)**

##### **A. Applications**

##### **Permit #23-20: Gerdau TMS Area Restoration – St. Paul**

Nicole Maras stated that this project will occur at an industrial facility near the Mississippi River that is no longer operational. She stated that this is a wetland restoration project and explained that a variance will be necessary for buffer disturbance.

Manager Gernes asked the interaction between the wetland and Fish Creek. Nicole Maras stated that there are no impacts proposed to Fish Creek but commented that it does appear that the wetland is hydrologically connected to Fish Creek. Manager Gernes commented that this is described as a voluntary action and asked if there have been pressures from other agencies or interests for this project. He asked if banking had been discussed. Nicole Maras replied that banking is not part of the consideration. She was unsure about the origin of this project and/or issue but was not aware of formal enforcement.

President Eisele commented that he supports doing more for wetlands and therefore likes the project. He asked if the slag would be toxic and whether precautions would need to be taken when removing that material. Nicole Maras replied that it is her understanding that it is not hazardous and would be taken out of the wetland and placed further upland. President Eisele asked if there is more that could be done on the site for the future to consider. Nicole Maras replied that the District has not looked at restoration on this site and noted that the applicant is restoring more than what currently exists on the site. She stated that this site would be up for redevelopment in the future, therefore she was unsure that there would be interest in expanding past what is proposed.

Manager Gernes recognized that the applicant is proposing to reseed with the MnDOT seed mix and asked the difference between that mix and the BWSR seed mix. Nicole Maras stated that the MnDOT seed mix is more often used but was unsure why. Paul Erdmann provided additional details on the different seed mixes noting that the MnDOT mixes are generally lower cost than the BWSR mixes. Manager Gernes suggested that staff make a suggestion to use the BWSR seed mix with future applicants. Nicole Maras stated that she can also make that suggestion with this project.

Motion: Manager Gernes moved, Manager Kramer seconded, to approve Permit #23-20 with the variance. Motion carried unanimously.

B. Monthly Enforcement Report

During June, seven notices were sent to address: install/maintain inlet protection (1), install/maintain perimeter control (4), install/maintain construction entrance (1), and contain liquid/solid wastes (1).

**7. STEWARDSHIP GRANT PROGRAM (28:38)**

A. Applications – See Consent Agenda

B. Budget Status Update

Paige Ahlborg provided a brief update and welcomed any questions.

President Eisele referenced public art and asked if people are aware of that grant opportunity. Paige Ahlborg replied that it is posted on the website and for this year it has been related to sign requests. President Eisele stated that perhaps that would be a method to get more students involved in projects.

**8. ACTION ITEMS – NONE (32:40)**

**9. ATTORNEY REPORT (32:47)**

Laurann Kirschner provided an update on the work legal counsel did for the public hearing notice in cooperation with the District during this last month.

**10. BOARD DISCUSSION TOPICS (34:53)**

President Eisele commented that there have been discussions about the CAC and asked if it would make sense to have additional reporting from the CAC on what they are hearing from residents/neighborhoods.

Manager Gernes commented that as a member of the CAC for some years he could not recall many occasions where residents reached out to that group, outside of WaterFest. He commented that more outreach is obtained through the education program and acknowledged that some CAC members are involved in that programing.

**11. NEW REPORTS AND/OR PRESENTATIONS (42:58)**

A. 2024 Budget Planning Memo

Tina Carstens stated that this is a high-level memo and more detailed information will be provided at the next meeting for more in-depth discussion. Manager Gernes commented that he appreciated the category information.

President Eisele referenced the street sweeping and possible equipment purchase or assistance with equipment and asked if that would be discussed separately or during the budget process. Tina Carstens commented that the pilot is not yet complete and therefore she would not anticipate equipment purchases in 2024. President Eisele asked if there are plans on which grants the District would apply for next year. Tina Carstens replied that the District fully budgets for projects in most cases and then if the grant funds are received, that reduces the cost. President Eisele commented that it seems more work needs to be done before refining costs for the wetland restoration item. Tina Carstens replied that the wetland restoration assessment has been completed and will be presented to the Board at the next meeting. She confirmed that funds have already been levied for that purpose.

Manager Gernes asked for more details on the CIP category. Tina Carstens provided more explanation on programs within that category including the stewardship grant program and targeted retrofit program. Manager Gernes asked if staff ever guides a stewardship grant applicant towards the targeted retrofit program. Paige Ahlborg confirmed that those discussions do happen and provided an example of when a project switched programs.

Manager Kramer asked for details on the five percent benchmark under salaries. Tina Carstens replied that typically that is three to five percent but given the workforce challenges and information obtained from the salary survey she has budgeted five percent. President Eisele asked and received confirmation that the five percent is an average.

President Eisele asked if property acquisition would fall under one of these categories. Tina Carstens replied that would fall under flood risk reduction. Brandon Barnes provided additional details on the discussions with NorthStar Estates.

Tina Carstens provided a summary of the budget timeline moving forward.

**B. Woodbury Target Store Targeted Retrofit Scope Summary Update**

Brandon Barnes provided a summary of the work completed in phase one which is wrapping up. He noted that the scope summary includes the phase one tasks as well as the phase two tasks. He reviewed the anticipated timeline with construction to tentatively occur next spring.

Paige Ahlborg commented that this is the last Target store within the District boundaries. She noted that Target has appreciated working with the District and is working to implement similar measures at other stores in other watershed areas.

**C. Kohlman Lake Aquatic Plant Management Effect Study**

Brandon Barnes commented that the water quality has noticeably declined in Kohlman Lake over the past few years. He stated that during this research project they are monitoring Kohlman and Beaver lakes in order to make recommendations on aquatic plant management. He reviewed the timeline.

President Eisele asked why Beaver Lake was selected as a control. Brandon Barnes commented that it is a similar size and character water body that has not seen the same decline in water quality. Tina Carstens commented that the District has long-term data on both water bodies as well.

President Eisele asked if there is similar concern for Kohlman Creek. Tina Carstens replied that they do not have that concern with Kohlman Creek. She confirmed that there is a monitoring station at the end of Kohlman Creek as it enters the lake.

**12. ADMINISTRATOR'S REPORT (1:12:33)**

**A. Meetings Attended**

Tina Carstens noted the meetings attended.

**B. Upcoming Meetings and Dates**

Tina Carstens highlighted the upcoming meetings and dates.

**C. Board Action Log and Updates**

Tina Carstens stated that she has had some IT issues and once that is resolved she will work on this document.

The Board suggested having more discussion about the different seed mixes in the future.

**D. Minnesota Watersheds Updates**

Tina Carstens commented that she and Manager Karp attended the summer tour last week. Manager Karp commented that it was a good event and provided an update on the meetings he attended. He commented that he found benefit in seeing the rural projects compared to the urban projects completed by the District.

E. Staffing Updates

Tina Carstens commented that while it has been a lot of work over the past few months, it is exciting to have three new members of the natural resources team.

**13. PROJECT AND PROGRAM STATUS REPORTS (1:27:41)**

*Project Feasibility Studies*

- A. Interim Emergency Response Planning
- B. Kohlman Creek Flood Risk Reduction Planning Study
- C. Ames Lake Area Flood Risk Reduction Planning Study
- D. Owasso Basin/North Star Estates Improvements
- E. Resiliency Study for Non-Beltline Tributary Areas
- F. Street Sweeping Study

*Research Projects*

- G. Kohlman Lake Aquatic Plants and Nutrients Study
- H. Shallow Lake Aeration Study

*Capital Improvements*

- I. Woodbury Target Store Stormwater Retrofit Projects
- J. Roosevelt Homes Targeted Retrofit Project
- K. Stewardship Grant Program Support
- L. Arbogast Stormwater Filtration BMP
- M. Double Driveway Pond and Fish Creek Tributary Improvements

*CIP Project Repair and Maintenance*

- N. 2023 CIP Maintenance and Repair Project
- O. New Technology Mini Case Study – Blue Roofs

*Program Updates*

- P. Natural Resources Program
- Q. Public Involvement and Education Program
- R. Communications and Outreach Program
- S. Citizens Advisory Committee (CAC)

President Eisele asked for details on when certain items would come back to the Board and staff provided the timelines. He commented that he found the blue roof technology report to be interesting.

**14. MANAGER COMMENTS AND NEXT MONTH'S MEETING (1:37:59)**

No additional comments.

**15. ADJOURN**

Motion: Manager Karp moved, Manager Kramer seconded, to adjourn the meeting at 8:08 p.m. Motion carried unanimously.

RWMWD BUDGET STATUS REPORT  
Administrative & Program Budget  
Fiscal Year 2023  
7/31/2023

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	-	-	375.00	\$6,625.00	5.36%
	Manager expenses	4360	3,000.00	-	-	-	3,000.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	484.85	2,645.71	854.29	75.59%
	<b>Sub-Total: Managers/Committees:</b>		<b>\$13,500.00</b>	<b>\$0.00</b>	<b>\$484.85</b>	<b>\$3,020.71</b>	<b>\$10,479.29</b>	<b>22.38%</b>
Employees	Staff salary/taxes/benefits	4010	1,860,000.00	-	134,323.37	978,285.34	881,714.66	52.60%
	Employee expenses	4020	15,000.00	-	703.14	3,659.52	11,340.48	24.40%
	District training & education	4350	75,000.00	-	979.70	3,264.00	71,736.00	4.35%
	<b>Sub-Total: Employees:</b>		<b>\$1,950,000.00</b>	<b>\$0.00</b>	<b>\$136,006.21</b>	<b>\$985,208.86</b>	<b>\$964,791.14</b>	<b>50.52%</b>
Administration/ Office	GIS system maint. & equip.	4170	10,000.00	-	2,082.00	3,339.25	6,660.75	33.39%
	Data Base/GIS Maintenance	4171	20,000.00	-	-	-	20,000.00	0.00%
	Equipment maintenance	4305	2,000.00	-	-	-	2,000.00	0.00%
	Telephone	4310	2,000.00	-	59.34	356.04	1,643.96	17.80%
	Office supplies	4320	7,000.00	-	1,353.45	6,446.31	553.69	92.09%
	IT/Internet/Web Site/Software Lic.	4325	85,000.00	-	6,952.21	51,453.97	33,546.03	60.53%
	Postage	4330	2,000.00	-	-	174.15	1,825.85	8.71%
	Printing/copying	4335	5,000.00	-	738.00	3,385.28	1,614.72	67.71%
	Dues & publications	4338	15,000.00	-	139.00	12,639.00	2,361.00	84.26%
	Janitorial/Trash Service	4341	15,000.00	-	-	6,360.86	8,639.14	42.41%
	Utilities/Bldg.Contracts	4342	30,000.00	-	692.68	6,024.06	23,975.94	20.08%
	Bldg/Site Maintenance	4343	125,000.00	-	1,422.88	84,017.26	40,982.74	67.21%
	Miscellaneous	4390	5,000.00	-	-	-	5,000.00	0.00%
	Insurance	4480	60,000.00	-	12,796.00	57,143.00	2,857.00	95.24%
	Office equipment	4703	100,000.00	-	-	4,240.57	95,759.43	4.24%
	Vehicle lease, maintenance	4810-40	20,000.00	-	1,492.98	4,219.79	15,780.21	21.10%
	<b>Sub-Total: Administration/Office:</b>		<b>\$503,000.00</b>	<b>\$0.00</b>	<b>\$27,728.54</b>	<b>\$239,799.54</b>	<b>\$263,200.46</b>	<b>47.67%</b>
Consultants/ Outside Services	Auditor/Accounting	4110	75,000.00	-	4,061.07	46,153.29	28,846.71	61.54%
	Engineering-administration	4121	132,000.00	-	11,202.50	46,655.93	85,344.07	35.35%
	Engineering-permit I&E	4122	10,000.00	-	-	-	10,000.00	0.00%
	Engineering-eng. review	4123	70,000.00	-	3,615.50	30,509.50	39,490.50	43.59%
	Engineering-permit review	4124	59,000.00	-	5,685.00	30,972.00	28,028.00	52.49%
	Project Feasibility Studies	4129	395,000.00	-	25,368.00	116,831.88	278,168.12	29.58%
	Attorney-permits	4130	5,000.00	-	-	-	5,000.00	0.00%
	Attorney-general	4131	40,000.00	-	980.00	12,129.60	27,870.40	30.32%
	Outside Consulting Services	4160	20,000.00	-	-	-	20,000.00	0.00%
	<b>Sub-Total: Consultants/Outside Services:</b>		<b>\$806,000.00</b>	<b>\$0.00</b>	<b>\$50,912.07</b>	<b>\$283,252.20</b>	<b>\$522,747.80</b>	<b>35.14%</b>
Programs	Educational programming	4370	70,000.00	-	2,386.59	21,106.00	48,894.00	30.15%
	Communications & Marketing	4371	50,000.00	-	1,051.39	2,929.60	47,070.40	5.86%
	Events	4372	51,000.00	-	1,080.00	49,709.86	1,290.14	97.47%
	Water QM-Engineering	4520-30	240,000.00	-	26,795.97	92,267.94	147,732.06	38.44%
	Project operations	4650	200,000.00	-	3,937.79	19,214.81	180,785.19	9.61%
	SLMP/TMDL Studies	4661	142,000.00	-	26.00	529.00	141,471.00	0.37%
	Natural Resources/Keller Creek	4670-72	120,000.00	-	439.15	28,148.12	91,851.88	23.46%
	Outside Prog.Support/Weed Mgmt.	44683	57,000.00	-	3,369.33	18,238.66	38,761.34	32.00%
	Research Projects	4695	155,000.00	-	28,519.61	64,342.30	90,657.70	41.51%
	Health and Safety Program	4697	4,000.00	-	133.47	921.26	3,078.74	23.03%
	<b>Sub-Total: Programs:</b>		<b>\$1,089,000.00</b>	<b>\$0.00</b>	<b>67,739.30</b>	<b>\$297,407.55</b>	<b>\$791,592.45</b>	<b>27.31%</b>
<b>GENERAL FUND TOTAL</b>			<b>\$4,361,500.00</b>	<b>\$0.00</b>	<b>\$282,870.97</b>	<b>\$1,808,688.86</b>	<b>\$2,552,811.14</b>	<b>41.47%</b>
CIP's	CIP Project Repair & Maintenance	516	1,500,000.00	-	70,141.00	805,400.39	694,599.61	53.69%
	Targeted Retrofit Projects	518	1,500,000.00	-	133,373.85	337,362.33	1,162,637.67	22.49%
	Flood Risk Reduction Fund	520	5,200,000.00	-	379,556.78	602,823.33	4,597,176.67	11.59%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	395,404.00	-	88,720.53	393,783.56	1,620.44	99.59%
	Stewardship Grant Program Fund	529	1,128,000.00	-	108,175.58	166,010.70	961,989.30	14.72%
	Double Driveway Water Quality Optimization	537	675,000.00	-	35,111.99	70,223.98	604,776.02	10.40%
	Wetland Restoration Projects	540	500,000.00	-	-	-	500,000.00	0.00%
<b>CIP BUDGET TOTAL</b>			<b>\$10,898,404.00</b>	<b>\$0.00</b>	<b>\$815,079.73</b>	<b>\$2,375,604.29</b>	<b>\$8,522,799.71</b>	<b>21.80%</b>
<b>TOTAL BUDGET</b>			<b>\$15,259,904.00</b>	<b>\$0.00</b>	<b>\$1,097,950.70</b>	<b>\$4,184,293.15</b>	<b>\$11,075,610.85</b>	<b>27.42%</b>

Current Fund Balances:

Fund:	Unaudited Beginning Balance @ 12/31/22	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Unaudited Fund Balance @ 07/31/23
101 - General Fund	\$2,313,604.42	-	2,207,401.34	282,870.97	1,808,688.86	2,712,316.90
516 - CIP Project Repair & Maintenance	1,143,456.57	-	377,842.91	70,141.00	805,400.39	715,899.09
518 - Targeted Retrofit Projects	164,101.49	-	853,083.34	133,373.85	337,362.33	679,822.50
520 - Flood Damage Reduction Fund	5,075,970.05	-	165,390.89	379,556.78	602,823.33	4,638,537.61
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	551,908.60	-	-	88,720.53	393,783.56	158,125.04
529 - Stewardship Grant Program Fund	428,736.05	-	417,565.78	108,175.58	166,010.70	680,291.13
536 - Stormwater Impact Fund	358,950.00	-	782,281.00	-	-	1,141,231.00
537 - Double Driveway Water Quality Optimization Implementation	-	-	104,391.45	2,293.00	37,404.99	66,986.46
540 - Wetland Restoration Projects	498,036.00	-	-	-	-	498,036.00
580 - Contingency Fund	1,465,487.00	-	-	-	-	1,465,487.00
<b>Total District Fund Balance</b>	<b>\$12,000,250.18</b>	<b>\$0.00</b>	<b>\$ 4,907,956.71</b>	<b>\$ 1,065,131.71</b>	<b>\$4,151,474.16</b>	<b>\$12,756,732.73</b>



**Ramsey Washington Metro Watershed Dist.**  
**Check Register**  
**For the Period From July 1, 2023 to July 31, 2023**

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	07/05/23	hea002	Aug-23	HealthPartners	Employee Benefits	\$12,889.29
EFT	07/01/23	met008	Jul-23	MetLife-Group Benefits	Employee Benefits	1,560.29
EFT	07/24/23	voy001	Jul-23	USBank Voyager Fleet System	Vehicle Fuel	642.58
73925	06/29/23	met014	Inv Ap	Metro Transit	Construction/Imp. Flood Damage Reduction Func	372,832.28
73828V	07/01/23	gra001	WF23	Rick Gravrok	Events	(200.00)
73926	07/12/23	ada002	3684326	Adam's Pest Control, Inc	Utilities/Building Services Contracts	94.72
73927	07/12/23	aws001	S1335957-070123	AWS Service Center	Utilities/Building Services Contracts	318.67
73928	07/12/23	con005	77608	Contree Sprayer & Equip. Co., LLC	Natural Resource Program	67.30
73929	07/12/23	esr001	94512537	ESRI	GIS System Maintenance and Equipmen	1,375.00
73930	07/12/23	fir001	340416	First Student, Inc. #22157	Education	231.44
73931	07/12/23	fle001	7/6/2023	Flemings Auto Service	Vehicle Maintenance	34.34
73932	07/12/23	gra001	WF23	Rick Gravrok	Events	200.00
73933	07/12/23	hom001	23-Jun	Home Depot Credit Services	Water Quality Monitoring - Staff	232.83
73934	07/12/23	inn002	IN4244947	Innovative Office Solutions LLC	Office Supplies	353.37
73935	07/12/23	met004	INV2308359	Metro Sales, Inc.	Copier Lease	444.00
73936	07/12/23	mid001	6636745	Quicksilver Express Courier	Office Supplies	84.73
73937	07/12/23	mon001	79938	Monarch Bus Service	Events	1,080.00
73938	07/12/23	ncp001	June 1, 2023	NCPERS Group Life Ins.	Employee Benefits	16.00
73939	07/12/23	pac001	Jul-23	Pace Analytical Services, Inc	Water Quality Monitoring - Staff	12,708.00
73940	07/12/23	pre003	319519082	Premium Waters, Inc	Utilities/Building Service Contracts	34.00
73941	07/12/23	sai001	4104	Saint Paul Media	Communications and Marketing	50.00
73942	07/12/23	sch009	31069	Schlomka Services, LLC	Project Operations/Maintenance and Repairs	4,480.00
73943	07/12/23	stu001	2019760	Studio Lola	Office Supplies	756.44
73944	07/12/23	tim002	M28361	Timesaver Off-Site Secretarial, Inc	Committee/Board Meeting Expenses	234.50
73945	07/12/23	usb005	502862725	US Bank Equipment Finance	Copier Lease	294.00
73946	07/12/23	vik001	3267977	Viking Industrial Center	Water Quality Monitoring - Staff	99.00
73947	07/12/23	voy001	869293432325	US Bank Voyager Fleet Sys.	Vehicle Fuel	642.58
73948	07/25/23	bar001	June 10 to July 14, 2023	Barr Engineering	June Engineering Expense	164,505.33
73949	07/25/23	bau002	23-11 CS	Christopher Bauleke	Stewardship Grant Program	733.30
73950	07/25/23	ben002	116517	Benefit Extras	Employee Benefits	134.00
73951	07/25/23	cad001	19693069	Zayo Group, LLC	Water Quality Monitoring - Staff	198.25
73952	07/25/23	cit001	Jul-23	City of Little Canada	Utilities/Building Services Contracts	151.81
73953	07/25/23	dau001	Jun/Jul 2023	Jennifer A. Daur	Employee Expenses	37.79
73954	07/25/23	dav003	162745	Davey Resource Group, Inc	Construction Improvements/Project Main. & Rep	6,146.00
73955	07/25/23	don003	21-04 MTN	Jake Donahue	Stewardship Grant Program	300.00
73956	07/25/23	esc003	23-20 CS	Escape Climbing	Stewardship Grant Program	33,303.05
73957	07/25/23	fit002	6/1-7/1 2023	Mary Fitzgerald	Employee Benefits	258.94
73958	07/25/23	fit003	23-Jul	Emily Kamir	Employee Benefits	40.00
73959	07/25/23	gal001	July 20, 2023	Galowitz Olson, PLLC	Attorney General	980.00
73960	07/25/23	gil001	233873	Gilbert Mechanical Contractors, Inc	Building/Site Maintance	1,075.88
73961	07/25/23	hau002	22-24 CS	Marnie Hausauer	Stewardship Grant Program	15,000.00
73962	07/25/23	hiw001	19-04	Hiway Credit Union	Stewardship Grant Program	5,750.00
73963	07/25/23	hut001	22-33 CS	Josh Hutchinson	Stewardship Grant Program	6,337.50
73964	07/25/23	inn002	IN4264856	Innovative Office Solutions, LLC	Office Supplies	76.34
73965	07/25/23	int001	W23060483	Office of MN, IT Service	Telephone	59.34
73966	07/25/23	jac005	23-26 CS	Brian Jacobson	Stewardship Grant Program	1,250.00
73967	07/25/23	kor001	23-Jul	Eric Korte	Employee Benefits	320.00
73968	07/25/23	kwi001	21-14	Kwik Trip, Inc	Escrow Refunds	4,845.00
73969	07/25/23	lan009	1992	Landbridge Ecological	Construction Improvements/Project Main. & Rep	1,356.60
73970	07/25/23	lea001	WC1003270-7	League of MN Cities Ins. Trust WC	Insurance	12,796.00
73971	07/25/23	lea003	15-1007	L. Tracy Leavenwort	Education	2,155.15
73972	07/25/23	mel001	June/July 2023	Michelle L. Melsner	Employee Benefits, Expenses	101.31
73973	07/25/23	met013	1369	Metro - INET	Roseville IT Services/Web Site/Software/License	6,859.00
73974	07/25/23	min010	21-Aug-23	MN Public Facilities Authority	Loan Repayment	88,720.53
73975	07/25/23	mor003	18-30	Morrie's Auto Group	Escrow Refunds	29,845.00
73976	07/25/23	nel006	June/July 2023	Katrina Nelson	Employee Expenses	29.91
73977	07/25/23	nel007	April-July 2023	Nicholas Nelson	Employee Expenses	22.93
73978	07/25/23	pac001	Jul-23	Pace Analytical Services, Inc	Water Quality Monitoring - Staff	11,196.00
73979	07/25/23	pas002	June/July 2023	Carol Passi	Employee Benefits, Expenses	159.21
73980	07/25/23	pet004	July 2023	Ashley N. Petel	Employee Expenses	115.94
73981	07/25/23	ram002	PRK-002223	Ramsey County	Stewardship Grant Program	17,731.25
73982	07/25/23	red002	150479363	Redpath & Company, LLC.	Accounting	3,892.17
73983	07/25/23	res003	Snail Lake Retainage	Resource Environmental Solutions, LLC	Stewardship Grant Program	14,787.48
73984	07/25/23	roc001	2765	Rock Leaf Water Environmental, LLC	Construction Improvements/Project Main. & Rep	4,668.97
73985	07/25/23	sho004	Progress Pmt #4 Pay App #1	Shoreline Landscaping	Construction Improvements/Targeted Retrofit	100,668.67
73986	07/25/23	sim001	23-Jul	Emily Simmons	Employee Benefits, Expenses	201.26
73987	07/25/23	smi003	23-34 CS	Iris Smith	Stewardship Grant Program	2,250.00
73988	07/25/23	sod001	Jul-23	Nicole Soderholm	Employee Benefits, Expenses	152.05
73989	07/25/23	ste002	23-18 CS	Emily Stewart	Stewardship Grant Program	2,850.00
73990	07/25/23	str004	7/17/2023	Warren's Striping	Building/Site Maintance	225.00
73991	07/25/23	stu001	2019769	Studio Lola	Employee Benefits	173.47

**Ramsey Washington Metro Watershed Dist.**  
**Check Register**  
**For the Period From July 1, 2023 to July 31, 2023**

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
73992	07/25/23	svo001	22-18 CS	Thomas Svoboda	Stewardship Grant Program	2,437.50
73993	07/25/23	til002	Jul-23	Joseph S. Tillotson	Employee Benefits, Expenses	167.49
73994	07/25/23	usb002	July 2023 Statement	U.S. Bank	June/July Credit Card Expense	4,876.14
73995	07/25/23	was002	6129;6106	Washington Conservation District	Water Quality Monitoring - Staff	3,496.08
73996	07/25/23	wat003	23-051789	Water Storage Tanks, Inc	Project Operations/Maintenance and Repairs	15,950.00
73997	07/25/23	wil007	Jul-23	Patrick Williamson	Employee Benefits, Expenses	188.25
<b>Total</b>						<b><u>\$981,131.25</u></b>
EFT	07/07/23	myp001	07/07/23	June 9th Payroll	4110-101-000	84.45
EFT	07/21/23	myp001	07/21/23	July 21st Payroll	4110-101-000	84.45
Dir.Dep.	07/07/23	---	Payroll Expense-Net	July 7th Payroll	4010-101-000	34,679.18
EFT	07/07/23	int002	Internal Rev.Serv	July 7th Federal Withholding	2001-101-000	11,726.57
EFT	07/07/23	mnd001	MN Revenue	July 7th State Withholding	2003-101-000	1,953.36
EFT	07/07/23	per001	PERA	July 7th PERA	2011-101-000	6,222.86
EFT	07/07/23	emp002	Empower Retirement	Employee Def. Comp. Contributions	2016-101-000	1,653.00
EFT	07/07/23	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	857.00
Dir.Dep.	07/21/23	---	Payroll Expense-Net	July 21st Payroll	4010-101-000	35,964.73
EFT	07/21/23	int002	Internal Rev.Serv	July 21st Federal Withholding	2001-101-000	12,327.25
EFT	07/21/23	mnd001	MN Revenue	July 21st State Withholding	2003-101-000	2,062.86
EFT	07/21/23	per001	PERA	July 21st PERA	2011-101-000	6,459.79
EFT	07/21/23	emp002	Empower Retirement	Employee Def. Comp. Contributions	2016-101-000	1,653.00
EFT	07/21/23	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	857.00
<b>Payroll/Benefits:</b>						<b><u>\$116,585.50</u></b>
<b>Total</b>						<b><u>Accounts Payable/Payroll/Benefits:</u></b> <b><u>\$1,097,716.75</u></b>

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From July 1, 2023 to July 31, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
07/05/23	EFT	hea002	HealthPartners	4040-101-000	Employee Benefits	\$12,889.29	
07/01/23	EFT	met008	MetLife-Group Benefits	4040-101-000	Employee Benefits	1,560.29	
07/24/23	EFT	voy001	USBank Voyager Fleet Systems	4830-101-000	Vehicle Fuel	642.58	
07/01/23	73828V	gra001	Rick Gravrok	4372-101-000	Events	(200.00)	Void
06/29/23	73925	met014	Metro Transit	4630-520-000	Construction/Imp. Flood Damage Reduction Fund	372,832.28	
07/12/23	73926	ada002	Adam's Pest Control, Inc.	4342-101-000	Utilities/Building Services Contracts	94.72	
07/12/23	73927	aws001	AWS Service Center	4342-101-000	Utilities/Building Services Contracts	318.67	
07/12/23	73928	con005	Contree Sprayer & Equip. Co., LLC	4670-101-000	Natural Resources Program	67.30	
07/12/23	73929	esr001	ESRI	4170-101-000	GIS System Maintenance and Equipment	1,375.00	
07/12/23	73930	fir001	First Student, Inc. #22157	4370-101-000	Education	231.44	
07/12/23	73931	fle001	Flemings Auto Service	4820-101-000	Vehicle Maintenance	34.34	
07/12/23	73932	gra001	Rick Gravrok	4372-101-000	Events	200.00	
07/12/23	73933	hom001	Home Depot Credit Services			232.83	
				4530-101-000	Water Quality Monitoring - Staff		121.18
				4670-101-000	Natural Resources Program		97.40
				4630-516-000	Construction Improvements/Project Maintenance and Repairs		14.25
07/12/23	73934	inn002	Innovative Office Solutions LLC	4320-101-000	Office Supplies	353.37	
07/12/23	73935	met004	Metro Sales, Inc.	4335-101-000	Copier Lease	444.00	
07/12/23	73936	mid001	Quicksilver Express Courier	4320-101-000	Office Supplies	84.73	
07/12/23	73937	mon001	Monarch Bus Service	4372-101-000	Events	1,080.00	
07/12/23	73938	ncp001	NCPERS Group Life Ins.	4040-101-000	Employee Benefits	16.00	
07/12/23	73939	pac001	Pace Analytical Services, Inc.	4530-101-000	Water Quality Monitoring - Staff	12,708.00	
07/12/23	73940	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Building Service Contracts	34.00	
07/12/23	73941	sai001	Saint Paul Media	4371-101-000	Communications and Marketing	50.00	
07/12/23	73942	sch009	Schlomka Services, LLC	4650-516-000	Project Operations/Maintenance and Repairs	4,480.00	
07/12/23	73943	stu001	Studio Lola	4320-101-000	Office Supplies	756.44	
07/12/23	73944	tim002	Timesaver Off-Site Secretarial, Inc.	4365-101-000	Committee/Board Meeting Expenses	234.50	
07/12/23	73945	usb005	US Bank Equipment Finance	4335-101-000	Copier Lease	294.00	
07/12/23	73946	vik001	Viking Industrial Center	4530-101-000	Water Quality Monitoring - Staff	99.00	
07/12/23	73947	voy001	US Bank Voyager Fleet Sys.	4830-101-000	Vehicle Fuel	642.58	
07/25/23	73948	bar001	Barr Engineering			164,505.33	
				4121-101-000	Engineering Admin		11,202.50
				4123-101-000	Engineering Review		3,615.50
				4129-101-000	Project Feasibility		7,242.00
				4129-101-000	Project Feasibility		8,829.50
				4128-520-000	Project Feasibility		6,724.50
				4129-101-000	Project Feasibility		4,707.00
				4129-101-000	Project Feasibility		2,516.00
				4129-101-000	Project Feasibility		2,073.50
				4520-101-000	WQM-Engineering		1,871.60
				4520-101-000	WQM-Engineering		75.00
				4124-101-000	Eng. Permit Review		5,685.00
				4661-101-000	SLMP/TMDL Studies		26.00
				4695-101-000	Research Projects		2,073.00
				4695-101-000	Research Projects		17,639.00
				4695-101-000	Research Projects		8,807.61
				4650-101-000	Project Operations		3,527.50

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From July 1, 2023 to July 31, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
				4128-518-000	Engineering -Targeted Retrofit	4,224.06
				4128-518-000	Engineering -Targeted Retrofit	13,414.12
				4128-518-000	Engineering -Targeted Retrofit	2,934.00
				4682-529-000	Stewardship Grant Program	5,445.50
				4128-518-000	Engineering -Targeted Retrofit	6,796.50
				4128-518-000	Engineering -Targeted Retrofit	5,336.50
				4129-537-000	Driveway Fish Creek Tributary	2,293.00
				4128-516-000	Eng. Projects-Maint & Repair	14,256.44
				4128-516-000	Eng. Projects-Maint & Repair	17,735.00
				4128-516-000	Eng. Projects-Maint & Repair	5,455.00
07/25/23	73949	bau002	Christopher Bauleke	4682-529-000	Stewardship Grant Program	733.30
07/25/23	73950	blo001	Benefit Extras	4040-101-000	Employee Benefits	134.00
07/25/23	73951	cad001	Zayo Group, LLC	4530-101-000	Water Quality Monitoring - Staff	198.25
07/25/23	73952	cit009	City of Little Canada	4342-101-000	Utilities/Building Services Contracts	151.81
07/25/23	73953	dau001	Jennifer Dauer			37.79
				4020-101-000	Employee Expenses	30.79
				4670-101-000	Natural Resources Program	7.00
07/25/23	73954	dav003	Davey Resource Group, Inc.	4630-516-000	Construction Improvements/Project Maintenance & Repair	6,146.00
07/25/23	73955	dom001	Jake Donahue	4682-529-000	Stewardship Grant Program	300.00
07/25/23	73956	fir001	Escape Climbing	4682-529-000	Stewardship Grant Program	33,303.05
07/25/23	73957	fit004	Mary Fitzgerald			258.94
				4040-101-000	Employee Benefits	116.50
				4020-101-000	Employee Expense	132.44
				4350-101-000	Training and Education	10.00
07/25/23	73958		Emily Kamin	4040-101-000	Employee Benefits	40.00
07/25/23	73959	gal001	Galowitz Olson, PLLC	4131-101-000	Attorney General	980.00
07/25/23	73960	gil001	Gilbert Mechanical Contractors, Inc.	4343-101-000	Building / Site Maintenance	1,075.88
07/25/23	73961	hau002	Marnie Hausauer	4682-529-000	Stewardship Grant Program	15,000.00
07/25/23	73962	hiw001	Hiway Credit Union	4682-529-000	Stewardship Grant Program	5,750.00
07/25/23	73963	hut001	Josh Hutchinson	4682-529-000	Stewardship Grant Program	6,337.50
	73964	inn002	Innovative Office Solutions, LLC.	4343-101-000	Office Supplies	76.34
07/25/23	73965	int001	Office of MN, IT Services	4310-101-000	Telephone	59.34
07/25/23	73966	jac005	Brian Jacobson	4682-529-000	Stewardship Grant Program	1,250.00
07/25/23	73967	kor001	Eric Korte	4040-101-000	Employee Benefits	320.00
07/25/23	73968	kwi001	Kwik Trip, Inc	2024-101-000	Escrow Refunds	4,845.00
07/25/23	73969	lan009	Landbridge Ecological	4630-516-000	Construction Improvements/Project Maintenance & Repair	1,356.60
07/25/23	73970	lea001	League of MN Cities Ins. Trust WC	4480-101-000	Insurance	12,796.00
07/25/23	73971	lea003	L. Tracy Leavenworth	4370-101-000	Education	2,155.15
07/25/23	73972	mel001	Michelle L. Melser			101.31
				4040-101-000	Employee Benefits	40.00
				4020-101-000	Employee Expenses	61.31
07/25/23	73973	met013	Metro-INET	4325-101-000	Roseville IT Services/Web Site/Software/Licenses	6,859.00
07/25/23	73974	min010	MN Public Facilities Authority	4700-526-000	Loan Repayment	88,720.53
07/25/23	73975	mor003	Morrie's Auto Group	2024-101-000	Escrow Refunds	29,845.00
07/25/23	73976	nel006	Nicholas Nelson			29.91
				4020-101-000	Employee Expenses	18.34
				4530-101-00	Water Quality Monitoring - Staff	11.57

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From July 1, 2023 to July 31, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
07/25/23	73977	nel007	Katrina Nelson	4020-101-000	Employee Expenses	22.93	
07/25/23	73978	pac001	Pace Analytical Services, Inc.	4530-101-000	Water Quality Monitoring - Staff	11,196.00	
07/25/23	73979	pas002	Carol Passi			159.21	
				4020-101-000	Employee Expenses		119.21
				4040-101-000	Employee Benefits		40.00
07/25/23	73980	pet004	Ashley N. Petel	4020-101-000	Employee Expenses	115.94	
07/25/23	73981	ram002	Ramsey County	4682-529-000	Stewardship Grant Program	17,731.25	
07/25/23	73982	red002	Redpath & Company, LLC.	4110-101-000	Accounting	3,892.17	
07/25/23	73983	res003	Resource Environmental Solutions, LLC	4682-529-000	Stewardship Grant Program	14,787.48	
07/25/23	73984	roc001	Rock Leaf Water Environmental LLC	4630-516-000	Construction Improvements/Project Maintenance & Repair	4,668.97	
07/25/23	73985	sho004	Shoreline Landscaping	4630-518-000	Communications and Marketing	100,668.67	
07/25/23	73986	sim001	Emily Simmons			201.26	
				4020-101-000	Employee Expenses		161.26
				4040-101-000	Employee Benefits		40.00
07/25/23	73987	smi003	Iris Smith	4682-529-000	Stewardship Grant Program	2,250.00	
07/25/23	73988	sod001	Nicole Soderholm			152.05	
				4040-101-000	Employee Benefits		40.00
				4020-101-000	Employee Expenses		112.05
07/25/23	73989	ste002	Emily Stewart	4682-529-000	Stewardship Grant Program	2,850.00	
07/25/23	73990	str004	Warren's Striping	4343-101-000	Building/Site Maintenance	225.00	
07/25/23	73991	stu001	Studio Lola	4040-101-000	Employee Benefits	173.47	
07/25/23	73992	svo001	Thomas Svoboda	4682-529-000	Stewardship Grant Program	2,437.50	
07/25/23	73993	til002	Joseph S. Tillotson			167.49	
				4040-101-000	Employee Benefits		40.00
				4020-101-000	Employee Expenses		8.52
				4670-101-000	Natural Resources Program		118.97
07/25/23	73994	usb002	U.S. Bank			4,876.14	
				4365-101-000	Committee/Board Meeting Expenses		77.02
				4365-101-000	Committee/Board Meeting Expenses		98.81
				4530-101-000	Water Quality Monitoring-Staff		86.72
				4365-101-000	Committee/Board Meeting Expenses		74.52
				4320-101-000	Office Supplies		27.00
				4320-101-000	Office Supplies		18.77
				4320-101-000	Office Supplies		14.20
				4325-101-000	Roseville IT Services/Web Site/Software/Licenses		93.21
				4320-101-000	Office Supplies		97.00
				4530-101-000	Water Quality Monitoring-Staff		141.90
				4371-101-000	Communications and Marketing		468.00
				4350-101-000	Training and Education		250.00
				4350-101-000	Training and Education		131.94
				4350-101-000	Training and Education		131.94
				4350-101-000	Training and Education		30.00
				4697-101-000	Health and Safety Program		27.58
				4350-101-000	Training and Education		395.82
				4670-101-000	Natural Resources Program		69.99
				4170-101-000	GIS System Maintenance and Equipment		707.00
				4630-516-000	Construction Improvements/Project Maintenance & Repair		78.74
				4338-101-000	Dues and Publications		139.00
				4371-101-000	Communications and Marketing		487.00
				4697-101-000	Health and Safety Program		67.04
				4343-101-000	Building / Site Maintenance		45.66

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From July 1, 2023 to July 31, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount
				4530-101-000	Water Quality Monitoring-Staff	160.00
				4371-101-000	Communications and Marketing	6.89
				4650-101-000	Project Operations	332.68
				4350-101-000	Training and Education	30.00
				4342-101-000	Utilities/Building Services Contracts	93.48
				4820-101-000	Vehicle Maintenance	173.48
				4697-101-000	Health and Safety Program	38.85
				4371-101-000	Communications and Marketing	39.50
				4650-101-000	Project Operations	77.61
				4040-101-000	Employee Benefits	9.95
				4040-101-000	Employee Benefits	152.90
				4320-101-000	Office Supplies	1.94
07/25/23	73995	was002	Washington Conservation District			3,496.08
				4530-101-000	Water Quality Monitoring - Staff	126.75
				4683-101-000	Outside Program Support	3,369.33
07/25/23	73996	wat003	Water Storage Tanks Inc.	4370-101-000	Project Operations/Project Maintenance & Repair	15,950.00
07/25/23	73997	wil007	Patrick Williamson			188.25
				4020-101-000	Employee Benefits	40.00
				4040-101-000	Employee Expenses	69.76
				4670-101-000	Natural Resources Program	78.49
			<b>Total</b>			<b><u>\$981,131.25</u></b>
07/07/23	EFT	myp001	July 7th Payroll	4110-101-000	July 7th Payroll	84.45
07/21/23	EFT	myp001	July 21st Payroll	4110-101-000	July 21st Payroll	84.45
07/07/23	Dir.Dep.	---	July 7th Payroll	4010-101-000	July 7th Payroll	34,679.18
07/07/23	EFT	int002	July 7th Federal Withholding	2001-101-000	July 7th Federal Withholding	11,726.57
07/07/23	EFT	mnd001	July 7th State Withholding	2003-101-000	July 7th State Withholding	1,953.36
07/07/23	EFT	per001	July 7th PERA	2011-101-000	July 7th PERA	6,222.86
07/07/23	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	1,653.00
07/07/23	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	857.00
07/21/23	Dir.Dep.	---	July 21st Payroll	4010-101-000	July 21st Payroll	35,964.73
07/21/23	EFT	int002	July 21st Federal Withholding	2001-101-000	July 21st Federal Withholding	12,327.25
07/21/23	EFT	mnd001	July 21st State Withholding	2003-101-000	July 21st State Withholding	2,062.86
07/21/23	EFT	per001	July 21st PERA	2011-101-000	July 21st PERA	6,459.79
07/21/23	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	1,653.00
07/21/23	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	857.00
					<b>Payroll/Benefits:</b>	<b><u>\$116,585.50</u></b>
			<b>Total</b>		<b>Accounts Payable/Payroll/Benefits:</b>	<b><u>\$1,097,716.75</u></b>






**Summary of Professional Engineering Services During the Period  
June 10, 2023 through July 14, 2023**

	Total Engineering Budget (2023)	Total Fees to Date (2023)	Budget Balance (2023)	Fees During Period	District Accounting Code	Plan Implementation Task Number
<b>Engineering Administration</b>						
General Engineering Administration	\$87,000.00	\$46,655.93	\$40,344.07	\$11,202.50	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$703.00	\$1,297.00	\$0.00	4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$702.50	\$19,297.50	\$0.00	4129-101	DW-11
Topical Workshop, Education, and Planning	\$25,000.00	\$3,159.00	\$21,841.00	\$0.00	4129-101	DW-13
<b>Engineering Review</b>						
Engineering Review	\$70,000.00	\$30,509.50	\$39,490.50	\$3,615.50	4123-101	DW-13
<b>Project Feasibility Studies</b>						
Emergency Response Plans (communication with cities from 2021 and 2022 efforts)	\$15,000.00	\$920.00	\$14,080.00	\$0.00	4129-101	DW-19
Kohlman Creek flood damage reduction feasibility study	\$75,000.00	\$32,132.51	\$42,867.49	\$7,242.00	4129-101	DW-9, KC-2, BELT-3
Kohlman Creek- Wakefield Lake Diversion Planning and Design	\$111,600.00	\$10,000.50	\$101,599.50	\$0.00	4129-101	DW-9, KC-2, BELT-3
Improvements to County Ditch 17	\$5,000.00	\$250.00	\$4,750.00	\$0.00	4129-101	DW-9, BELT-3
Improvements to Phalen Village	\$5,000.00	\$400.00	\$4,600.00	\$0.00	4129-101	DW-9, BELT-3
Ames Lake Technical Assistance and Project Planning with St. Paul	\$40,000.00	\$12,715.50	\$27,284.50	\$8,829.50	4129-101	DW-9, BELT-3
Resiliency Study for non-Beltline tributary areas (pre-planning study and evaluation of existing data)	\$150,000.00	\$40,317.50	\$109,682.50	\$6,724.50	4128-520	DW-9
Evaluate compliance with South Metro Mississippi River TSS TMDL	\$2,000.00	\$527.00	\$1,473.00	\$0.00	4129-101	MR-2
Owasso Basin area/North Star Estates improvements (with City of Little Canada)	\$30,000.00	\$25,764.87	\$4,235.13	\$4,707.00	4129-101	GC-3
Street Sweeping	\$20,000.00	\$13,932.50	\$6,067.50	\$2,516.00	4129-101	DW-6, DW-15
Retrofit Inventory	\$20,000.00	\$11,704.50	\$8,295.50	\$2,073.50	4129-101	DW-17, DW-20
Wetland Restoration Workshop, Education, and Planning	\$5,000.00	\$4,623.00	\$377.00	\$0.00	4129-101	DW-8, DW-13
Contingency*	\$30,000.00				4129-101	
<b>GIS Maintenance</b>						
GIS Maintenance	\$5,000.00	\$0.00	\$5,000.00	\$0.00	4170-101	DW-13
<b>Monitoring Water Quality/Project Monitoring</b>						
Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$90.00	\$9,910.00	\$0.00	4520-101	DW-2
Annual WQ Report Assistance	\$12,000.00	\$8,960.50	\$3,039.50	\$0.00	4520-101	DW-2
Special Project BMP Monitoring	\$25,000.00	\$9,020.66	\$15,979.34	\$1,871.60	4520-101	DW-12
Grass Lake Berm Wetland Monitoring	\$12,000.00	\$11,960.00	\$40.00	\$75.00	4520-101	DW-5, DW-8
Battle Creek Monitoring to address TMDL	\$15,000.00	\$0.00	\$15,000.00	\$0.00	4520-101	DW-1, DW-2
<b>Permit Processing, Inspection and Enforcement</b>						
Permit Application Inspection and Enforcement	\$10,000.00	\$0.00	\$10,000.00	\$0.00	4122-101	DW-7
Permit Application Review	\$59,000.00	\$26,599.00	\$32,401.00	\$5,685.00	4124-101	DW-7
<b>Lake Studies/TMDL Reports</b>						
West Vadnais Lake Incorporation	\$15,000.00	\$75.00	\$14,925.00	\$0.00	4661-101	DW-2
2023 Grant Applications	\$40,000.00	\$0.00	\$40,000.00	\$0.00	4661-101	DW-13
WMP Updates - Including Implementation Plan Updates if needed	\$20,000.00	\$0.00	\$20,000.00	\$0.00	4661-101	DW-13
Prioritization of water quality projects from subwatershed feasibility studies	\$5,000.00	\$39.00	\$4,961.00	\$0.00	4661-101	DW-20
Carver Ponds Internal Load Reduction	\$12,000.00	\$415.00	\$11,585.00	\$26.00	4661-101	DW-12
Contingency for Lake Studies	\$22,500.00	\$0.00	\$22,500.00	\$0.00		
<b>Research Projects</b>						
New Technology Mini Case Studies (average 6 per year)	\$15,000.00	\$8,177.00	\$6,823.00	\$2,073.00	4695-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$5,000.00	\$150.00	\$4,850.00	\$0.00	4695-101	DW-12
Kohlman Lake Aquatic Plant Management Effects Study	\$85,705.00	\$41,303.31	\$44,401.69	\$17,639.00	4695-101	DW-12
Shallow Lake Aeration Study	\$40,000.00	\$14,711.99	\$25,288.01	\$8,807.61	4695-101	DW-12
<b>Project Operations</b>						
2023 Tanners Alum Facility Monitoring	\$17,000.00	\$9,842.50	\$7,157.50	\$3,527.50	4650-101	TaL-3
Phalen/Keller and Twin Operations Support & Communications	\$5,000.00	\$0.00	\$5,000.00	\$0.00	4650-101	DW-5, DW-13
Lake Level Station Operation and Maintenance (add rain gauges?)	\$50,000.00	\$0.00	\$50,000.00	\$0.00	4650-101	DW-5
<b>Capital Improvements</b>						
Tanners Outlet	\$5,000.00	\$1,877.00	\$3,123.00	\$0.00	4128-520	DW-9
Woodbury Target	\$180,000.00	\$31,018.56	\$148,981.44	\$4,224.06	4128-518	DW-6
Roosevelt Homes	\$77,100.00	\$28,152.62	\$48,947.38	\$13,414.120	4128-518	DW-6
Targeted Retrofit Projects 2023	\$150,000.00	\$35,968.81	\$114,031.19	\$2,934.00	4128-518	DW-6
Stewardship Grant Program	\$75,000.00	\$21,549.00	\$53,451.00	\$5,445.50	4682-529	DW-6
West Industrial Park Berm and associated improvements	\$300,000.00	\$0.00	\$300,000.00	\$0.00	4128-520	GC-3
Lake Emily Subwatershed BMP	\$160,000.00	\$155,798.02	\$4,201.98	\$6,796.50	4128-518	LE-3
Pioneer Park Stormwater Reuse	\$151,200.00	\$75,438.54	\$75,761.46	\$5,336.50	4128-518	DW-6
Double Driveway and Fish Creek Tributary Improvements	\$112,200.00	\$37,404.99	\$74,795.01	\$2,293.00	4129-537	FC-2
<b>CIP Project Repair &amp; Maintenance</b>						
Routine CIP Inspection and Unplanned Maintenance Identification	\$125,000.00	\$67,686.48	\$57,313.52	\$14,256.44	4128-516	DW-5
Beltline 5-year Inspection	\$15,000.00	\$32,766.00	-\$17,766.00	\$17,735.00	4128-516	BELT-2
District Inspection Standardization	\$0.00	\$0.00	\$0.00	\$0.00	4128-516	DW-5
2023 CIP Maintenance and Repairs	\$165,000.00	\$87,779.08	\$77,220.92	\$5,455.00	4128-516	DW-5

Barr declares under the penalties of Law that this Account, **\$164,505.33**  
Claim, or Demand is just and that no part has been paid.

  
\_\_\_\_\_  
Bradley J. Lindaman, Vice President

2022 SCHOOLS & FAITH-BASED SITES BMP RETROFITS  
RAMSEY-WASHINGTON METRO WATERSHED DISTRICT  
Progress Payment Application No. 4-FINAL

1.	Completed to Date:	<u>\$ 590,624.89</u>	
2.	Less Previously Billed:	<u>\$ 576,049.89</u>	
3.	Amount Completed This Period:		<u>\$ 14,575.00</u>
4.	Amount Previously Retained:	<u>\$ (29,212.42)</u>	
5.	Amount Retained This Period (See Note 1):		<u>\$ -</u>
6.	Total Amount Retained (See Note 2):	<u>\$ (29,212.42)</u>	
7.	Retainage Released Through This Period:		<u>\$ 29,212.42</u>
8.	Less Total Retainage Remaining:	<u>\$ -</u>	
	Less Amounts Previously Paid		
9.	(Pay Application Nos. <u>1, 2, 3</u> )	<u>\$ 546,837.47</u>	
10.	Amount Due This Period:		<u><u>\$ 43,787.42</u></u>

Note 1: At rate of 10% until Completed to Date equals 50% of current Contract Price and a rate of 0% thereafter.

Note 2: Maximum amount is 5% of current Contract Price (Original Contract Price is \$477,624.50; adjusted Contract Price to date is \$584,248.39)

SUBMITTED BY:

Name: Stephan McLafferty Date: 06/12/2023  
Title: President  
Contractor: Shoreline Landscaping, Inc.

Signature: 

RECOMMENDED BY:

Name: Marcy Bean Date: 6/1/2023  
Title: Project Manager  
Engineer: Barr Engineering Company

Signature: 

APPROVED BY:

Name: Lawrence Swope Date: \_\_\_\_\_  
Title: President  
Owner: Ramsey-Washington Metro Watershed District

Signature:



ST PASCAL BAYLON CATHOLIC CHURCH				BID TOTAL		INVOICE #3826, 11/9/22			INVOICE #3967, 5/30/23		
CONSTRUCTION CONTRACT AMOUNT FOR PROGRESS PAYMENT						TOTAL COMPLETED THROUGH THIS PERIOD			TOTAL COMPLETED THROUGH THIS PERIOD		
Bid Item	Description	Unit	Estimated Quantity	Unit Price	Extended Cost	Unit Price	Actual Quantity*	Extended Cost	Unit Price	Actual Quantity*	Extended Cost
2.A	Mobilization/Demobilization/Traffic Control/Erosion Control	L.S.	1	\$15,000.00	\$15,000.00	\$15,000.00	1	\$15,000.00	\$15,000.00		\$0.00
2.B	Construction Entrance (P)	EA	1	\$1,500.00	\$1,500.00	\$1,500.00	1	\$1,500.00	\$1,500.00		\$0.00
2.C	Inlet Protection	EA	4	\$150.00	\$600.00	\$150.00	4	\$600.00	\$150.00		\$0.00
2.D	6" Sediment Control Log	L.F.	520	\$6.00	\$3,120.00	\$6.00	520	\$3,120.00	\$6.00		\$0.00
2.E	Remove Chain Link Fence	L.F.	265	\$5.00	\$1,325.00	\$5.00	265	\$1,325.00	\$5.00		\$0.00
2.F	Sawcut Pavement	L.F.	465	\$2.50	\$1,162.50	\$2.50	474	\$1,185.00	\$2.50		\$0.00
2.G	Remove and Dispose of Bituminous Pavement	S.Y.	1270	\$8.00	\$10,160.00	\$8.00	1170	\$9,360.00	\$8.00		\$0.00
2.H	Remove and Dispose of Concrete Curb and Gutter	L.F.	40	\$10.00	\$400.00	\$10.00	0	\$0.00	\$10.00		\$0.00
2.I	Excavate, Haul, and Dispose of Materials (P)	C.Y.	654	\$25.00	\$16,350.00	\$25.00	1100	\$27,500.00	\$25.00		\$0.00
2.J	Pre-Cast Concrete Catch Basin, Complete (48") (ST-02)	EA	1	\$2,500.00	\$2,500.00	\$7,500.00	1	\$7,500.00	\$2,500.00		\$0.00
2.K	Precast Concrete Manhole, Complete (60") (ST-01)	EA	1	\$7,500.00	\$7,500.00	\$8,500.00	1	\$8,500.00	\$7,500.00		\$0.00
2.L	Precast Concrete Tree Opening with Attached Catch Basin	EA	3	\$15,000.00	\$45,000.00	\$15,000.00	3	\$45,000.00	\$15,000.00		\$0.00
2.M	Pre-Cast Concrete Catch Basin with Base Slab, Complete	EA	1	\$2,500.00	\$2,500.00	\$2,500.00	0	\$0.00	\$2,500.00		\$0.00
2.N	12" RCP	L.F.	70	\$80.00	\$5,600.00	\$80.00	70	\$5,600.00	\$80.00		\$0.00
2.O	12" SDR35 PVC or dual wall CPP, slotted	L.F.	420	\$30.00	\$12,600.00	\$30.00	445	\$13,350.00	\$30.00		\$0.00
2.P	12" SDR35 PVC or dual wall CPP, solid	L.F.	10	\$30.00	\$300.00	\$30.00	5	\$150.00	\$30.00		\$0.00
2.Q	6" to 12" SDR35 PVC Cleanout w/Cover (tree trench)	EA	2	\$2,000.00	\$4,000.00	\$2,000.00	3	\$6,000.00	\$2,000.00		\$0.00
2.R	6" to 12" SDR35 PVC Overflow Pipe w/Atrium Inlet (tree trench)	EA	3	\$900.00	\$2,700.00	\$900.00	3	\$2,700.00	\$900.00		\$0.00
2.S	4" SDR35 PVC or dual wall CPP, slotted	L.F.	37	\$10.00	\$370.00	\$10.00	37	\$370.00	\$10.00		\$0.00
2.T	4" SDR35 PVC DrainTile Cleanout w/ Cover	EA	2	\$300.00	\$600.00	\$300.00	2	\$600.00	\$300.00		\$0.00
2.U	4" SDR26 PVC, solid	L.F.	24	\$10.00	\$240.00	\$10.00	24	\$240.00	\$10.00		\$0.00
2.V	Connect new Manhole to existing pipes	EA	1	\$3,500.00	\$3,500.00	\$3,500.00	0	\$0.00	\$3,500.00		\$0.00
2.W	Remove pavement markings	L.S.	1	\$1,000.00	\$1,000.00	\$1,000.00	1	\$1,000.00	\$1,000.00		\$0.00
2.X	Bituminous Base Course (2" Depth)	S.Y.	1270	\$16.00	\$20,320.00	\$16.00	1000	\$16,000.00	\$16.00		\$0.00
2.Y	Bituminous Wearing Course (2" Depth), Including Tack Coat	S.Y.	1270	\$16.00	\$20,320.00	\$16.00	1000	\$16,000.00	\$16.00		\$0.00
2.Z	Painted Pavement Markings	L.S.	1	\$1,500.00	\$1,500.00	\$1,500.00	1	\$1,500.00	\$1,500.00		\$0.00
2.AA	MnDOT B618 Concrete Curb and Gutter	L.F.	200	\$58.00	\$11,600.00	\$58.00	120	\$6,960.00	\$58.00		\$0.00
2.BB	Concrete Valley Gutter	S.Y.	50	\$150.00	\$7,500.00	\$150.00	50	\$7,500.00	\$150.00		\$0.00
2.CC	Concrete Walks	S.F.	140	\$20.00	\$2,800.00	\$20.00	0	\$0.00	\$20.00		\$0.00
2.DD	Limestone Retaining Wall	S.F.F.	126	\$120.00	\$15,120.00	\$120.00	264	\$31,680.00	\$120.00		\$0.00
2.EE	6" Chain Link Fence	L.F.	260	\$50.00	\$13,000.00	\$50.00	0	\$0.00	\$50.00		\$0.00
2.FF	Splash Block Assembly	EA	1	\$1,500.00	\$1,500.00	\$1,500.00	1	\$1,500.00	\$1,500.00		\$0.00
2.GG	Class 5 Aggregate Base	TON	302	\$78.00	\$23,556.00	\$78.00	463	\$36,114.00	\$78.00		\$0.00
2.HH	2"-4" Clean Washed Angular Granite	TON	163	\$120.00	\$19,560.00	\$120.00	369	\$44,280.00	\$120.00		\$0.00
2.II	Coarse Filter Aggregate (P)	C.Y.	208	\$120.00	\$24,960.00	\$120.00	311	\$37,320.00	\$120.00		\$0.00
2.JJ	Iron Enhanced Sand	C.Y.	8	\$180.00	\$1,440.00	\$180.00	10	\$1,800.00	\$180.00		\$0.00
2.KK	Filtration Soil	C.Y.	57	\$80.00	\$4,560.00	\$80.00	90	\$7,200.00	\$80.00		\$0.00
2.LL	Planting Soil	C.Y.	29	\$38.00	\$1,102.00	\$38.00	24	\$912.00	\$38.00		\$0.00
2.MM	Soil Loosening (P)	S.Y.	442	\$4.00	\$1,768.00	\$4.00	442	\$1,768.00	\$4.00		\$0.00
2.NN	MnDOT Type 5 Woven Geotextile (P)	S.Y.	1080	\$4.50	\$4,860.00	\$4.50	1000	\$4,500.00	\$4.50		\$0.00
2.OO	MnDOT Type 5 Non-Woven Geotextile (P)	S.Y.	178	\$4.50	\$801.00	\$4.50	188	\$846.00	\$4.50		\$0.00
2.PP	Perennials - 1 Gallon (P)	EA	168	\$18.00	\$3,024.00	\$18.00	168	\$3,024.00	\$18.00		\$0.00
2.QQ	Deciduous Tree (#20 Cont.) (P)	EA	3	\$800.00	\$2,400.00	\$800.00	0	\$0.00	\$800.00	7	\$5,600.00
2.RR	Tree Guard	EA	3	\$800.00	\$2,400.00	\$800.00	0	\$0.00	\$800.00	3	\$2,400.00
2.SS	Twice-Shredded Hardwood Mulch (P)	C.Y.	5	\$80.00	\$400.00	\$80.00	5	\$400.00	\$80.00		\$0.00
C.O.2.B	Plumbing/Sewer Subcontractor (CO#2)	L.S.				\$29,574.00	1	\$29,574.00	\$29,574.00		\$0.00
C.O.4.B.1	Decorative Metal Fence	L.F.				\$81.20	170	\$13,804.00	\$81.20		\$0.00
C.O.4.B.2	Shrub Planting	EA				\$75.00	0	\$0.00	\$75.00	13	\$975.00
C.O.4.B.3	3/8" Grey Trap Rock Mulch	C.Y.				\$560.00	0	\$0.00	\$560.00	10	\$5,600.00
C.O.4.B.4	6' Pre-cast Concrete Wheel Stops	EA				\$281.25	8	\$2,250.00	\$281.25		\$0.00
C.O.4.B.5	6" Topsoil & Seed & Erosion Blanket	S.Y.				\$50.00	27	\$1,350.00	\$50.00		\$0.00
C.O.4.B.6	Subsoiling Landscape Bed	CY				\$38.00	11	\$418.00	\$38.00		\$0.00
	TOTAL			BID TOTAL	\$322,218.50	TOTAL (PAY APPLICATION #3)	\$417,300.00	TOTAL (PAY APPLICATION #4)	\$14,575.00		

\* NOTE: Items noted as **BOLD** indicate a change from original bid quantities.


**Arbogast Underground Stormwater Filter  
Progress Payment #1**

1.0	Total Completed Through This Period:	<u>\$59,875.00</u>		
2.0	Total Completed Previously Completed:		<u>\$0.00</u>	
3.0	Total Completed This Period:			<u>\$59,875.00</u>
4.0	Amount Previously Retained:		<u>\$0.00</u>	
5.0	Amount Retained This Period (See Note 1):			<u>\$2,993.75</u>
6.0	Total Amount Retained (See Note 1):		<u>\$2,993.75</u>	
7.0	Retainage Released Through This Period:			<u>\$0.00</u>
8.0	Total Retainage Remaining:		<u>\$2,993.75</u>	
9.0	Amounts Previously Paid:	<u>\$0.00</u>		
10.0	Amount Due This Estimate:			<u><u>\$56,881.25</u></u>

Note 1: At rate of 5%.

SUBMITTED BY:

Name: Stephan McLafferty Date: 07/20/2023  
Title: President  
Contractor: Shoreline Landscaping & Contracting

Signature: 

RECOMMENDED BY:

Name: Leslie DellAngelo Date: 7/18/2023  
Title: Project Engineer  
Engineer: Barr Engineering Company

Signature: 

APPROVED BY:

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

Signature: \_\_\_\_\_

**Arbogast Underground Stormwater Filter**  
**Ramsey-Washington Metro Watershed District**  
**Summary of Work completed through July 18, 2023 for Progress Payment #1**

							(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Line Item	Item Code	Item Description	UofM	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
1	A	Mobilization/Demobilization	LS	1	\$43,500.00	\$43,500.00	0.50	\$21,750.00	0.00	\$0.00	0.50	\$21,750.00
2	B	Traffic and Pedestrian Safety Control Measures	LS	1	\$8,500.00	\$8,500.00	0.50	\$4,250.00	0.00	\$0.00	0.50	\$4,250.00
3	C	Control of Water	LS	1	\$10,000.00	\$10,000.00	0.50	\$5,000.00	0.00	\$0.00	0.50	\$5,000.00
4	D	Erosion and Sediment Control	LS	1	\$5,000.00	\$5,000.00	0.50	\$2,500.00	0.00	\$0.00	0.50	\$2,500.00
5	E	Salvage and Reinstall Topsoil (P)	CY	100	\$25.00	\$2,500.00	0	\$0.00	0	\$0.00	0	\$0.00
6	F	Salvage and Reinstall Landscape Boulders	LS	1	\$800.00	\$800.00	0	\$0.00	0	\$0.00	0	\$0.00
7	G	Sawcut and Remove Concrete Curb	LF	150	\$3.00	\$450.00	0	\$0.00	0	\$0.00	0	\$0.00
8	H	Sawcut and Remove Asphalt Road Pavement	SY	125	\$3.00	\$375.00	0	\$0.00	0	\$0.00	0	\$0.00
9	H	Sawcut and Remove Concrete and Asphalt Walk Pavement	SY	425	\$15.00	\$6,375.00	425	\$6,375.00	0	\$0.00	425	\$6,375.00
10	I	Common Excavation and Off-Site Disposal (P)	CY	800	\$25.00	\$20,000.00	800	\$20,000.00	0	\$0.00	800	\$20,000.00
11	J	Compacted Backfill (P)	CY	300	\$28.00	\$8,400.00	0	\$0.00	0	\$0.00	0	\$0.00
12	K	Connect Structure to Existing Pipes	EA	2	\$2,500.00	\$5,000.00	0	\$0.00	0	\$0.00	0	\$0.00
13	L	MH-1 (72" Precast) incl. Stop Gate	EA	1	\$28,560.00	\$28,560.00	0	\$0.00	0	\$0.00	0	\$0.00
14	L	MH-2 (48" Precast)	EA	1	\$6,350.00	\$6,350.00	0	\$0.00	0	\$0.00	0	\$0.00
15	L	MH-3 (48" Precast)	EA	1	\$6,350.00	\$6,350.00	0	\$0.00	0	\$0.00	0	\$0.00
16	L	MH-4 (48" Precast)	EA	1	\$6,350.00	\$6,350.00	0	\$0.00	0	\$0.00	0	\$0.00
17	L	MH-5 (48" Precast)	EA	1	\$6,350.00	\$6,350.00	0	\$0.00	0	\$0.00	0	\$0.00
18	L	MH-6 (72" Precast)	EA	1	\$12,630.00	\$12,630.00	0	\$0.00	0	\$0.00	0	\$0.00
19	M	18" RCP	LF	400	\$113.00	\$45,200.00	0	\$0.00	0	\$0.00	0	\$0.00
20	N	6" SCH 40 PVC Drain Pipe w/ Fittings (P)	LF	220	\$38.00	\$8,360.00	0	\$0.00	0	\$0.00	0	\$0.00
21	O	6" PVC Gate Valve	EA	4	\$1,500.00	\$6,000.00	0	\$0.00	0	\$0.00	0	\$0.00
22	P	Cast-In-Place Vault Structure	LS	1	\$283,000.00	\$283,000.00	0	\$0.00	0	\$0.00	0	\$0.00
23	Q	Precast Concrete Plank Lid	EA	10	\$10,860.00	\$108,600.00	0	\$0.00	0	\$0.00	0	\$0.00
24	R	Vault Access Manhole	EA	7	\$2,830.00	\$19,810.00	0	\$0.00	0	\$0.00	0	\$0.00
25	S	Stainless Steel Weir Plate	EA	1	\$8,960.00	\$8,960.00	0	\$0.00	0	\$0.00	0	\$0.00
26	T	Aeration Splash Block	EA	1	\$3,000.00	\$3,000.00	0	\$0.00	0	\$0.00	0	\$0.00
27	U	CC17 (Crushed Limestone) Filtration Media (P)	CY	75	\$147.00	\$11,025.00	0	\$0.00	0	\$0.00	0	\$0.00
28	V	Concrete Curb w/Compacted Base	LF	150	\$62.00	\$9,300.00	0	\$0.00	0	\$0.00	0	\$0.00
29	W	Asphalt Road Pavement w/ Compacted Base	SY	125	\$85.00	\$10,625.00	0	\$0.00	0	\$0.00	0	\$0.00
30	X	Pedestrian Ramp w/ Truncated Dome and Compacted Base (MnDOT Std. Plt.)	EA	1	\$4,500.00	\$4,500.00	0	\$0.00	0	\$0.00	0	\$0.00
31	Y	Heavy Vehicle Asphalt Pavement w/ Compacted Base	SY	100	\$91.00	\$9,100.00	0	\$0.00	0	\$0.00	0	\$0.00
32	Y	Asphalt Walk Pavement w/ Compacted Base	SY	425	\$41.30	\$17,552.50	0	\$0.00	0	\$0.00	0	\$0.00
33	Z	Painted Pavement Markings	LS	1	\$2,500.00	\$2,500.00	0	\$0.00	0	\$0.00	0	\$0.00
34	AA	Common Topsoil Borrow (MnDOT 3877-1A)	CY	50	\$48.00	\$2,400.00	0	\$0.00	0	\$0.00	0	\$0.00
35	AB	Seeding (MnDOT Low Maint. Turf Mix)	SY	1000	\$1.50	\$1,500.00	0	\$0.00	0	\$0.00	0	\$0.00
36	AC	Erosion Control Blanket	SY	1000	\$4.00	\$4,000.00	0	\$0.00	0	\$0.00	0	\$0.00
37	AD	Landscape Edging	LF	80	\$5.00	\$400.00	0	\$0.00	0	\$0.00	0	\$0.00
38	AE	Double Shredded Hardwood Mulch	CY	3	\$100.00	\$300.00	0	\$0.00	0	\$0.00	0	\$0.00
39	AF	Herbaceous Plant	EA	12	\$25.00	\$300.00	0	\$0.00	0	\$0.00	0	\$0.00
TOTAL BASE BID:						\$733,922.50	TOTAL EXT. =	\$59,875.00	\$0.00		\$59,875.00	

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

Page: 1  
July 20, 2023  
File No: 9M

General Account

Balance

\$980.00

# Permit Application Coversheet

Date August 02, 2023

Project Name MCES Lake Elmo West Connection

Project Number 23-22

Applicant Name Bert Tracy, Metropolitan Council Environmental Services

Type of Development Utility Maintenance

## Property Description

This project is located within I-94 MnDOT Right-of-Way, west of Helmo Avenue to Radio Drive in the cities of Oakdale and Woodbury. The applicant is proposing to construct a sanitary sewer interceptor to improve capacity in the area. Existing sewer replacement will be included near the eastern end of the corridor, located within South Washington Watershed District (SWWD). The method of installation utilized within the RWMWD portion of the project is through microtunneling. Due to the nature of the proposed activity within RWMWD, permanent stormwater management (Rule C) is not required. The total site area is approximately 2.7 acres.

## Watershed District Policies or Standards Involved:

- ☐ *Wetlands* ☒ *Erosion and Sediment Control*  
☐ *Stormwater Management* ☐ *Floodplain*

## Water Quantity Considerations

There are no water quantity considerations.

## Water Quality Considerations

### *Short Term*

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

### *Long Term*

There are no long term water quality considerations.

## Staff Recommendation

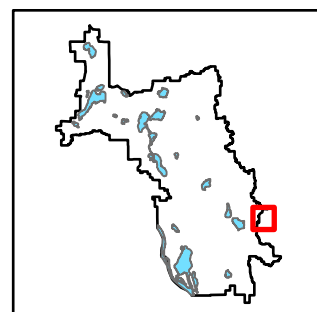
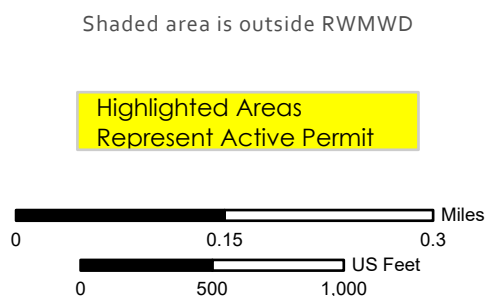
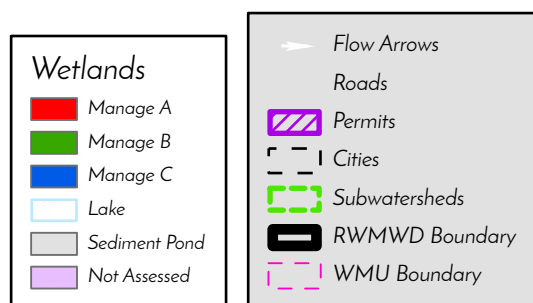
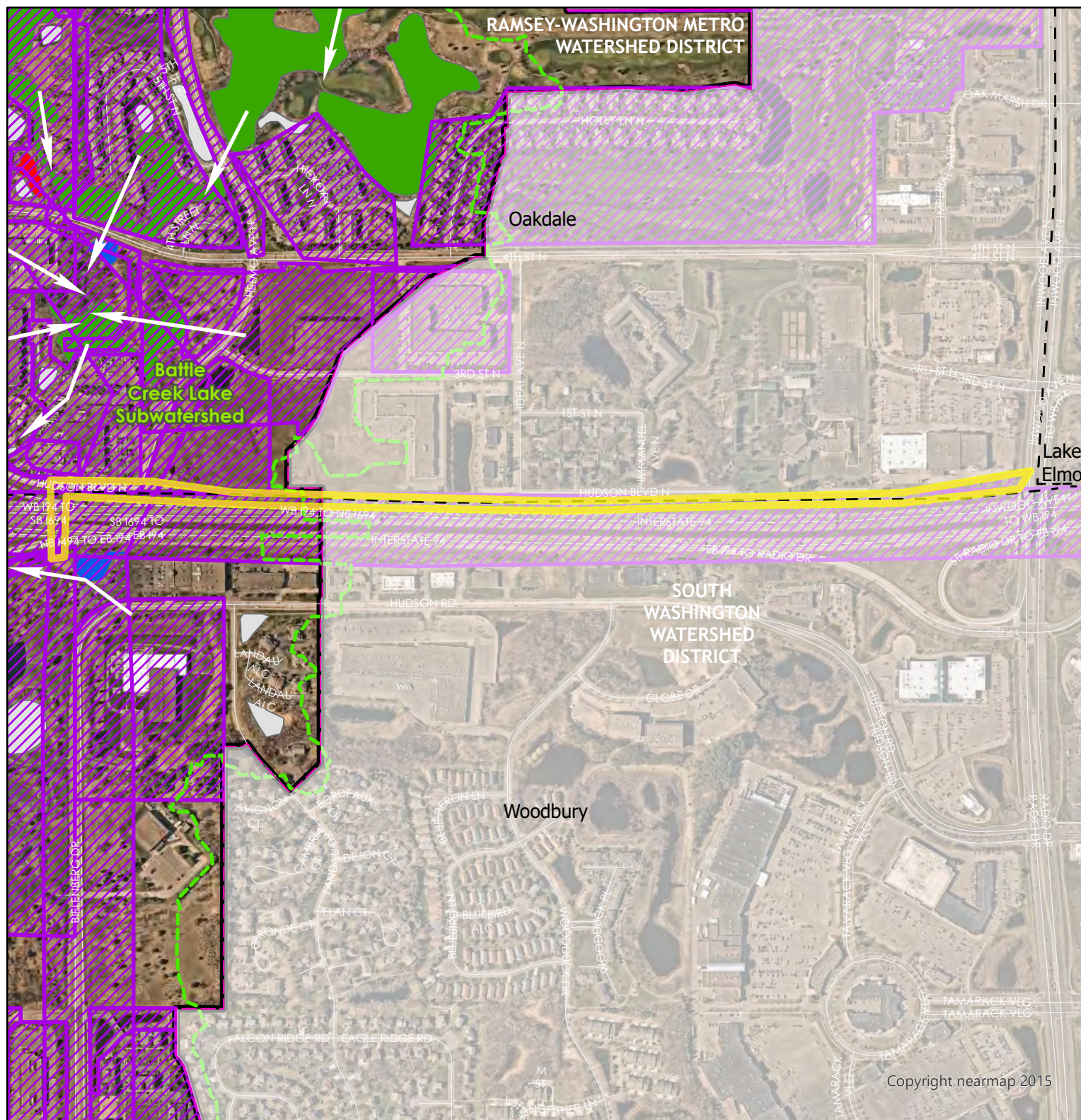
Staff recommends approval of this permit with the special provisions.

## Attachments:

- ☒ Project Location Map  
☐ Project Grading Plan



## #23-22 MCES Lake Elmo West Connection



23-22

### 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.
3. The applicant shall submit the final, signed plans set.



## Stewardship Grant Application Summary

**Project Name:** DeArmond

**Application Number:** 23-38\_CS

**Board Meeting Date:** 8/2/2023

**Applicant Name:** Chelsea DeArmond

**Residential** ☐

**Commercial/Government** ☒

### Project Overview:

This property is located off English St and Larpenteur Ave in the City of Maplewood. The property owner is proposing to remove existing turf grass on the south side of the property and replace with native vegetation. This is the first phase of a potentially multi-phase plan to reduce turf grass and pavement on the property. The full plan calls for removing parking stalls to install two rain gardens and additional native plantings. The applicant is hoping to move forward with the next phase as budget allows.

This phase of the project is eligible for 50% coverage up to \$15,000.

### BMP type(s):

Native Habitat Restoration(1)

### Grant Request:

\$12,831.00

### Recommendation:

Staff recommends approval of this application.

### Subwatershed:

Lake Phalen

### Location Maps:



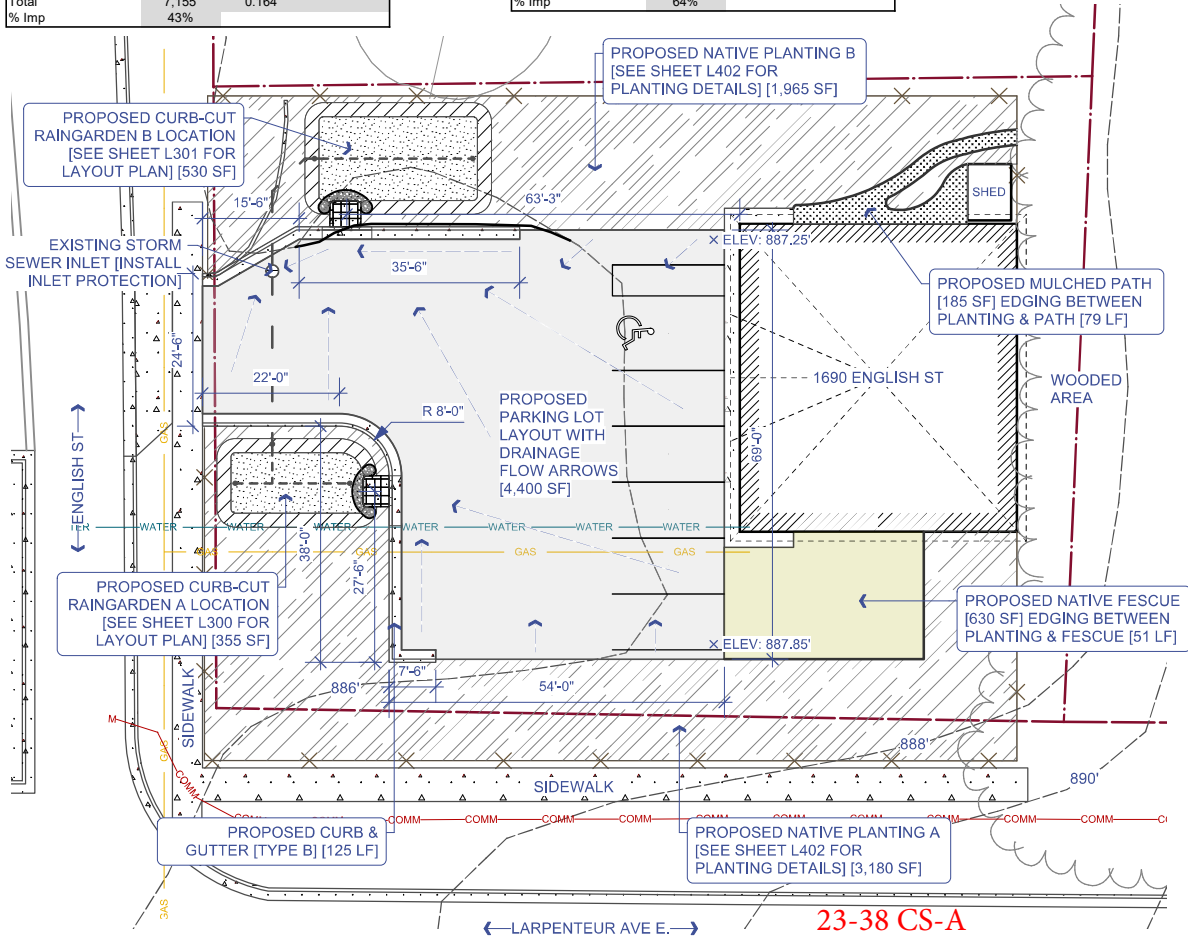


Pollutant Reductions: Curb-Cut Raingarden A - DeArmond				
	Before	After	Reduction	Red. %
Volume (cu-ft/yr)	8,916	4,421	7,584	85%
TSS (lbs/yr)	30.35	15.04	25.82	85%
TP (lbs/yr)	0.167	0.083	0.142	85%

Watershed Data Curb Cut Raingarden A - DeArmond			
Target Rainfall	1	in	
Soil Type:	B	HSG:	
Soil IR	0.45	in/hr	
Surface	Sq-ft	Acre	CN
Roof	826	0.019	98
Sidewalk	600	0.014	98
Parking Lot	1,615	0.037	98
Landscape/Lawn	4,114	0.094	79
Total	7,155	0.164	
% Imp	43%		

Pollutant Reductions: Curb-Cut Raingarden B - DeArmond				
	Before	After	Reduction	Red. %
Volume (cu-ft/yr)	10,097	4,421	8,860	88%
TSS (lbs/yr)	34.36	15.04	30.15	88%
TP (lbs/yr)	0.189	0.083	0.166	88%

Watershed Data Curb Cut Raingarden B - DeArmond			
Target Rainfall	1	in	
Soil Type:	B	HSG:	
Soil IR	0.45	in/hr	
Surface	Sq-ft	Acre	CN
Roof	826	0.019	98
Parking Lot	2,615	0.060	98
Landscape/Lawn	1,910	0.044	79
Total	5,351	0.123	
% Imp	64%		



**GENERAL PROJECT NOTES:**

1. CONTRACTOR/LANDOWNER TO COORDINATE REQUIRED GRADING PERMIT WITH CITY OF MAPLEWOOD STAFF PRIOR TO BEGINNING WORK. ALSO COORINATE PARKING SPACE REMOVAL APPLICATION AS NEEDED - VERIFY WITH CITY STAFF.
2. CONTRACTOR TO INSTALL ADEQUATE SEDIMENT AND PERIMETER CONTROLS DURING EXCAVATION. (1 INLET PROTECTION, PERIMETER SEDIMENT LOGS, ETC. AS NEEDED)
3. SEE REMOVALS / DEMOLITION PLAN ON SHEET L200 FOR ESTIMATES ON SITE DISTURBANCE, TREE REMOVALS, AND MATERIALS REMOVED FROM SITE.
4. SEE REMOVALS / DEMOLITION PLAN ON SHEET L200 FOR ESTIMATES ON IMPORTED MATERIALS QUANTITIES.
5. PROPOSED PARKING LOT REDUCTION/RETROFIT. INSTALL 125 LF OF NEW TPYE B CONCRETE CURBING OR EQUIVALENT. INSTALL 4,400 SF ASPHALT PARKING LOT WITH 5 REGULAR PARKING STALLS & 1 HANDICAP ACCESSIBLE PARKING SPACE.
6. PROPOSED 8" COMPACTED SUB-BASE & 3" THICK ASPHALT (2 LAYERS) FOR LOT OR EQUIVALENT. PAVING CONTRACTOR TO PROVIDE AND VERIFY FINAL PAVING SYSTEM DETAILS PRIOR TO INSTALLATION.
7. SEE SITE PLAN FOR PROPOSED LOT DRAINAGE. MINIMUM 2% SLOPE FOR LOT. GRADE LOT TO DRAIN TOWARDS TWO CURB-CUT OPENINGS WITH EXISING CATCH BASIN SERVING AS ULTIMATE LOW POINT.

**NATIVE PLANTING A & B NOTES:**

1. REMOVE EXISTING BITUMINOUS PAVEMENT INCLUDING SUB-BASE & REMOVE EXISTING TURF GRASS VEGETATION IN PROJECT AREA. HERBICIDE APPLICATION [1-2 MINIMUM]. [5,960 SF TOTAL]
2. DEAD TURF GRASS CAN REMAIN IN PLACE FOR EROSION CONTROL PURPOSES ON SLOPED PORTIONS OF YARD.
3. LEVEL AREAS OF YARD MAY BE TILLED FOR PLANTING BED PREP AS NECESSARY IF SOILS ARE COMPACTED.
4. INSTALL 2" THICK TOP SOIL/GARDEN SOIL OVER ENTIRE PLANTING AREAS. TILL INTO EXISTING SOILS.
5. ONCE TURF GRASS IS EFFECTIVELY KILLED, INSTALL 3"-THICK TWICE SHREDDED HARDWOOD MULCH OVER ENTIRE PLANTING AREA.
6. INSTALL NATIVE PLANTS THROUGHOUT PLANTING AREA. USE SPECIES FROM LIST PROVIDED ON SHEET L402.
7. INSTALL PERENNIALS AT 24" SPACING IN GROUPS OF LIKE SPECIES FOR EASY IDENTIFICATION AND WEEDING. INSTALL IN GROUPS OF 18-36 COUNT OF SAME SPECIES.
8. INSTALL SHRUBS AT 36-48" SPACING. INSTALL TREES PER LOCATIONS SHOWN ON PLANTING PLAN ON SHEET L402.
9. RECOMMENDED SPECIES LIST AND QUANTITIES ARE PROVIDED ON SHEET L402 FOR REFERENCE. FINAL SPECIES LIST INCLUDING SPECIES, SIZING, AND QUANTITY TO BE PROVIDED TO RCSWCD STAFF PRIOR TO PURCHASE AND INSTALLATION FOR APPROVAL.
10. INSTALL STEEL EDGING AT PERIMETER OF PLANTING BETWEEN NATIVE PLANTING AREA AND PROPOSED FESCUE AREA & BETWEEN PLANTING AND MULCH PATH. [160 LF TOTAL] INSTALL EDGING FLUSH WITH GRADE.
11. EXACT SIZE/SHAPE OF PLANTING AREA MAY VARY. MAINTAIN APPROXIMATE SQUARE FEET SIZE. VERIFY FINAL LAYOUT WITH LANDOWNER PRIOR TO HERBICIDE APPLICATION AND PROJECT INSTALLATION.

**PLAN LEGEND:**

	NATIVE PLANTING		PROPOSED CONTOUR
	MULCH PATH		EXISTING FENCE
	FLAT RAINGARDEN BASIN		PARCEL BOUNDARY (APPROX)
	4H:1V RAINGARDEN SIDE SLOPES		2' CONTOUR ELEVATION
	TURF GRASS		

**RAMSEY COUNTY**

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

**PROJECT:**  
DEARMOND BUSINESS

**LOCATION:**  
1690 ENGLISH STREET  
MAPLEWOOD, MN 55109

**WATERSHED DISTRICT:**  
 RAMSEY-WASHINGTON  
METRO WATERSHED DISTRICT

**DESIGNER:** BRIAN T. OLSEN  
**DATE:** 3/9/2023  
**PAST REVISION:**  
**PAST REVISION:**  
**PAST REVISION:**  
**CHECKED BY:**  
**TAA:**

**NOTES:**  
-CONTACT GOPHER STATE ONE CALL TO CONFIRM UTILITY LOCATIONS  
-ELEVATIONS ARE APPROXIMATE, SITE VERIFY  
-VERIFY ANY BID ALTERNATES OR ONSITE CHANGES WITH SWCD STAFF PRIOR TO INSTALLATION  
-ORIGINAL SHEET SIZE: 11"x17"

**SCALE:** 1"=20'-0"

**N**

**SITE PLAN**

**L100**

## Stewardship Grant Application Summary

**Project Name:** Gerding

**Application Number:** 23-39 CS

**Board Meeting Date:** 8/2/2023

**Applicant Name:** Noah Gerding

**Residential** ☒

**Commercial/Government** ☐

### Project Overview:

This project is located off Granada Ave N and 25th St N in the City of Oakdale. The applicant is proposing to install two rain gardens and three native planting areas throughout their yard. They are looking to alleviate erosion issues on the yard, convert turf to native plantings, filter runoff before it leaves their property, and increase pollinator habitat.

This project is eligible for 50% coverage up to \$15,000.

### BMP type(s):

Native Habitat Restoration(2), Rain Garden(3)

### Grant Request:

\$15,000.00

### Recommendation:

Staff recommends approval of this application.

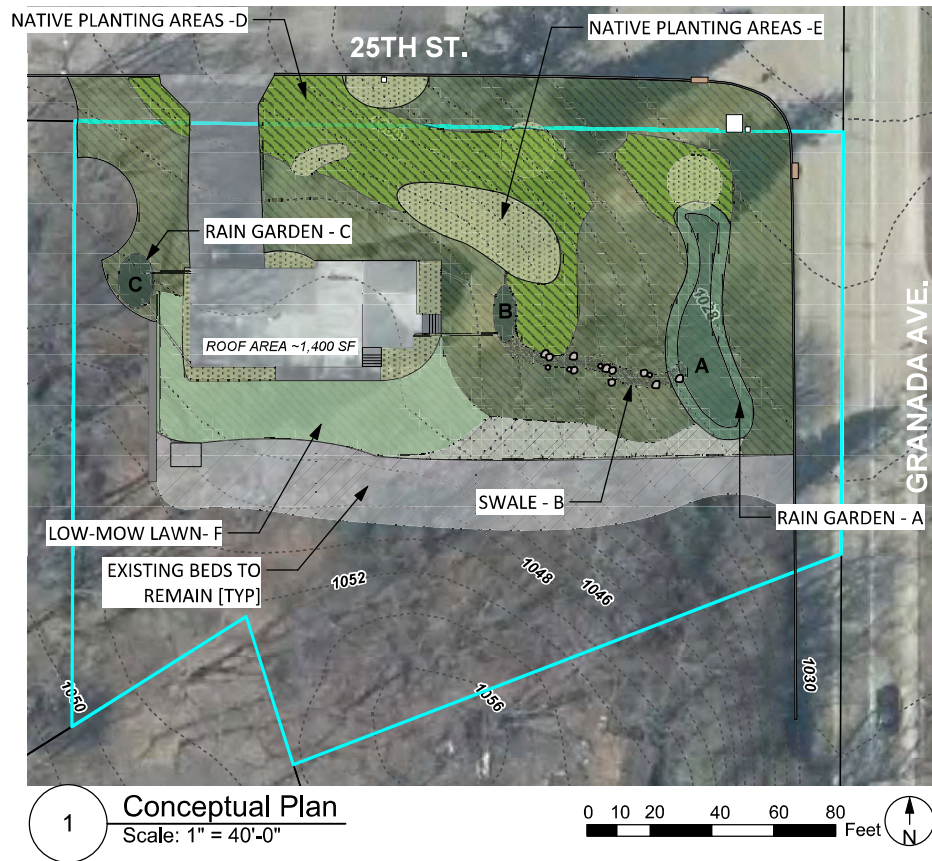
### Subwatershed:

Beaver Lake

### Location Maps:



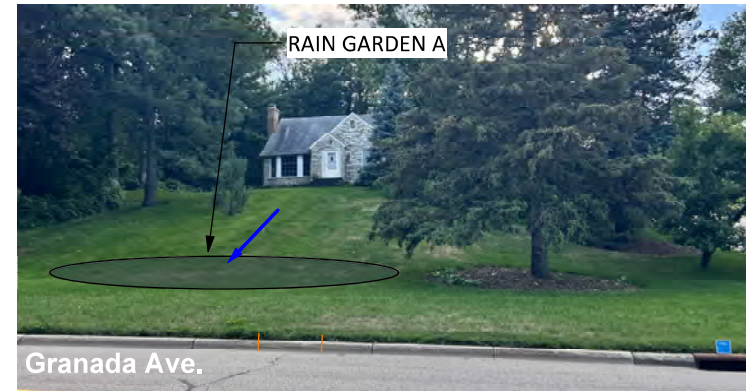




### Gerding Residence Rain Garden and Native Planting Project

This project includes proposals for native planting, low-mow lawn, a swale and three rain garden locations, each treating different pollution sources. This overall Concept Plan is intended to be phased, with Rain Garden A and Swale B as the initial project scope.

- Rain Garden A [1,300 SF basin] The area captures ~13,000 SF of runoff from the hillside
  - Swale B [350 SF swale and garden] includes a tiered- swale and with stepping pools down the hillside. This swale directs additional runoff from the east half of the roof.
  - Rain Garden C [150 SF basin] accepts water from the west side of the roof.
- Additional Project Items include:
- Native Planting D: 4,000 SF of upland native planting area is proposed to connect existing planting beds
  - Enhanced Beds E: 2,000 SF of existing beds to be renovated with natives
  - Lawn F: 2,500 SF Lawn Retrofit- convert existing lawn in the back yard to a Low Mow Lawn
- TOTAL AREA: 10,300 SF



Washington  
Conservation District  
455 Hayward Ave N  
Oakdale, MN 55128  
(651) 330-6220  
www.wnwc.org



Project Address 2482 Granada Avenue N Oakdale, MN 55128	Project Manager Lori Tella	LT		
		Drawn	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 LICENSED PROFESSIONAL LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

*Lori Tella*  
Lori Tella

05/10/23  
Reg. No. 58219

Project Title Gerding Residence Water Quality Project	Sheet Title Conceptual Plan
---	--------------------------------

Date  
05/10/2023

L-1

of

11

## Stewardship Grant Application Summary

**Project Name:** Gourley

**Application Number:** 23-40 CS

**Board Meeting Date:** 8/2/2023

**Applicant Name:** Glenn Gourley

**Residential** ☒

**Commercial/Government** ☐

### Project Overview:

This project is located just south of Snail Lake Regional Park off Mackubin St and Lakeridge Ct in the City of Shoreview. The applicant is proposing to convert 4 areas of the yard into a combination of native plantings and bee lawn. The project is being done to increase pollinator habitat, reduce need for watering, and replace damaged/dead turf areas with drought tolerant native species.

This project is eligible for 50% coverage up to \$15,000.

### BMP type(s):

Bee Lawn(1), Native Habitat Restoration(3)

### Grant Request:

\$10,889.00

### Recommendation:

Staff recommends approval of this application.

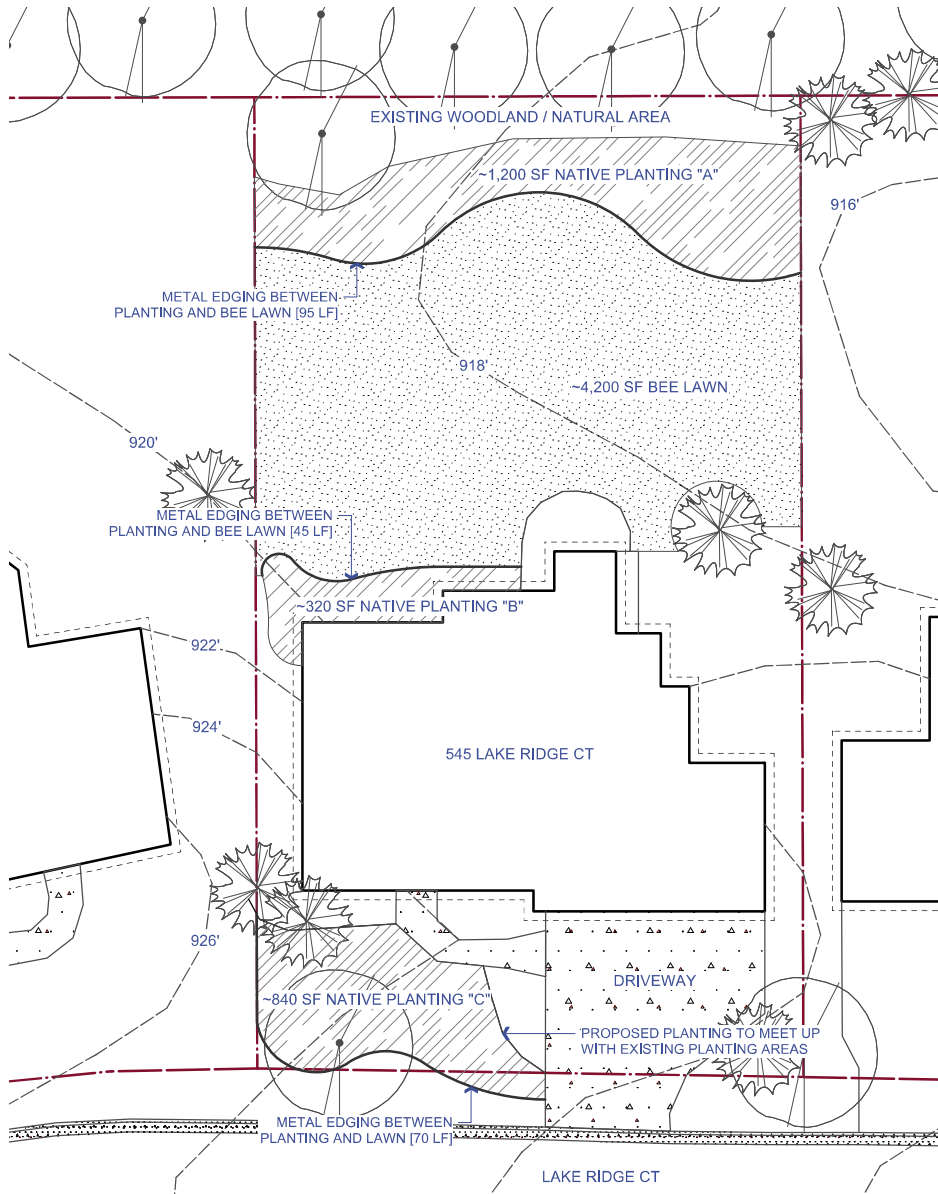
### Subwatershed:

Grass Lake





### Location Maps:







#### LEGEND

-  BEE LAWN MIX (+/- 4,200 SF)  
\*ALL SEED MIXES SHALL BE SUBMITTED FOR APPROVAL BY RCSWCD STAFF PRIOR TO PURCHASE AND INSTALL
-  NATIVE PLANTING (+/- 2,360 SF)  
\*TO BE PLANTING WITH LIVE PLANT PLUGS AND MULCHED, FINAL SPECIES LIST & QUANTITIES TO BE SUBMITTED FOR APPROVAL BY RCSWCD STAFF PRIOR TO PURCHASE AND INSTALL
-  PROPERTY LINE (APPROX)
-  2' CONTOUR ELEVATION LINE

#### SITE PREPARATION & INSTALLATION PROCEDURES (OR APPROVED EQUAL):

1. ALL SEED SHALL BE HAND BROADCAST TWICE OVER FOR PROPER DISTRIBUTION, WITH THE SECOND BROADCAST PERPENDICULAR TO THE FIRST ROUTE OF SEEDING.
2. ALL SEEDED AREAS SHALL BE HAND-RAKED.
3. FOR ALL AREAS WITH BARE SOIL: RAKE SEEDING AREA, BROADCAST SEEDS EVENLY, AND LIGHTLY RAKE AGAIN.
4. FOR ALL AREAS WITH EXISTING LAWN/TURF/VEGETATION: AREAS SHOULD BE SPRAYED WITH HERBICIDE TO KILL EXISTING VEGETATION, MINIMUM 1-2 APPLICATIONS TO EFFECTIVELY KILL ALL COMPETING VEGETATION, BROADCAST SEEDS EVENLY, LIGHTLY RAKE AGAIN.
5. WITHIN 24 HRS IMMEDIATELY POST-SEEDING, ON ALL SLOPES EXCEEDING 4H:1V, AREAS SUSCEPTIBLE TO CHANNEL EROSION, AND ADDITIONAL AREAS NECESSARY, SHALL BE COVERED WITH S75BN EROSION BLANKET (OR APPROVED EQUAL)
6. CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PERMANENT/TEMPORARY EROSION CONTROL MEASURES WITHIN PRESCRIBED PLANTING AREAS UNTIL SEEDED VEGETATION HAS PROPERLY GERMINATED/BEEN APPROVED FOR PROJECT CLOSEOUT.
7. CONTRACTOR / LANDOWNER SHALL ESTABLISH CONTRACT LANGUAGE AND PLAN FOR PROPER IRRIGATION OF SEEDED AREAS. PROPER WATERING SHALL OCCUR DURING THE ESTABLISHMENT PERIOD OR UNTIL ALL SEEDED AREAS HAVE FULLY FILLED-IN
8. SEEDING RATES SHALL BE 4.5 LBS PER 1,000 SF OR 200 LBS PER ACRE
9. PROJECT LAYOUT, TOTAL AREA, AND MATERIALS MAY VARY WITH RCSWCD STAFF APPROVAL
10. ALL FINAL PLANNED SITE PREPARATION AND INSTALLATION PROCEDURES SHALL BE PROVIDED IN WRITTEN FORMAT FOR APPROVAL BY RCSWCD STAFF PRIOR TO WORK START
11. FOR NATIVE PLANTING AREAS: PLANTING BED TO BE PREPPED FOR PLANTING, ALL COMPETING VEGETATION TO BE REMOVED/KILLED, COVER ENTIRE AREA IN 3"-THICK TWICE SHREDDED HARDWOOD MULCH, PLANT WITH NATIVE SPECIES.
12. PLANT NATIVE SPECIES (2" PLUGS OR APPROVED EQUAL) IN GROUPS OF SAME SPECIES FOR EASY IDENTIFICATION AND WEEDING. PLANT IN GROUPS OF 24-26 OF SAME SPECIES WITH 24-30" SPACING BETWEEN INDIVIDUAL PLANTS. SEE ATTACHED SUGGESTED SPECIES LIST. FINAL SPECIES LIST AND QUANTITIES TO BE SUBMITTED FOR FINAL APPROVAL PRIOR TO INSTALLATION.



RAMSEY COUNTY SWCD  
2015 VAN DYKE ST N  
MAPLEWOOD, MN 55109  
651-266-7274  
www.ramseycounty.us

PROJECT: GOURLEY RESIDENCE  
LOCATION:  
545 LAKERIDGE CT  
SHOREVIEW, MN 55126  
WATERSHED DISTRICT:



DESIGNER: BTO  
DATE: 10/4/2022  
REVISION:  
REVISION:  
REVISION:  
REVISION:  
CHECKED BY:  
TAA:

NOTES:  
CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO WORK

UTILITIES WITHIN OR NEAR CONSTRUCTION AREA SHALL BE POTHOLED

CONTRACTOR MUST ACQUIRE ALL NECESSARY PERMITS

ORIGINAL SHEET SIZE: 11" x 17"

SCALE: 1"=20'0"

SITE PLAN



L100

## Stewardship Grant Application Summary

**Project Name:** Hines

**Application Number:** 23-41 CS

**Board Meeting Date:** 8/2/2023

**Applicant Name:** Kyle Hines

**Residential** ☒

**Commercial/Government** ☐

### Project Overview:

This project is located off Valley Creek Rd and Evergreen Dr in the City of Woodbury. The applicant is proposing to replace two areas of existing turf grass in their back yard with native plantings. Their goals are to reduce turf, filter stormwater runoff, provide habitat, and reduce standing water issues in their yard.

This project is eligible for 50% coverage up to \$15,000.

### BMP type(s):

Native Habitat Restoration(2)

### Grant Request:

\$7,800.00

### Recommendation:

Staff recommends approval of this application.

### Subwatershed:

Battle Creek Lake

### Location Maps:



Property Line  
approximate.  
Aerial photo  
is a flyover.



#### Native Planting #1

300 sqft  
Reduce turf, filter stormwater runoff, provide habitat and soak in water.

#### Plant recommendations:

*Carex vulpinoidea*, Fox Sedge  
*Tradescantia ohiensis*, Ohio Spiderwort  
*Echinacea purpurea*, Purple Coneflower  
*Aster oblongifolius*, Aromatic Aster

#### Native Planting #2

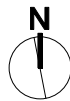
1,400 qft  
Reduce turf, filter stormwater runoff, provide habitat and soak in water

#### Plant recommendations:

*Agastache foeniculum*, Anise Hyssop  
*Echinacea purpurea*, Purple Coneflower  
*Aster oolentangiese*, Sky Blue Aster  
*Coreopsis lanceolata*, Lance leaf Coreopsis  
*Monarda fistulosa*, Wild Bergamot  
*Bouteloua curtipendula*, Side oats Grama  
*Schizachyrium scoparium*, Little Bluestem  
*Sporobolus heterolepis*, Prairie Dropseed

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

0 10 20 30 40 50 FT



#### Legend

— 2' Contour Lines  
- - - Property Line  
— Aerial Property Line

plan created by:



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



2665 Noel Drive - Little Canada, MN 55117  
(651) 792-7950 www.rwmwd.org

Project Address  
1681 Evergreen Dr.  
Woodbury

Project Manager  
BMP Designer  
Washington Conservation District

Project Title

Hines Native Planting

Sheet Title

Native Planting Concept

CAD File Name

Concept\_Hines.mxd

Revision

Drawn By

Reviewed By

Date  
12/18/19

Scale

Sheet No.

Sht- 1

of  
1

## Stewardship Grant Application Summary

**Project Name:** Radloff

**Application Number:** 23-42 CS

**Board Meeting Date:** 8/2/2023

**Applicant Name:** Corey Radloff

**Residential** ☒

**Commercial/Government** ☐

### Project Overview:

This project is located just south of Battle Creek along Larry Ho Dr E in the City of St. Paul. The applicant is proposing to install a rain garden and native plantings across his front yard in an effort to reduce the inputs needed for a traditional turf grass yard. Their hope is to help improve water quality of runoff going into Battle Creek as well as create pollinator habitat in a more sustainable, natural yard.

The rain garden portion is eligible for 75% coverage and the native planting portion is eligible for 50% coverage up to \$15,000.

### BMP type(s):

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

### Grant Request:

\$15,000.00

### Recommendation:

Staff recommends approval of this application.

### Subwatershed:

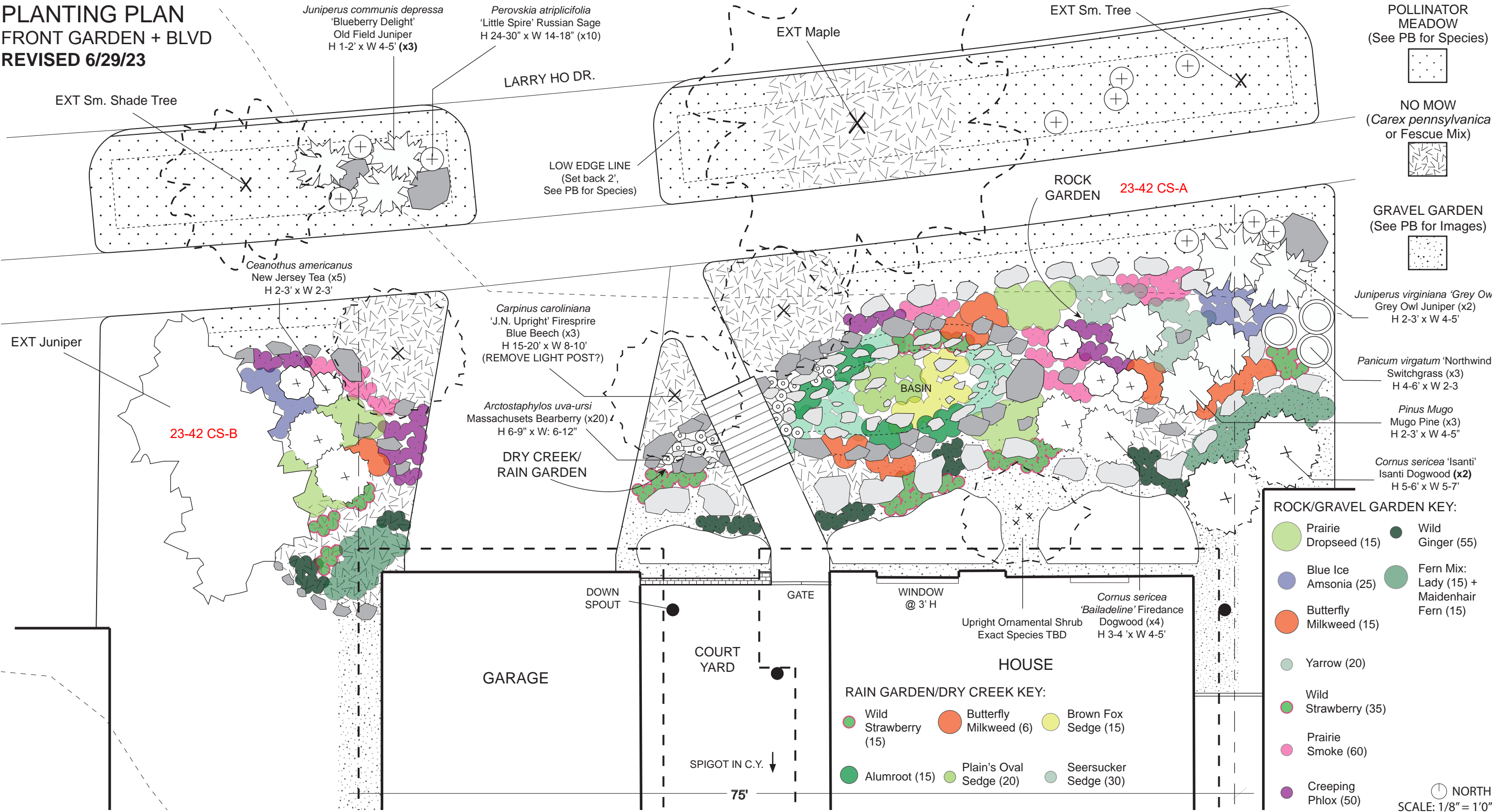
Battle Creek

### Location Maps:





PLANTING PLAN  
FRONT GARDEN + BLVD  
REVISED 6/29/23



LIGHT DARK LANDSCAPE



\* \* \* \* \*

# Permit Program

\* \* \* \* \*



# RAMSEY-WASHINGTON

## METRO WATERSHED DISTRICT

### MEMORANDUM

**Date:** August 2, 2023

**To:** Board of Managers and Staff

**From:** Nicole Maras, Permit Coordinator  
Mary Fitzgerald, District Inspector

**Subject:** July Enforcement Action Report

During July 2023:

<b>Number of Violations:</b>	<b>15</b>
Install/Maintain Inlet Protection	5
Install/Maintain Perimeter Control	6
Stabilize Exposed Soils	1
Contain Liquid/Solid Wastes	1
Remove Discharged Sediment	1
Maintain/Protect Permanent BMPs	1

### Activities and Coordination Meetings:

Active permit site monitoring and inspections, permitting assistance to private developers and public entities, Wetland Conservation Act (WCA) administration & procedures, new permit review with Barr Engineering, 48-hour post rainfall BMP inspections, Cedar Creek Ecosystem Science Reserve tour, MN Water Workforce meetings, BMP maintenance technical guidance, check-in with new NR team, underground BMP inspections with Barr Engineering, check-in with Grant team, closed permit BMP maintenance inspections, BWSR Basic Wetland Plant ID class, RWMWD DEIA meeting, Watershed DEI Workgroup Summer Retreat, wetland restoration case study webinar, initial onsite erosion control meetings, preconstruction meeting, rule revisions process

### Single Lot Residential Permits Approved by Staff:

None



**Permits Closed:**

18-23 Tamarack Hills Medical Office Building (Woodbury)--WITHDRAWN  
18-26 MnDOT I694/I494/I94 Loop (Woodbury/Oakdale)  
18-30 Morrie's Mercedes Benz (Maplewood)  
19-04 Hiway Federal Credit Union (Woodbury)  
19-10 Radio Drive Trails (Woodbury)  
20-01 Carver Elementary School Addition (Maplewood)  
20-23 White Bear Lake High School South Gym (White Bear Lake)  
21-14 Kwik Trip (North St. Paul)  
21-15 Woodbury Edgewood Culvert Replacement (Woodbury)

**Project Updates:**

Four permitted projects began work in the month of July, each receiving an initial erosion control walk-through. These walk-throughs are attended by District staff and site contractors to verify all necessary erosion and sediment control practices are installed prior to soil disturbance, and to communicate inspection schedules and site expectations. Staff have found these walkthroughs to be helpful in communicating the importance of erosion and sediment control on the jobsite through the duration of the project. Staff go over compliance versus non-compliance, and how to be reached if questions arise during construction. Staff also take this time to remind site personnel that the District needs to be contacted prior to permanent BMP installation, so that staff can be onsite during this process for observations.



#23-10 Oakdale Senior



#23-15 Maplewood Myrtle-Sterling



#23-08 Little Canada 2023 SIP (Twin



#23-11 Reuter Walton Apartments II (Little

**Rule Revision Process Update:**

The formal comment period for RWMWD/CRWD proposed rule revisions ended on July 24<sup>th</sup> with comments and/or responses received from: City of Landfall, City of Lauderdale (located solely in CRWD), Metropolitan Council Environmental Services, City of St. Paul, Washington County, City of White Bear Lake, and City of Woodbury.

RWMWD and CRWD staff met to briefly discuss on July 25<sup>th</sup>. Comments will be reviewed, and responses will be prepared during the month of August. Pending any unforeseen delays, both watershed boards will see the list of comments and responses in the September board packet along with the final proposed rules document (red-line version). Board action will be requested at that time.

Feel free to contact Nicole in the meantime if there are any questions or concerns.

\* \* \* \* \*

# Stewardship Grant Program

\* \* \* \* \*



# RAMSEY-WASHINGTON

## METRO WATERSHED DISTRICT

### Memorandum

**To:** Board of Managers and Staff

**From:** Paige Ahlborg, Watershed Project Manager

**Subject:** **Snowmelt BMP Analysis and Funding Recommendation**

**Date:** August 2, 2023

### Overview

Recently, City of Woodbury reached out to RWMWD staff to inquire as to whether grant funding may be available toward the 2024 installation of a heated sidewalk or snowmelt system at their library entrance in an effort to reduce salt use over the winter. Although this type of request is new for RWMWD, staff found it potentially compelling as Battle Creek Lake-the waterbody downstream of the relevant area is impaired by chloride (as deemed by the MPCA's impaired waters list). Staff reviewed available information to better understand these kinds of systems and to explore ways to interpret the value relative to salt use reduction in the context of water quality improvement.

Road salt and deicing chemicals enter storm drains and discharge into waterbodies, where they become a permanent source of pollution. Surfaces managed by a snowmelt system do not require salt or deicing chemicals to manage ice formation or snow removal. Snowmelt systems maintain a temperature above freezing to melt snow or ice instantly when it falls on the already warmed surface. The heat source can come from electric cables, excess heat from boilers, or as part of a geothermal system. Boiler and geothermal systems use pipes or tubes embedded in pavement which circulate warm fluid. A control system consisting of in-ground sensors can be used to measure temperature, shut the system off when the surface is dry, and prewarm in anticipation of a snowstorm.

There is limited data that directly connects the implementation of snowmelt systems to water quality benefits. As such, it is difficult to compare benefits with other types of BMPs. Salt-specific BMPs that focus on source reduction, such as improved chloride application practices or seasonal sweeping removal of excess salt are likely to have a broader impact. The water quality benefit of installation of individual snowmelt systems is based on preventing water from being permanently polluted by eliminating the need for salt altogether at a smaller scale.

### Method of Heating

#### Electric resistance

- Electric cables, sometimes laid out to form a mat
- Small to medium size sites

#### Hydronic Radiant Heating

- Mix of water and glycol (antifreeze) flows through a closed-loop tubing array, typically boiler heated
- Can be implemented at a range of scales
- Lower operating costs than electric resistance of geothermal systems

**Geothermal**

- Larger scale system required
- Utilizes stored heat within the earth in conjunction with heat pump technology to move and amplify heat instead of creating it.
- Efficient, operating at 20-70% lower energy consumption than conventional heating and cooling technology.

**Calculations**

The Mississippi Watershed Management Organization (MWMO) has funded several local snowmelt systems (see “Examples of Local Projects” below). They provided RWMWD staff the assumptions and calculations that they use in consideration of funding these types of projects. Those calculations were then applied to the preliminary site information provided by the property owner.

- 1 teaspoon of salt permanently pollutes 5 gallons water
- Salt is applied each time it snows more than 1 inch, which happens 16 times/yr on average in the Twin Cities Metro Area
- Assume 1 pound of salt is applied per 250 square feet
- To convert pounds to teaspoons, assume the average weight of salt is 76 pounds per cubic foot and there are 5,745 teaspoons per cubic foot

**Woodbury Library Site Estimates – Glycol System**

<b>Salt Pollution Calculations</b>	<b>Value</b>	<b>Units/Notes</b>
Rate of Application	1	lb salt per 250 SF
Density of Salt	76	lbs/CF
Volume Conversion	5,745	tsp/CF
Pollution	1	tsp/5 gallon
Application frequency	16	times/yr
<b>Site Specific Calcs</b>		
Sidewalk Area	6,313	SF
Estimated Capital Cost	\$230,000	
O&M	\$1,200	*Assume two days/year @ \$75/hr
Pounds of salt saved	404	lbs/yr
Tsp salt saved	30,542	tsp
Gallons of water protected	152,708	gal/year
Subwatershed	Battle Creek Lake	Priority subwatershed
<b>Twin Cities Metro Area Chloride TMDL</b>		<i>Note that the salt application assumptions presented in this table may differ from what the TMDL assumes</i>
Battle Creek Lake Chloride Waste Load Allocation (WLA)	1,766,033	lbs/yr
% of WLA reduced by project	0.023%	



### Other Considerations

As winters warm, more icy conditions are expected in the Twin Cities with melting during daylight hours that refreezes overnight.

Physical removal of ice and snow, as well as the chemical application of deicers impact the lifespan of pavements. A snowmelt system could increase the total lifespan of the pavement.

However, systems that increase the use of non-renewable energy may have adverse impacts on climate change. The total environmental impact of these projects ultimately depends on the energy source.

### Locally Installed Projects

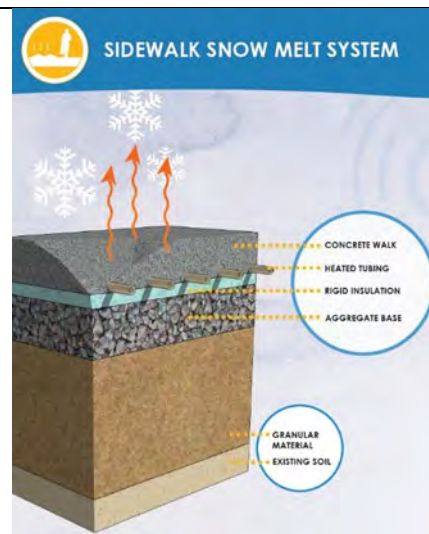
#### Columbia Heights City Hall

- <https://www.mwmo.org/projects/heated-sidewalks-at-columbia-heights-city-hall/>
- Installed in 2022, but not online for 2022-23 winter season
- MWMO grant funding, \$131,800
- Glycol system. Slab sensor senses moisture and temperature.
- 5,000 sf sidewalk, calculated to prevent salt contamination of up to 121,000 gallons of stormwater runoff annually



#### Columbia Heights Library

- <https://www.mwmo.org/news/no-salt-required-sidewalk-snowmelt-system-fights-snow-ice/>
- Installed in 2016
- 2,320 sf sidewalk, calculated to prevent salt contamination of 59,200 gallons of stormwater runoff annually



**Hennepin Energy Recovery Center (HERC)**

- Glycol mix (antifreeze)
- Excess heat from production of energy warms the glycol
- Installed circa 2015
- <https://www.mwmo.org/projects/target-field-station-stormwater-reuse/>

**Other Projects**

Holland, Michigan

- Holland, Michigan has operated a water-heated snowmelt system since 1988, managing approximately 690,000 square feet of pavement in downtown. Over time, \$8 million has been invested.
- On Lake Michigan's eastern shore, Holland gets 70" of snow annually
- Waste heat from power plant is used to heat the water that flows through the tubing system
- <https://www.cityofholland.com/879/Snowmelt-System>
- <https://usa.streetsblog.org/2021/02/23/holland-shows-how-to-put-pedestrians-first-in-winter>

**Resources:**

<https://nea.is/geothermal/direct-utilization/snow-melting/>

<https://environment.umn.edu/education/susteducation/pathways-to-renewable-energy/snow-free-winter-roads-and-sidewalks/>

<https://black-haak.com/how-does-geothermal-heating-work-in-the-winter/>

<https://www.icelandreview.com/ask-ir/does-reykjavik-have-heated-sidewalks/>

<https://therma-hexx.com/uncategorized/the-pros-and-cons-of-snow-melting-systems/>

<https://www.warmlyyours.com/en-US/snow-melting/cost-calculator>

**Applicable District Goal and Action Item**

**Goal: Achieve quality surface water-** The District will maintain or improve surface water quality to support healthy ecosystems and provide the public with a wide range of water-based benefits.

**Action Items: WQ3-** Assist local communities in implementing projects or other management actions resulting from the Minnesota Pollution Control Agency's Twin Cities Metro Chloride Project or future chloride total maximum daily load studies.

**Staff Recommendation**

In an effort to assist the City of Woodbury in their project planning and to provide guidance on the coverage amounts, staff recommends that the Board preliminarily approve this request to install heated sidewalks in a priority subwatershed be eligible for 100% coverage up to \$100,000. City of Woodbury will be required to formally apply for grant funding once the final design is complete and the application will be subject to RWMWD board of manager's review and approval. This recommendation is consistent with the current guidelines of the stewardship grant program.

**Board Action Requested**

Approve the preliminary request for funding of the installation of heated sidewalks in an effort to reduce chlorides in Battle Creek Lake.

# Stewardship Grant Program Budget Status Update

August 2, 2023

Homeowner	Coverage	Number of Projects: 22	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	14	\$47,831.50** *
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	7	\$75,489*
Master Water Steward Project	100% Cost Share \$15,000 Max	1	\$11,500
Shoreland Restoration	100% Cost Share \$15,000 Max	0	\$0

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects: 20	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	3	\$20,396*
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	2	\$139,907
Priority Area Projects	100% Cost Share \$100,000 Max	4	\$264,154
Non-Priority Area Projects	75% Cost Share \$50,000 Max	0	\$0
Public Art (\$50,000 Reserved)	50% Cost Share \$15,000 Max/Project	4	\$6,250**
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	2	\$27,000
Enhanced Street Sweeping (\$128,000 Reserved)	Grant Recipients and Amounts to be Set at Future Meeting	5	\$128,000

Maintenance	50% Cost Share \$7,500 Max for 5 Years	71	\$50,650**
Consultant Fees			\$61,260.25
<b>Total Allocated</b>			<b>\$831,387.75</b>

\*includes funds to be approved at current board meeting

\*\*includes staff approvals since previous board meeting

2023 Stewardship Grant Program Budget	
Budget	\$1,128,000
Total Funds Allocated	\$831,387.75
<b>Total Available Funds</b>	<b>\$296,612.25</b>

\* \* \* \* \*

# New Reports/ Presentations

\* \* \* \* \*



## Memorandum

**To:** Board of Managers and Staff  
**From:** Tina Carstens, District Administrator  
**Subject:** 2024 Budget Planning  
**Date:** August 2, 2023

Attached to this memo are several items regarding the 2024 preliminary budget:

- 2024 Budget Table
- 2024 Budget Program Line Item Breakouts
- 2024 Budget Line by Line Narrative

In the general fund (lines 1-48), you will find some increases and decreases in line items. I have evaluated the completed budget and audit from 2022 as well as what has been spent to date in 2023. I use this information to fine-tune the 2024 budget. Some increases seen in the general fund are due to anticipated increased costs due to inflation and some are due to a change in program work. A few items of note:

- Salary and Benefits (line 21) – this increase reflects the desire to continue to implement the new organizational structure as well as increases in salaries and benefits for our current employees.
- District Vehicles/Maintenance (line 33) – this increase is to purchase a new vehicle to add to our fleet.

In the capital improvement project (CIP) budget, here are a few things for you to consider:

- Debt Service (lines 50-51) – for the past several years we have had carry-over funds from our tunnel repair project to put towards our debt service obligations. This year we will need to levy for those funds.
- Targeted Retrofit Projects (line 52) – Three larger projects are being planned for 2024 although the Roosevelt Homes project could be constructed yet in 2023. The budget carry over will be adjusted towards the end of the year to reflect that change. On the budget table you will see \$800,000 from “other funds”. This is to reflect the money collected in Stormwater Impact Fund that will be applied to the Woodbury Target project.
- Double Driveway and Fish Creek Improvements (line 54) – this project was budgeted for in 2023 where project planning and design will be completed. The construction costs are

shown in the “other funds” section to reflect the desire to use CIP contingency funds as directed by the board last year.

- Project Repair & Maintenance (line 55) – the increase in budget for this line item reflects the need to repair the section of the Beltline that required an emergency repair this month (see the PSR for more information).
- Wetland Restoration Projects (line 56) – if the board chooses to move forward with the Cottage Place Wetland Restoration project as is to be discussed this month and next, most of the project can be constructed with carry over funds but projects cost increases due to inflation over the last several years does require additional levy funds.
- Flood Risk Reduction Fund (line 57) – as you will see in the line item breakdowns, approximately \$2,000,000 will be needed in 2024 for design of projects as well as those that will be ready for implementation. The projects that we be designed in 2024 could be constructed in 2025 and approximately \$7,000,000 will be needed for those projects. Therefore, I am showing in the 2024 budget the additional funds to be budgeted to account for about half of that need. Much of this money is covered in carry over from 2023 to 2024 and will then approximately \$3,200,000 will carry over to 2025 for those projects planned.

The carry-over is quite dynamic and will continually be evaluated as we move towards September and ultimately December. In this table, I have anticipated what I think will be close to the carry-over numbers to plan for. Even a small change in the carry-over in the positive direction can make a big different in the proposed levy and can help bring down the proposed levy percent increase. We typically start with a higher levy amount in August and September, and that number is refined as we move towards final levy approval in December. You will see right now the proposed levy increase is 7.45%. Again, this will come down as we refine the carry-over over the coming months.

I will take any feedback from the board at the August meeting regarding the budget and proposed levy increase. It will be helpful in August to know from the board on what is your comfort level in levy changes in 2024. Once we have that discussion in August, I will make some adjustments to the budget and levy before sending it to our city and county partners for review and comment. The information will also be public noticed in the paper (and on our website) in anticipation of the September board meeting to hold a public hearing on the preliminary budget and levy. At the September meeting, you will see a new budget/levy table and have a chance to better refine it. Those opportunities continue until the final adoption in December.

Fiscal Year 2024 Budget V1  
August Board Meeting

Budget ID Number	Budget Item		FY 2023 Budget	General Fund	Capital Improvements	Carry-over Funds	Other Funds	Total Proposed 2024 Budget	Increase (decrease) from 2023 Budget
1	Engineering	Administration	132,000	132,000				132,000	0
2		Engineering Review	70,000	75,000				75,000	5,000
3		Permit Application Review	59,000	65,000				65,000	6,000
4		Permit Inspection and Enforcement	10,000	10,000				10,000	0
5		Project Feasibility Studies	395,000	300,000				300,000	(95,000)
6		GIS Maintenance	5,000	5,000				5,000	0
7									
8	Attorney	General	40,000	40,000				40,000	0
9		Permit Enforcement	5,000	5,000				5,000	0
10									
11	Managers	Meeting Per diems	7,000	7,000				7,000	0
12		Managers Expenses	3,000	3,000				3,000	0
13									
14	Auditor/Accounting	Auditor/Accounting	75,000	80,000				80,000	5,000
15									
16	Miscellaneous	Dues & Publications	15,000	15,000				15,000	0
17		Insurance	60,000	65,000				65,000	5,000
18		Committee & Board Meeting Expenses	3,500	3,500				3,500	0
19		Miscellaneous	5,000	5,000				5,000	0
20									
21	Administrative	Salary & Benefits	1,860,000	2,000,000				2,000,000	140,000
22		Employee Expenses	15,000	10,000				10,000	(5,000)
23		Janitorial/Trash Services/Snow Plowing	15,000	15,000				15,000	0
24		Building Maintenance	125,000	100,000				100,000	(25,000)
25		Utilities (gas,electric, water, sewer, maintenance)	30,000	20,000				20,000	(10,000)
26		Office Supplies	7,000	7,000				7,000	0
27		Copying/Printing	5,000	5,000				5,000	0
28		Postage/Delivery	2,000	2,000				2,000	0
29		Office Furniture & Computer Equipment	100,000	80,000				80,000	(20,000)
30		Office Equipment Maintenance	2,000	2,000				2,000	0
31		Training/Education	75,000	75,000				75,000	0
32		Telephone	2,000	2,000				2,000	0
33		District Vehicles/Maintenance	20,000	60,000				60,000	40,000
34		GIS System Maintenance & Equip.	5,000	0				0	(5,000)
35		Database/GIS Maintenance & Equipment	20,000	20,000				20,000	0
36		IT Services/Internet/Website/Software Licenses	85,000	100,000				100,000	15,000
37		Outside Program Support	57,000	57,000				57,000	0
38		Outside Consulting Services	20,000	40,000				40,000	20,000
39									
40	Program	WMP, Lakes, TMDLs, Grants	142,000	157,000				157,000	15,000
41	Activities	Natural Resources Program	120,000	120,000				120,000	0
42		Water Monitoring-Lab Costs & Equip.	240,000	260,000				260,000	20,000
43		Research Projects	155,000	180,000				180,000	25,000
44		Project Operations	200,000	200,000				200,000	0
45		Education Program	70,000	50,000				50,000	(20,000)
46		Communications and Marketing	50,000	60,000				60,000	10,000
47		Events	51,000	56,000				56,000	5,000
48		Health & Safety Program/Staff In-House Training	4,000	4,000				4,000	0
49									
50	Capital Improvements	Maplewood Mall SRF Loan Debt Service	92,441		92,000			92,000	(441)
51	Summary	Beltline and Battle Creek Tunnel Repair Debt Service	302,963		302,963			302,963	0
52		Targeted Retrofit Projects	1,500,000		700,000	800,000	800,000	2,300,000	800,000
53		Stewardship Grant Fund	1,128,000		1,250,000			1,250,000	122,000
54		Double Driveway Water Quality Optimization Implementation	675,000		100,000	100,000	475,000	675,000	0
55		Project Repair & Maintenance	1,500,000		1,250,000	750,000		2,000,000	500,000
56		Wetland Restoration Projects	500,000		200,000	500,000		700,000	200,000
57		Flood Risk Reduction Fund	5,200,000		500,000	4,700,000		5,200,000	0
Totals			15,259,904	4,492,500	4,394,963	6,850,000	1,275,000	17,012,463	1,752,559

	Budget Total	Budget Total By Fund		Proposed Levy
		General Fund	CIB	
2024 Budget Total and totals by fund	17,012,463	4,492,500	12,519,963	7,267,463
2023 Budget Total and totals by fund	15,259,904	4,361,500	10,898,404	6,763,498
2024 Budget Increase or (Decrease) from 2023 Budget	1,752,559	131,000	1,621,559	503,965
2024 Budget % change from 2023 Budget	11.48%	3.00%	14.88%	7.45%

		(+)	(+)	(-)	(=)
		Projected '22	Proposed	Projected Other	Proposed
Fund Sources		Carry-Over	24 Levy	Income	24 Budget
General Fund		\$2,300,000	\$4,157,500	\$35,000	\$4,492,500
Capital improvements		\$8,125,000	\$3,109,963	\$10,000	\$12,519,963
Total		\$10,425,000	\$7,267,463	\$45,000	\$17,012,463
					\$2,000,000



## 2024 Budget Program Line Item Breakouts

Project Feasibility Studies (Line 5)	
Evaluate Compliance with South Metro Mississippi River TSS TMDL	\$20,000
Street Sweeping Study Evaluation	\$20,000
Retrofit Inventory and Assessment	\$60,000
Resiliency Study for non-Beltline Tributary Areas (future feasibility included)	\$150,000
Contingency	\$50,000
Total =	\$300,000

Outside Program Support (Line 37)	
Watershed Partners	\$10,000
Blue Thumb	\$3,000
East Metro Education	\$13,000
Cooperative Weed Management Program	\$10,000
GIS Users Group	\$1,000
Contingency	\$20,000
Total =	\$57,000

WMP, Lakes, TMDLs, Grants (Line 40)	
Grant Applications	\$20,000
Watershed Management Plan Updates (Engagement, Gaps Analysis)	\$80,000
West Vadnais Lake Incorporation	\$15,000
Subwatershed Feasibility Studies Prioritization	\$5,000
Carver Ponds Internal Load Reduction	\$12,000
Contingency	\$25,000
Total =	\$157,000

NR Program (Line 41)	
Ongoing Site Maintenance	\$25,000
Carp Management Program	\$30,000
Restoration Project Work	\$20,000
Equipment Needs	\$40,000
Contingency	\$5,000
Total =	\$120,000

Water Monitoring (Line 42)	
WQ Equipment Replacement and Repair	\$70,000
Lab Costs	\$100,000
Barr Engineering Monitoring Assistance and Reporting	\$30,000
Barr Engineering Special Project Monitoring Assistance	\$60,000
Total =	\$260,000

Research (Line 43)	
Minnesota Stormwater Research Council	\$50,000
Shallow Lakes Aeration Study Finalization	\$5,000
Kohlman Lake Aquatic Plant Management Effects Study	\$20,000
Ferric Chloride Application to Gervais Mill Pond	\$40,000
New Technology Reports	\$15,000
Internal Research/Contingency	\$50,000
Total =	\$180,000

Education/Events/Communications (Lines 45-47)	
Education and Work in Schools	\$50,000
Communications and Marketing	\$60,000
WaterFest	\$40,000
Watershed Excellence Awards	\$6,000
Events Contingency	\$10,000
Total =	\$166,000

Targeted Retrofits (Line 52)	
Roosevelt Homes (placeholder if not done in 2023)	\$650,000
Woodbury Target	\$950,000
Pioneer Park Stormwater Reuse	\$700,000
Total =	\$2,300,000

Project Repair and Maintenance (Line 55)	
2024 Project Repair and Maintenance Contract	\$625,000
Beltline Fix Near River Outfall	\$1,000,000
Routine Inspections and Unplanned Maintenance ID	\$125,000
BMP and NR Maintenance Program	\$250,000
Total =	\$2,000,000

Flood Risk Reduction Fund (Line 57)	
West Industrial Park Berm and Improvements (Owasso Basin area)	\$1,250,000
Ames Lake Area Improvements Design	\$250,000
PCU Pond Area Improvements Design	\$150,000
County Road C Culvert Capacity Implementation	\$200,000
Kohlman Creek Storage and Detention Design	\$150,000
Funding for Implementation of Flood Risk Reduction Projects in 2025	\$3,200,000
Total =	\$5,200,000

Items shown on these budget line item breakouts are subject to change. Projects are identified but may need adjustments or additional project opportunities with similar goals may be determined during the year.

## 2024 BUDGET NARRATIVE

Budget Line No.	Item & Description	Budget Amount	Change from '23 increase (decrease)
<b>General Fund Budget Summary:</b>			
1	<b>Engineering - Administration</b> Oversight of all District Engineering activities, supervising staff assigned to projects, responding to general inquiries of the public and the Board, and preparing correspondence and billings. Engineering attendance at meetings of the District- covers Board and related project meetings, mini case studies, data collection, analysis, preparation of reports as requested by the managers and assisting in District water management planning activities. This also includes preparation for board workshop topics as requested.	132,000	0
2	<b>Engineering - Review</b> Review and comment on plans and proposals submitted to the District for review relative to District regulations, policies and concerns. Assist communities and counties with data and information needs related to projects and plans.	75,000	5,000
3	<b>Engineering - Permit Application Review and Processing</b> Provides for Engineering assistance in review of all permit applications, clarifying problems with the developer, meet developer on-site, coordinate permit issues with communities, counties, and other regulatory bodies.	65,000	6,000
4	<b>Engineering - Permit Inspection &amp; Enforcement</b> Inspect projects when a designed improvement is involved and requested by District staff.	10,000	0
5	<b>Engineering - Project Feasibility Studies</b> This item provides a budget item for annual feasibility studies in preparation of future capital improvement projects. See Program Budget Line Item Breakout table.	300,000	(95,000)
6	<b>Engineering - GIS Maintenance</b> Provides funds for maintenance and assistance of the District GIS system.	5,000	0

<b>Budget Line No.</b>	<b>Item &amp; Description</b>	<b>Budget Amount</b>	<b>Change from '23 increase (decrease)</b>
8	<b>Attorney - General</b> Legal advice at meetings, research on various issues for Board consideration, preparation and publication of legal notices, preparation of Board resolutions, and other matters requiring legal counsel.	40,000	0
9	<b>Attorney - Permit Enforcement</b> Legal advice on permit sites including enforcement activities, letter and legal action as necessary.	5,000	0
11	<b>Manager per Diems</b> Manager per diems for regular and special meeting attendance. Increased budget due to increase in state statute amount allowed for manager per diems.	7,000	0
12	<b>Manager Expenses</b> Manager Expenses incurred in the performance of official manager duties, such as attendance at conferences and meetings and related expenses.	3,000	0
14	<b>Auditor/Accounting</b> Preparation of the District's annual audit and provide monthly accounting services.	80,000	5,000
16	<b>Dues &amp; Publications</b> Dues for appropriate organization memberships (MAWD, League of MN Cities, etc.) and for purchase of necessary publications and reference materials.	15,000	0
17	<b>Insurance</b> District General Liability, Property/Casualty, Public Official Liability insurance, etc.	65,000	5,000
18	<b>Committee &amp; Board Meeting Expenses</b> Budget to cover miscellaneous expenses related to the duties and activities of District advisory committees, such as, meeting refreshments, supplies, public information materials, etc.	3,500	0

<b>Budget Line No.</b>	<b>Item &amp; Description</b>	<b>Budget Amount</b>	<b>Change from '23 increase (decrease)</b>
19	<b>Miscellaneous Expenses</b> Expenses of the District not elsewhere classified. Examples include: miscellaneous financial charges and expenses, District tour expenses, pass through expenses, etc.	5,000	0
21	<b>Staff Salaries, Taxes &amp; Benefits</b> Includes salary, taxes, insurance and benefits for existing full time staff plus summer interns. This budget includes an allowance for a salary increases and increased benefit costs.	2,000,000	140,000
22	<b>Employee Expenses</b> This includes mileage, parking, and supply expenses incurred by the District's staff.	10,000	(5,000)
23	<b>Janitorial/Trash Services/Snow Removal</b> Contract services required for office building and winter snow removal.	15,000	0
24	<b>Building Maintenance</b> Building repairs, equipment and landscape maintenance expenses.	100,000	(25,000)
25	<b>Utilities</b> (gas, electric, water, sewer) Provides for office building utility expenses.	20,000	(10,000)
26	<b>Office Supplies</b> Office supply costs for district operations.	7,000	0
27	<b>Copying/Printing</b> Photocopying and commercial printing expenses.	5,000	0
28	<b>Postage/Delivery</b> District postage and delivery expenses.	2,000	0
29	<b>Office Furniture and Computer Equipment</b> Acquisition of necessary new and replacement office equipment and furniture.	80,000	(20,000)



<b>Budget Line No.</b>	<b>Item &amp; Description</b>	<b>Budget Amount</b>	<b>Change from '23 increase (decrease)</b>
30	<b>Office Equipment Maintenance</b> To fund office equipment maintenance.	2,000	0
31	<b>Training/Education</b> Training and education expenses for the District staff including pursuing equity/inclusion work.	75,000	0
32	<b>Telephone</b> District telephone expenses. Includes office phone system and support costs.	2,000	0
33	<b>Vehicle Replacement, Equipment and Maintenance</b> Provides for fleet maintenance and equipment as well as a new vehicle purchase.	60,000	20,000
34	<b>GIS System Maintenance &amp; Equipment</b> Removing this line item and combining with the Database Improvements line below.	0	(5,000)
35	<b>Database &amp; GIS Maintenance and Equipment</b> Provides for improvements to district database programs for permit program, stewardship grant program, inspections and timesheets. Also includes GIS system needs.	20,000	0
36	<b>IT Services/Internet/Web Site/Software Licenses</b> Provides for maintenance and upgrades to computer network and software upgrades.	100,000	15,000
37	<b>Outside Program Support</b> Provides budget for financial support of programs that provide support to the District and its goals. See attached list.	57,000	0
38	<b>Outside Consultant Services</b> Provides funds for contracting special services with outside consultants as needs arise in the year. This includes DEIA work consultants.	40,000	20,000

<b>Budget Line No.</b>	<b>Item &amp; Description</b>	<b>Budget Amount</b>	<b>Change from '23 increase (decrease)</b>
40	<b>WMP, Lakes, TMDLs, Grants</b> This item is for various water body studies and related topics. See Program Budget Line Item Breakout table.	157,000	15,000
41	<b>Natural Resources Program</b> This item includes funding for project to enhance ecological diversity within the District – habitat restoration projects, site maintenance, studies and research.	120,000	0
42	<b>Water Quality Monitoring</b> Includes lab costs and equipment for lake sampling, BMP monitoring and performance monitoring. See attached list for breakdown.	260,000	20,000
43	<b>Research Projects</b> This account provides funds for conducting research into various water and resource management issues and problems. The budget includes contributions to the Minnesota Stormwater Research (MSR) program as well as the potential projects shown in the attached Program Budget Line Item Breakout table.	180,000	25,000
44	<b>Project Operations</b> This budget provides funds for the ongoing operational costs for District projects that incur utility or supply costs. Some examples include the auto lake level monitoring systems as well as the Keller Channel Weir and Phalen Outlet modification operations.	200,000	0
45	<b>Educational Programming</b> Production of materials and programs designed to improve the understanding and knowledge of the school children, general public, city and county staff, developers and others of the District's programs and watershed management. This includes continued support of Master Water Stewards Program as well as support of the Adopt-a-Drain program.	50,000	(20,000)

<b>Budget Line No.</b>	<b>Item &amp; Description</b>	<b>Budget Amount</b>	<b>Change from '23 increase (decrease)</b>
46	<b>Communications and Marketing</b> This will be used to support our communications and marketing plan including updates to printed materials, accessibility audit of our digital platforms, and a community survey.	60,000	10,000
47	<b>Events</b> Provide funds for the annual WaterFest program and Watershed Excellence Awards program.	56,000	5,000
48	<b>Health &amp; Safety Program/Staff In-house Training</b> Provides funds to support the District staff safety program, training costs, equipment.	4,000	0

**Capital Improvement Budget Summary:**

50	<b>Maplewood Mall SRF Loan Debt Service</b> Annual payment for the State Revolving Fund (SRF) loan for Maplewood Mall Phase IV project.	92,000	(441)
51	<b>2016 Beltline and Battle Creek Tunnel Repair Debt Service</b> This is the principal and interest payment for a bond issue approved in 2016.	302,963	0
52	<b>Targeted Retrofit Projects</b> This budget is to fund projects that have been targeted by the District as a priority project for water quality and natural habitat. Projects are vetted in the current year and potential project implementations are planned for 2024. Projects with the most potential at this time are planned for. Other projects identified to meet the goals for targeted retrofits may also present themselves over the next year. Staff will manage projects within the proposed Targeted Retrofit Projects budget and present them to the board as they develop. See Program Budget Line Item Breakout table.	2,300,000	800,000

<b>Budget Line No.</b>	<b>Item &amp; Description</b>	<b>Budget Amount</b>	<b>Change from '23 increase (decrease)</b>
53	<b>Stewardship Grant Fund</b> Provide funds for cost-share assistance to local partners, churches, public and private developers and homeowners for funding of volume reduction, habitat restoration, and other practices above the requirements of District rules.	1,250,000	122,000
54	<b>Double Driveway Water Quality Optimization Implementation</b> This is a capital improvement project that may materialize out of the 2022 feasibility study of the same name. This is a water quality project in the Fish Creek subwatershed to target sediment based on the impairment the creek has.	675,000	0
55	<b>Project Repair and Maintenance</b> Provides funds for the maintenance of District projects and trunk conveyor system. Also includes funds for continuation of a BMP maintenance program and a contingency fund. See Program Budget Line Item Breakout table.	2,000,000	500,000
56	<b>Wetland Restoration Projects</b> This is a placeholder for the board to consider for projects that would include wetland restoration work.	700,000	200,000
57	<b>Flood Risk Reduction Fund</b> Provides funds for flood control projects including acquisition or flood proofing of existing flood prone structures. Assistance to cities to reduce flood risks in areas identified by District modeling of Atlas 14 storm events could also be included. This fund pools money for projects that meet the board's flood risk reduction goals. Funds are also held in reserves for other project opportunities that may arise. See the Program Budget Line Item Breakout table.	5,200,000	0



## Memorandum

**To:** Board of Managers and Staff  
**From:** Tina Carstens, Administrator  
**Subject:** **Wetland Workshop Follow-Up: Wetland Restoration Planning**  
**Date:** August 2, 2023

### Background

Over the last several years, the board has received information on wetlands and the role of the watershed district in managing them. At the April 5, 2023, meeting, a presentation was given to bring the current board up to speed and determine the next steps in our wetland planning efforts. At that meeting, it was agreed that there are three areas you wanted more information on; bounce and inundation standards for permitting, wetland monitoring programs, and wetland restoration planning.

To continue the wetland restoration planning discussion, I have included a study completed at the end of 2021 and presented to the board at the time. This study looked throughout the district for potential wetland restoration sites. See attached. Staff uses this work to explore opportunities for wetland restoration work. This is a similar process as we use in our Targeted Retrofit program to identify and prioritize project opportunities.

At the same time as this study was being conducted, a potential wetland restoration site was identified during a visit to a site in Shoreview. The project location was a church adjacent to a city outlot with a wetland on it. District staff, the adjacent landowner, and the city started to explore the possibility of restoring the existing wetland and expanding the area to create a new wetland. This project is titled Cottage Place Wetland Restoration. Project plans were developed, and a budget line item for wetland restoration work was added. You will see that in the current budget as carry-over funds. Shortly afterward, the board decided not to proceed with the project until more information on wetlands was presented.

I have attached some items related to the Cottage Place Wetland Restoration. This is preliminary information for you, and then I would suggest we have a more in-depth presentation on the project at our September meeting and visit the site ahead of that meeting. Staff would like to use the wetland restoration funds to complete this project in 2024. Staff believes this to be a good project to pilot the efforts of the district to increase wetland areas within our district and improve the quality of existing wetlands.



## Technical Memorandum

**To:** Ramsey-Washington Metro Watershed District (District)  
**From:** Barr Engineering Co. (Barr)  
**Subject:** Wetland Restoration Site Search  
**Date:** December 28, 2021

**DRAFT**

### 1.0 Overview and Background

#### Wetland Assessments

Barr has assisted the District with wetland evaluations for many years. Initially, in 2003, Barr's wetland scientists worked with District staff to complete functional assessments of all wetlands within the watershed using the Minnesota Routine Assessment Method for Evaluating Wetland Functions (MNRAM). In 2013, we conducted additional MNRAM assessments on all wetlands within the Grass Lake watershed when it was acquired by the District.

The assessments were part of an effort to update and improve the District's wetland management program, including determining wetland management classifications, digital mapping of wetlands using ArcView GIS software, and creating a spatial database. The database provides the District with comprehensive wetland function and quality data. The result is an easy-to-use web-based tool for improving day-to-day wetland management and regulatory program administration.

#### Wetland Restoration Opportunities

In 2019, the District asked Barr to conduct a desktop review to identify potential wetland restoration sites throughout the District. Currently, there are no wetland banks within the District (which has a "no-net-loss" policy for wetlands within its boundaries), and changes in the Minnesota Wetland Conservation Act (WCA) result in wetland replacement locations outside of the District. Identifying areas within the District that could be established as wetland bank sites or targeted for site-specific wetland replacement can help development project proponents meet state and watershed rules.

Our search focused on finding opportunities with the potential to help achieve watershed goals and sustainable wetland communities. Using data from previous wetland assessments and other available desktop data, we identified high-priority areas within each subwatershed, where restoring degraded wetlands will help achieve watershed goals. Barr identified 139 potential wetland restoration areas throughout the District, evaluated the potential actions eligible for credit for each potential restoration site, and completed a site-prioritization analysis using a base-level scoring system with additional prioritization factors important to the District, including the following:

- Adjacent habitats
- Buffers and habitat connectivity

- Flood storage potential
- Potential to benefit water quality
- Proximity to other protected lands
- Groundwater sensitivity
- Projected land use
- Size and ease of restoration
- Number of landowners
- Equity initiative areas
- Value-added community amenities
- Willing partnership
- Other opportunities that fulfill district goals and community needs

Some sites are sufficient in size with suitability to be a wetland bank. Other sites may not be suitable for bank establishment; however, they are identified as an option for site-specific wetland replacement to meet District rules.

Barr completed the initial wetland restoration site search in September 2019. We evaluated the potential actions eligible for credit at each site and completed the GIS site-prioritization analysis according to the base scoring system with available additional prioritization information. We prepared a summary of findings for the September 2019 Board of Managers meeting—to discuss proposed prioritization methods and request recommendations for prioritization.

### **Flooded Wetlands Assessments**

During the September 2019 District Board of Managers meeting, the Managers expressed concern regarding the potential degradation of wetlands due to long-term flooding in the Grass Lake area. Managers requested a change in project scope to include a reassessment of flooded wetlands. On October 18, 2019, Barr used MNRAM to reassess 16 wetlands within the Grass Lake and Snail Lake area and compared these results with previous assessments during 2013 normal hydrologic conditions. We prepared a 2013–2019 comparison summary memo and provided recommendations for future management and protection to the Board of Managers in December 2019.

### **Continued Discussion**

A follow-up Board of Managers wetland workshop meeting was planned for January 2020 to discuss impacts of wetlands on prolonged flooding, wetland restoration site-search results and planning, and WCA wetland replacement siting. This workshop was postponed to April 2020 and then put on hold due to the pandemic.

Continued discussion around wetland restoration continues to be a priority for the District. This technical memorandum summarizes the previous wetland restoration site-search results and prioritization, which can be used for discussion and prioritization efforts in 2022.

## **2.0 Reasons for Conducting a Wetland Restoration Site Search**

The search for potential wetland restoration sites within the District began in 2019 due to the following contributing factors:

- Changes in the Minnesota Wetland Conservation Act (WCA) rules and statute focus wetland replacement outside the District.

WCA Statute changes:

- The 2015 WCA statute eliminated the requirement for impacts in the seven-county metropolitan area to be replaced in the seven-county metropolitan area.
  - The 2015 statute also includes a change in wetland replacement siting, which skips the first two priorities: 1) replacing on-site or in the same minor watershed and 2) replacing in the same major watershed as the impacted wetland if replacement is through banking. Therefore, the priority order begins at replacement in the same county or wetland bank service area (BSA). This will not become effective until established in the new WCA rules, expected soon.
  - The 2017 WCA statute eliminated "county" as a factor in the priority order, and pre-settlement areas are no longer a restriction for replacement proposed within the same BSA. The high-priority areas for wetland replacement currently designated by the Minnesota Board of Water and Soil Resources (BWSR) are generally outside the District and the Twin Cities metropolitan area.
  - When the new WCA rules are established, applicants can replace wetlands anywhere in the BSA without regard to the vicinity of the impact location. For example, BSA 7 extends into parts of Aitkin County and Renville County, so a wetland impact in Ramsey County could potentially be replaced 100 miles away.
- The District's policy is no-net-loss of wetlands. In addition, under District Rule E(2)(a)(2), wetland replacement (both constructed and banked) locations are prioritized as follows:
    - On-site
    - Within the same subwatershed
    - Within the District
    - Outside of the District (least preferred)
  - There are currently no wetland bank sites within the District. Generally speaking, throughout Minnesota, project-specific wetland replacements have often been unsuccessful. These are often excavated areas that may not be suitable or sustainable for wetland development. Sites in the

metropolitan area typically experience invasion from adjacent non-native vegetation and are not large enough to be self-sustaining and maintain sufficient wetland functions. In addition, applicants often fail to follow through with their responsibilities to monitor and maintain a wetland replacement site to meet designated performance standards.

- Under Minnesota Rules 8420.0522 Subpart 7 F, regulatory agencies, local government units, and other entities involved in wetland restoration must collaborate to identify potential replacement opportunities within their jurisdictional areas.

Because changes in the WCA result in wetland replacement locations outside of the District, and because the District stands by its no-net-loss policy, it is worthwhile to look throughout the District for wetland restoration options. Potential wetland restoration areas identified by the District can help applicants meet both WCA and District rules. Ideal sites are sufficient in size and suitability to be a wetland bank. However, even sites that are not suitable for bank establishment can be identified as an option for site-specific wetland replacement to meet District rules. In addition, sites that don't qualify for replacement credit may still be worthwhile for improving degraded wetlands to help achieve District watershed goals.

The tasks involved in identifying potential wetland restoration sites are described below.

### **3.0 Site Evaluation Methods**

**Task 1** – Reviewing potential wetland restoration sites identified from previous MNRAM wetland assessments and evaluating their potential for wetland bank sites, project-specific wetland replacement, or other restoration opportunities. Barr identified some sites when completing MNRAMs for the Grass Lake Watershed in 2013. For Task 1, we used MNRAM results to identify degraded wetlands, existing high-quality wetlands, and high-priority areas for wetland restoration throughout the District.

**Task 2** – Completing a desktop analysis within the District legal boundaries using available data sets, including the following:

- Hydric soil mappings
- LIDAR topography
- Digital elevation model data
- National Wetland Inventory areas indicated as having been ditched, drained, or partially drained
- Hydric soils mappings in areas not identified as a wetland in the MNRAM or NWI
- Areas with hydric soil adjacent to existing wetlands
- Restorable Wetland Inventory areas identified by the Natural Resources Research Institute
- Land ownership
- USGS topographic maps
- Multiple years of aerial imagery

- Habitat connectivity
- Other data sets to identify potential wetland restoration areas

We also used existing data from previously completed broad-scale evaluations and identified high-priority areas by subwatershed where restoring previously degraded wetlands would contribute to watershed goals.

**Task 3** – Preparing a summary of results that identify potential wetland restoration areas evaluated by the potential actions eligible for credit for each potential wetland restoration site. These areas were prioritized using a base-level scoring system and additional prioritization factors for values important to the District:

- Adjacent habitats
- Buffers and habitat connectivity
- Flood storage potential
- Potential to benefit water quality
- Connectivity with or between important resources
- Proximity to other protected lands
- Groundwater sensitivity
- Projected land use
- Size and ease of restoration
- Number of landowners
- Equity initiative areas
- Value-added community amenities
- Willing partnership
- Other opportunities that fulfill district goals and community needs

## 4.0 Site Prioritization

**Figure 1** shows the location of each of the 139 potential wetland restoration areas within the District. Of the 139 sites identified, we developed an initial scoring system for prioritization in 2019. The base-level scoring system used ratings based on the MNRAM, which include the following:

- Order by size within each subwatershed:
  - 0.1 rating for Small = <1 acre (unless multiple polygons can be combined for one site)
  - 0.5 rating for Medium = 1 to <5 acres
  - 1.0 rating for Large = 5 to 40 acres

- Credit potential
  - Restoration of completely drained or filled wetland areas (MN Rule 8420.0526 Subpart 3) can receive up to 100% credit
  - Restoration of partially drained or filled wetland areas (Subpart 4)
    - A. Cropped, up to 100% credit
    - B. Substantially degraded by partial drainage (ditching, drain tiles, groundwater pumping, lowered outlet elevations, watershed diversion) or fill, up to 50% credit
  - Upland buffer (Subpart 2)—Not evaluated yet; typically 25% credit, maximum 50% credit in special cases, minimum width requirement
  - **Figure 2** provides an estimate of potential credit percentage that each area may receive
  - Can determine an estimated credit potential by combining approximate size and % credit information and then prioritize by:
    - 0.1 rating for small = <1 credit
    - 0.5 rating for medium = 1 to <5 credits
    - 1.0 rating for large = 5 credits or more (5 credits is the minimum for US Army Corps of Engineers [USACE] certification of a bank site)
    - These credit ratings are shown for each potential restoration area in **Figure 3**.
- Ease of restoration
  - 1.0 rating for high-potential sites—break tile line, plug ditch, discontinue pumping, change inlet/outlet elevation
  - 0.5 rating for medium-potential sites—break multiple tile lines and or plug ditch plugs, hydrologic diversion
  - 0.1 rating for low-potential sites—diking, berming, excavation, or grading
- Land ownership
  - 2.0 rating for exceptional potential—all public ownership
  - 1.0 rating for high potential—one landowner
  - 0.5 rating for medium potential—two landowners
  - 0.1 rating for low potential—three or more landowners
  - **Figure 4** shows these land ownership ratings for each potential restoration area
- Restoration without flooding neighbors or existing infrastructure—required

Figure 5 labels the unique identification number of each potential wetland restoration area. Figures 1 through 5 using these base scores (attached), were provided in 2019. In 2019, we also provided a GIS



shapefile, kmz, and prepared a table with the results of each of the 139 sites. For reference, the unique identification number labels in **Figure 5** correspond with the same unique identification numbers in Table 1.

We identified additional prioritization factors (known or readily available) in the summary table and GIS shapefile for each of the 139 sites, which include the following:

- Equity initiative areas
  - 2.0 points for ACP50
  - 1.0 points for ACP
- Value-added community amenities—1 point for yes
- Current degradation condition, trash, dump, clean-up site—1 point for yes
- Habitat restoration opportunities that fulfill District goals and community needs—1 point for yes
- Connection opportunities between multiple potential restoration areas—1 point for yes
- Willing partnerships—required, 1 point if known yes
- Flood storage potential—1 point for yes
- High-priority subwatershed areas where restoring previously degraded wetlands will contribute to achieving watershed goals—1 point for yes
- Potential to benefit water quality, water quality priority areas based on impaired water—1 point for yes
- Adjacent habitat connectivity—1 point for yes
- Projected land-use, known redevelopment area, tax forfeit, abandonment or demolition plans, low-use parking lot or park—1 point for yes
- Connectivity with or between important resources—1 point for yes
- Proximity to other protected lands, natural resources, and special features such as the following existing features identified within the District—1 point for each yes:
  - Minnesota Biological Survey sites of outstanding or high biodiversity significance and native plant communities
  - Mississippi River critical area
  - Groundwater sensitivity and wellhead protection areas
  - MNDNR scientific and natural area
  - DNR fisheries land
  - Central Region—Regionally ecologically significant areas and Central Region green infrastructure

- Aquatic management area,
- Parks and trails
- Schools
- Impaired waters
- Mussel survey sites
- Wild rice location
- MN DNR relevè sites
- Potential areas with threatened, endangered, and special-concern species
- Rare natural communities

## 5.0 Revised Prioritization Scoring Recommendations

Since the scale of the baseline scoring system used in the MNRAM (0.1=low, 0.5=medium, and 1.0 = high) is not consistent with the additional prioritization factor point system, we recommend aligning the baseline scoring system with the additional prioritization factor point system. We have used a similar point system for baseline scoring of large-scale evaluations in northern Minnesota. This would provide 1 point for a low rating, 2 points for a medium rating, and 3 points for a high rating in each of the baseline scoring categories.

The attached revised Table 1 and Figure 6 use this recommended revised scoring system, which allows for overall ratings using all prioritization factors evaluated.

## 6.0 Results

Barr identified 139 potential wetland restoration polygons through an analysis using Task 1 and Task 2 methods described in Section 3. These potential wetland restoration areas are within each municipality in the District and within all of the District subwatersheds, except the St. Paul Beltline.

- The size of the restorable wetland area and the potential credits it provides is often a deciding factor in whether a restoration effort is worthwhile. Of the 139 polygons identified:
  - Forty-three of the potential wetland restoration polygons are less than 1 acre. However, many of these could be grouped into larger general areas with multiple polygons in the same area connected to existing wetlands or water bodies.
  - Thirty-one potential sites are larger than 5 acres. A wetland bank site would need to generate at least 5 credits. However, some sites may only receive 50% credit.
  - Six potential restoration sites are larger than 20 acres.
  - The following is a preliminary summary of the largest potential sites identified:

- We identified approximately 70 acres within Central Park (Victoria and Dale) and Muriel Sahlin Arboretum east of Bennett Lake as partially drained/ditched wetlands that could receive 50 percent credit for restoration.
  - We identified approximately 25 acres within Ladyslipper Park, south of Lake Owasso, as partially drained/ditched wetlands that could receive 50 percent credit for restoration.
  - We identified approximately 30 acres at the east edge of Kohlman Lake as partially drained/ditched wetlands that could receive 50 percent credit for restoration. Five additional polygons, totaling 28 acres within the Kohlman Lake and Kohlman Creek area, could be included with a restoration project.
- The identified potential restoration areas appear to have been degraded due to typical types of hydrologic alteration such as ditching, drain tiles, or filling.
  - Awareness of the following additional activities could provide identification of other potential restoration areas:
    - Groundwater pumping
    - Lowered outlet elevations
    - Watershed diversion
    - Parks and/or ballfields that may be abandoned
    - Unused parking lots
    - Tax-forfeit properties
    - Demolitions planned
    - Redevelopment areas
    - Green infrastructure corridors

**Table 1** and **Figure 6** provide the results of each potential wetland restoration area based on the recommended revised scoring methodology described in Section 5 and highlights the top nine sites (highest overall rating scores), which are also shown in Figure 7. For reference, each polygon in Figure 7 is labeled with the unique wetland identification number used in Table 1. Note that some information about potential restoration opportunities is unknown, so the results can change as more information becomes available. In addition, wetland restoration opportunities may be prioritized differently according to specific project needs. For example, combining multiple polygons with high overall ratings may provide a practical option for establishing one wetland bank site.

## 7.0 Recommendations

Presently, this tool is essentially providing a screening level that is not tuned to the details of each individual site and its unique opportunities and challenges. As specific restoration site details are discovered, we can add prioritization information to provide more detail the characterization of any individual site. Also, this tool is still in draft form- additional wetland restoration areas could be identified according to other criteria not included in the prioritization tool to date. Continued discussion with District staff and Managers can help us identify and prioritize these opportunities.

Since conducting the initial wetland restoration site search in 2019, Barr has worked with the District to create a project-prioritization tool based more specifically on District goals for water quality, flood protection, and other proposed District projects, as identified in the Watershed Management Plan. The wetland restoration sites could be further prioritized in this manner to clarify specific District goals for each site. Additional work is needed to redefine and reorganize the data in this tool. Doing this would help maintain the data and provide a more organized method for continuous updates and prioritization of wetland restoration opportunities within the District as more information is gathered and land-use changes occur.

This prioritization tool can guide project proponents toward opportunities in line with District wetland replacement siting priorities and help meet District watershed goals.



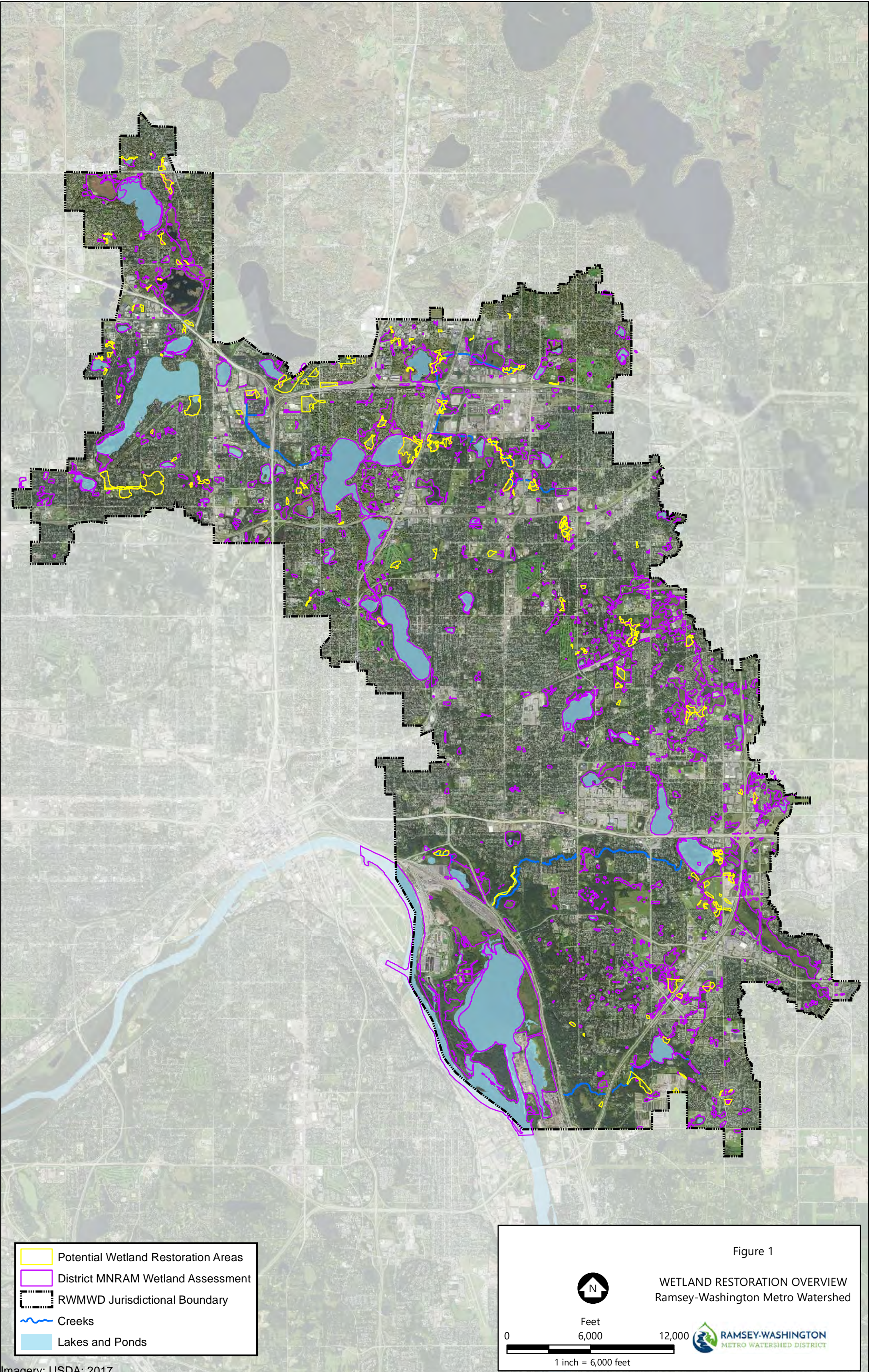


Figure 1

WETLAND RESTORATION OVERVIEW  
Ramsey-Washington Metro Watershed



Feet

6,000

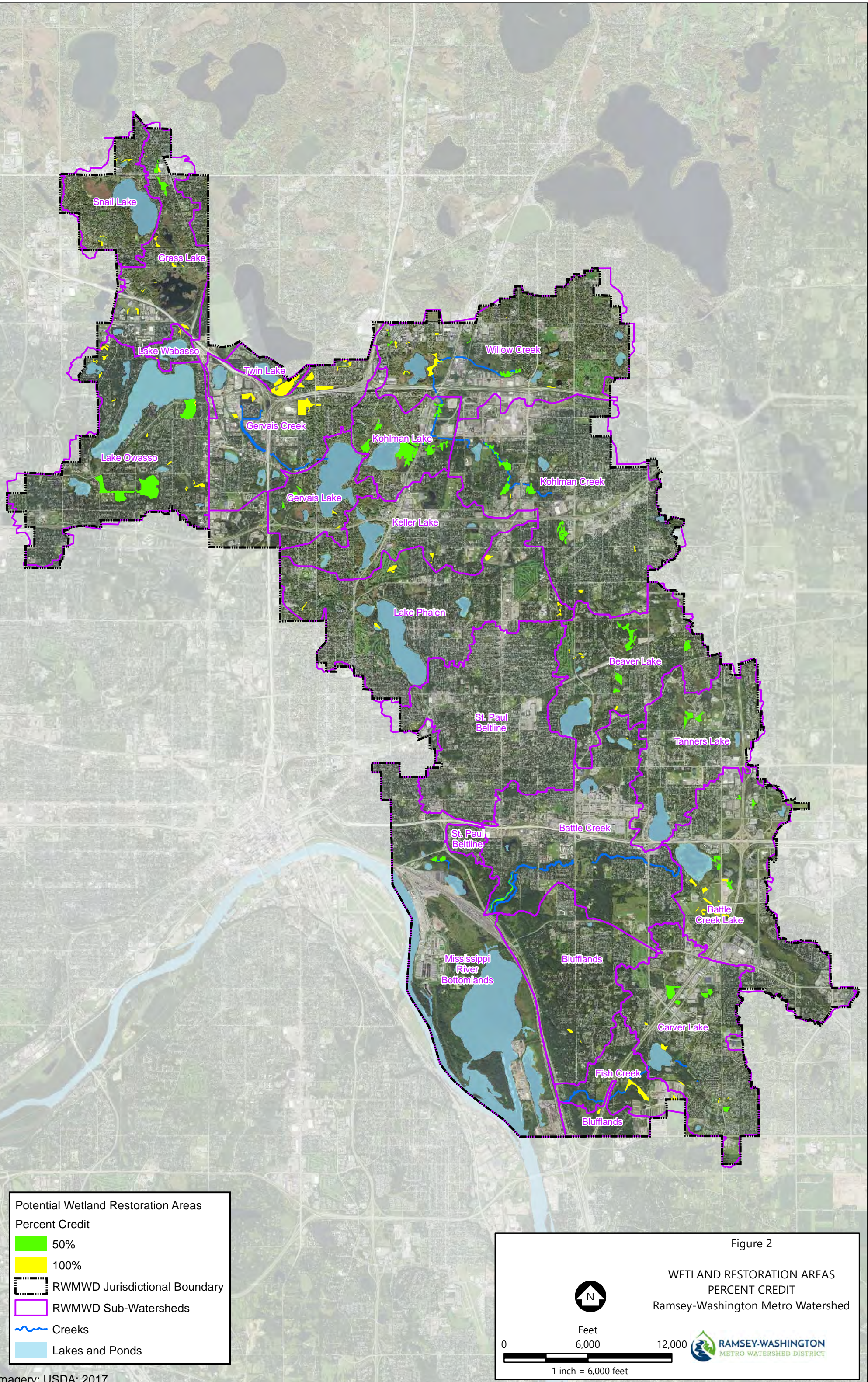
12,000



RAMSEY-WASHINGTON  
METRO WATERSHED DISTRICT

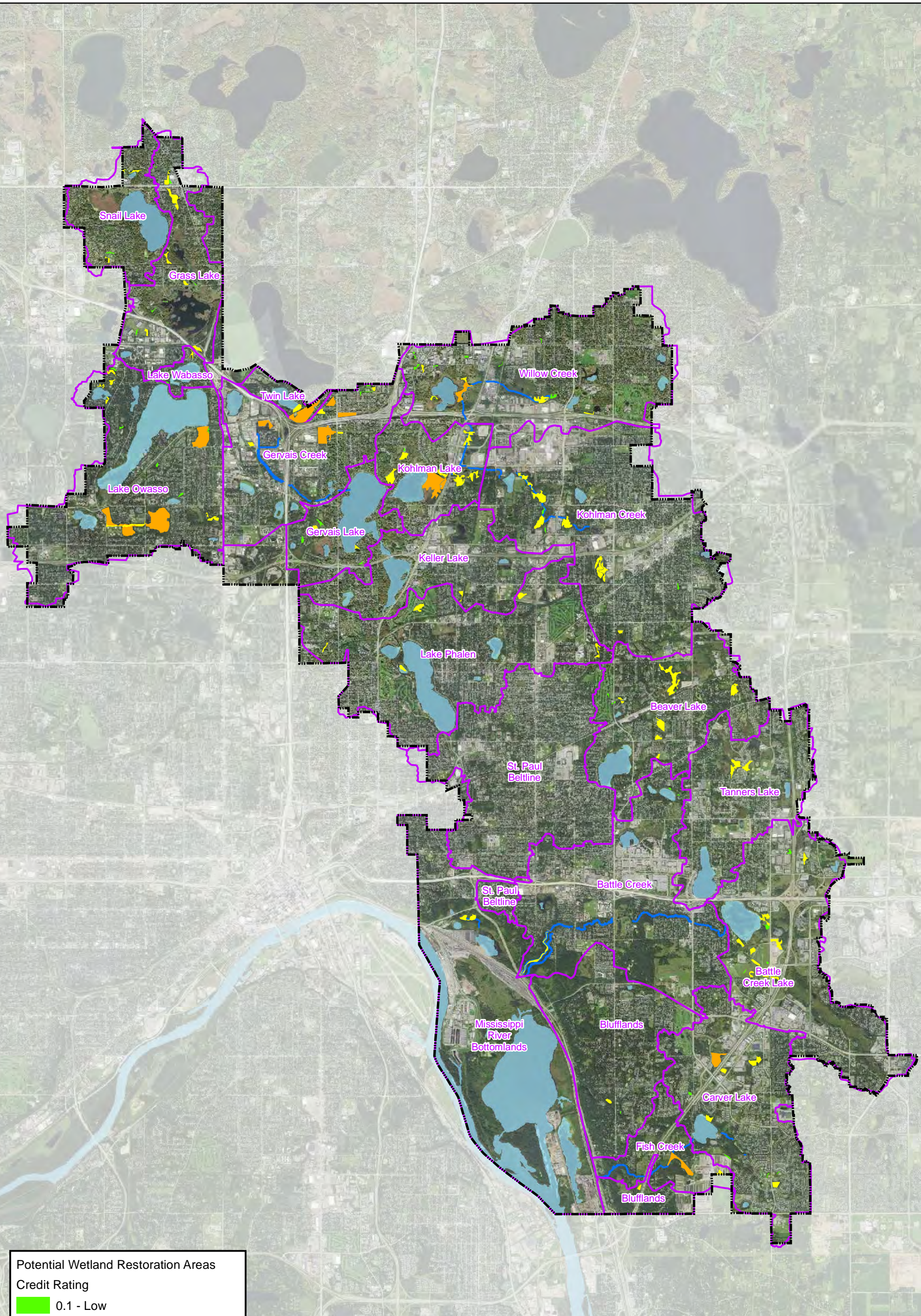
1 inch = 6,000 feet







Barr Footer: ArcGIS 107.1, 2019-09-30 11:19 File: \\Client\\Ramsey\_Washington\_Metro\_WD\\Work\_Orders\\2019\_Wetland\_Restoration\_Site\_Search\\Maps\\Reports\\Packet\_Submittal\_Sept25\\Figure 3 - Restoration Areas - Credit Rating.mxd User: JRV



Potential Wetland Restoration Areas

Credit Rating

- 0.1 - Low
- 0.5 - Medium
- 1 - High

RWMWD Jurisdictional Boundary

RWMWD Sub-Watersheds

Creeks

Lakes and Ponds

Figure 3

WETLAND RESTORATION AREAS  
CREDIT RATING  
Ramsey-Washington Metro Watershed

Feet

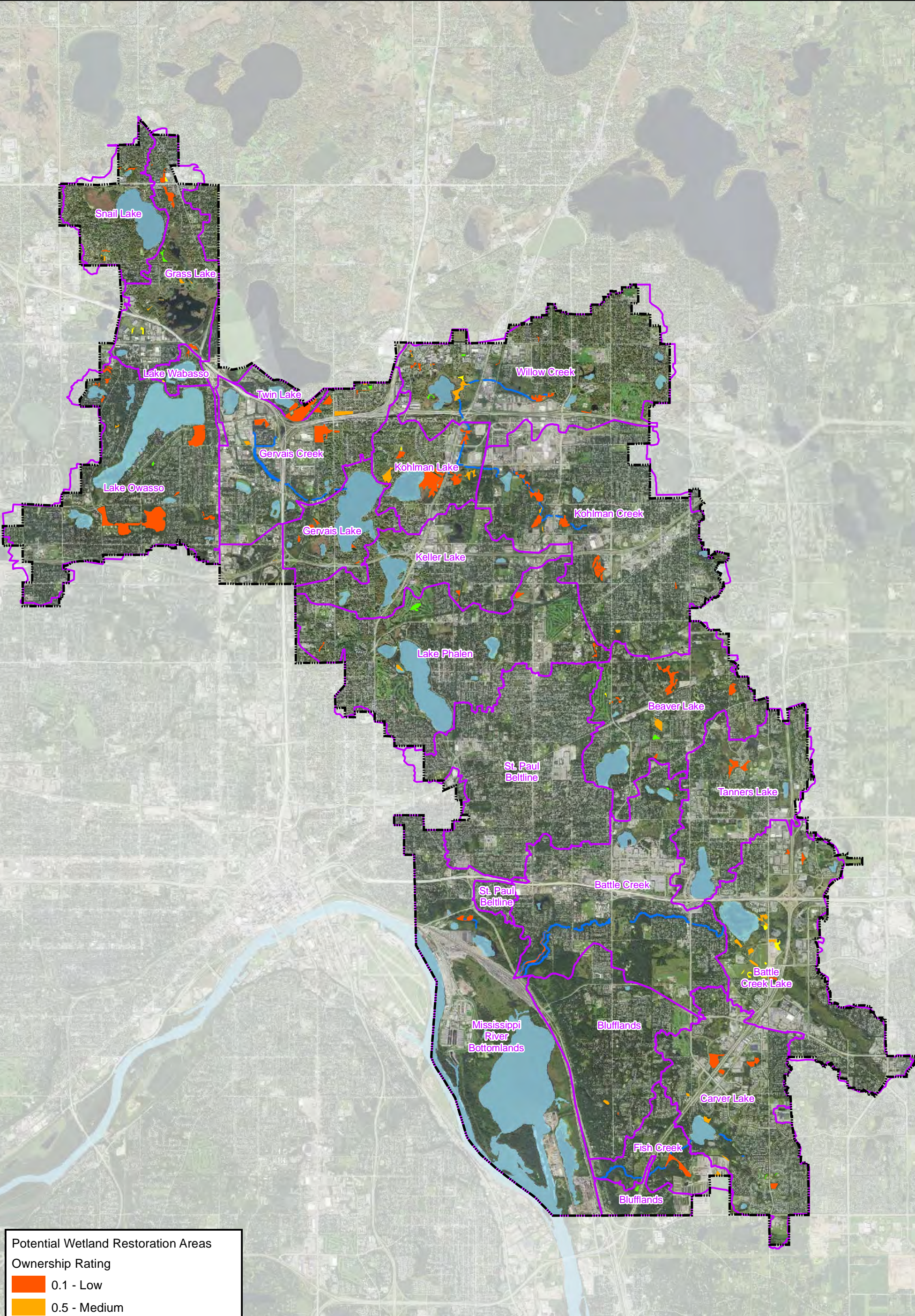
0 6,000 12,000

1 inch = 6,000 feet

RAMSEY-WASHINGTON  
METRO WATERSHED DISTRICT



Barr Footer: ArcGIS 10.7.1, 2019-09-30 11:20 File: \\Client\\Ramsey\_Washington\_Metro\_WD\\Work Orders\\2019\_Wetland\_Restoration\_Site\_Search\\Maps\\Reports\\Packet\_Submittal\_Sept25\\Figure 4 - Restoration Areas - Land Ownership Rating.mxd User: JRV



Potential Wetland Restoration Areas

Ownership Rating

- 0.1 - Low
- 0.5 - Medium
- 1 - High
- 2 - Exceptional

RWMWD Jurisdictional Boundary

RWMWD Sub-Watersheds

Creeks

Lakes and Ponds

Figure 4

WETLAND RESTORATION AREAS  
OWNERSHIP RATING  
Ramsey-Washington Metro Watershed

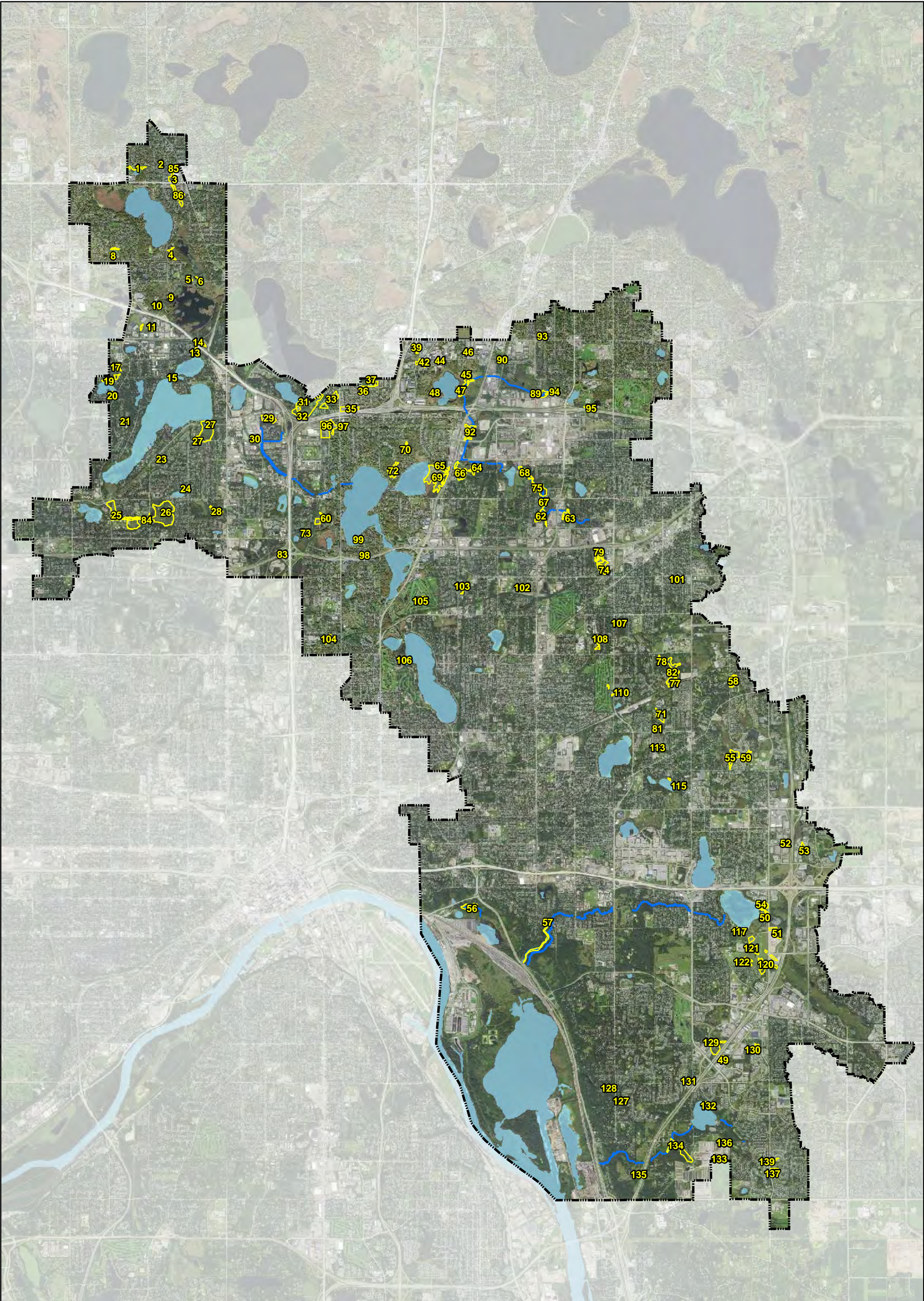
Feet

0 6,000 12,000

1 inch = 6,000 feet

RAMSEY-WASHINGTON  
METRO WATERSHED DISTRICT





Potential Wetland Restoration Areas

RWMWD Jurisdictional Boundary

Creeks

Lakes and Ponds


Figure 5

WETLAND RESTORATION AREAS WITH  
UNIQUE IDENTIFICATION LABELS  
Ramsey-Washington Metro Watershed

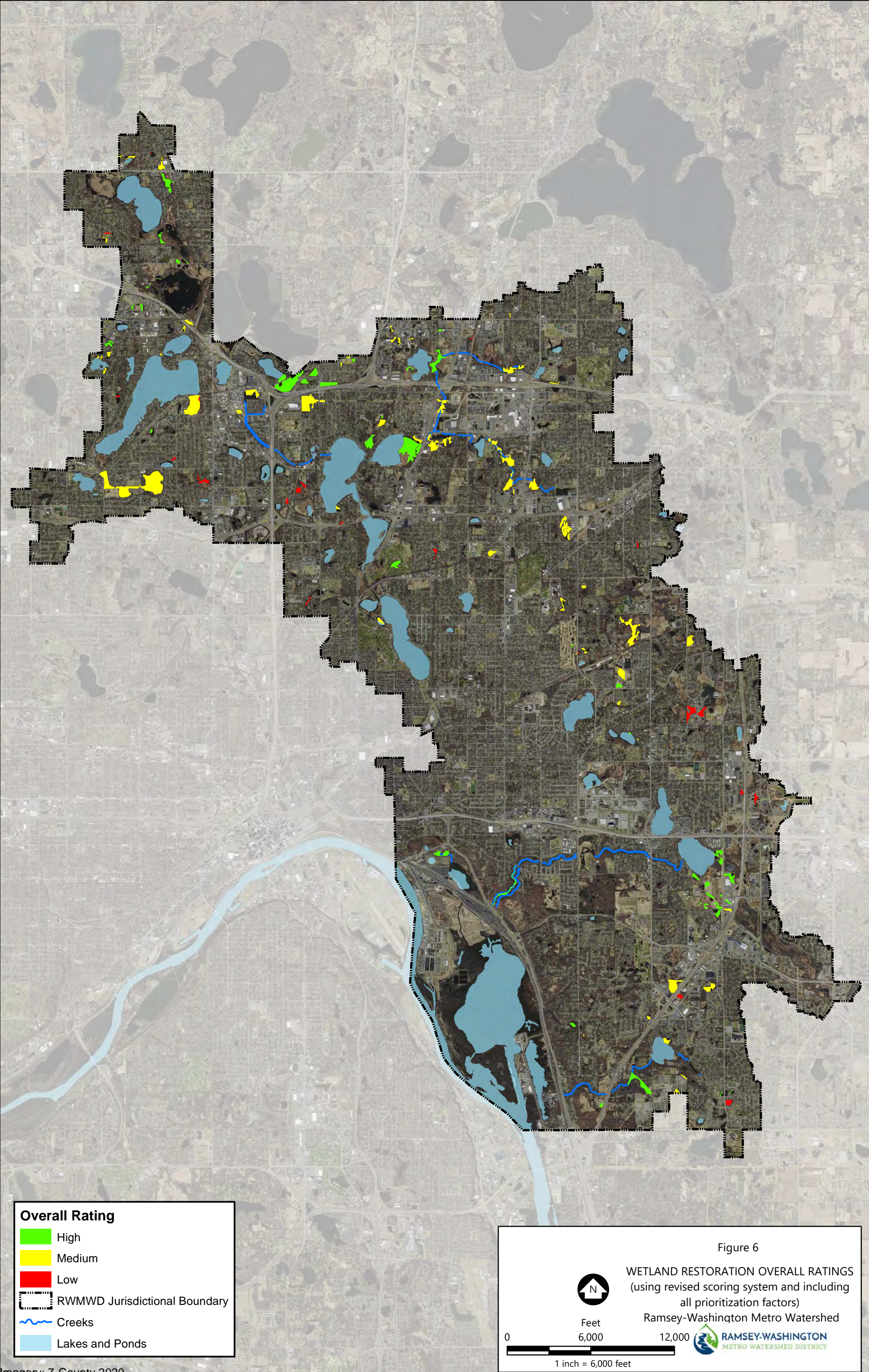
N

Feet  
0 6,000 12,000

1 inch = 6,000 feet

 **RAMSEY-WASHINGTON**  
METRO WATERSHED DISTRICT





**Overall Rating**

- High
- Medium
- Low
- RWMWD Jurisdictional Boundary
- Creeks
- Lakes and Ponds

Figure 6

WETLAND RESTORATION OVERALL RATINGS  
(using revised scoring system and including  
all prioritization factors)

Ramsey-Washington Metro Watershed





Barr Footer: ArcGIS 10.7.1, 2019-10-02 15:27 File: \\Client\Ramsey-Washington Metro\_WD\Work Orders\2019 Wetland Restoration\_Site Search\Maps\Reports\Packet\_Submittal\_Sept25\Figure 5 - Wetland Restoration Map Overview - Unique ID's.mxd User: JRV

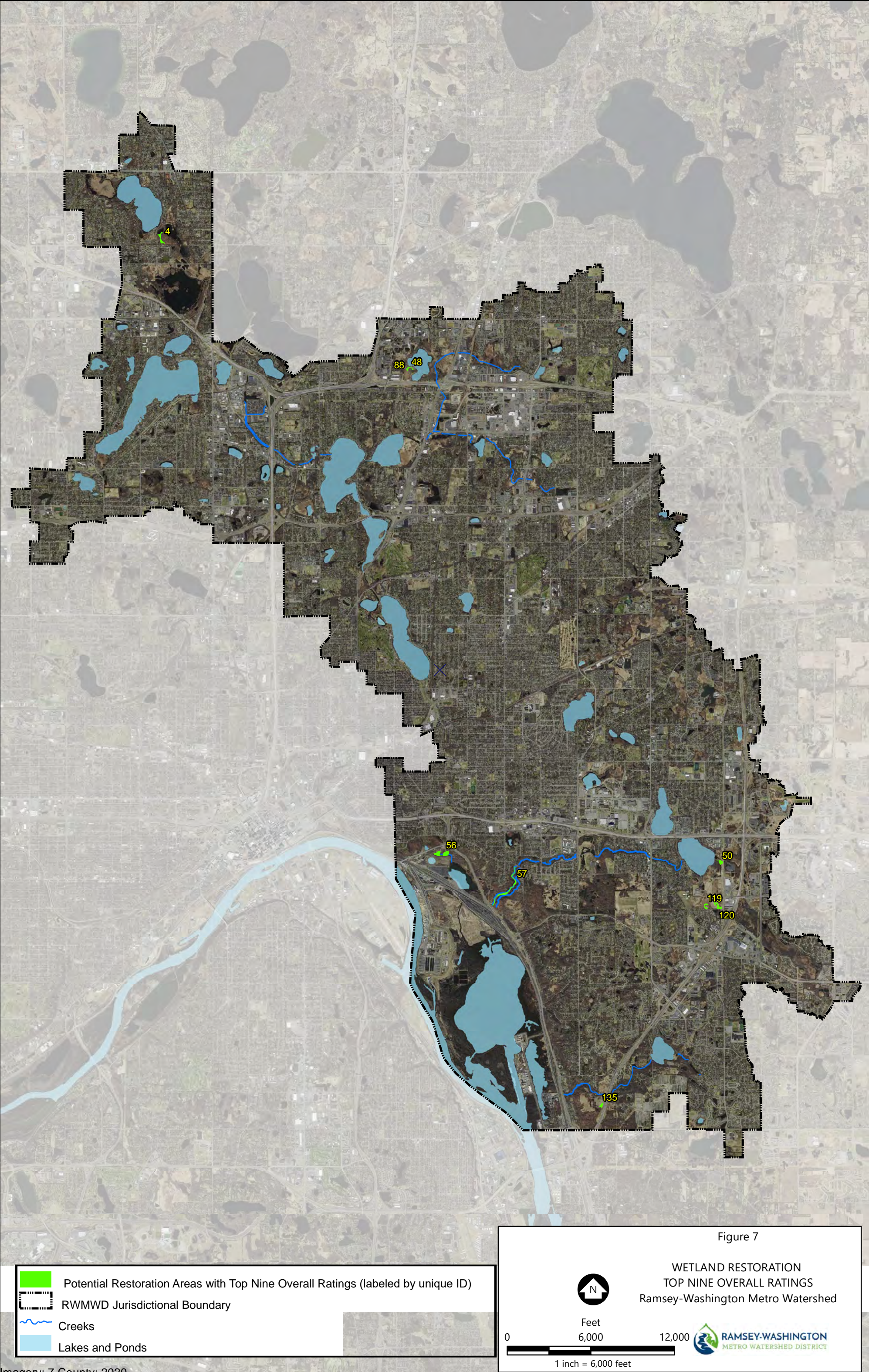




Table 1  
Potential Wetland Restoration Areas

Unique ID	Overall Score	Overall Rating	Percent Credit Rating	Landownership Rating	Size Rating	Total Additional Feature/Benefit Points	Credit Potential (combined size and % credit)	Area (Acres)	Percent Credit	Proximity Existing Features	Community Amenities	Degradation Condition
1	7	Medium	2	1	2	2	2	2.35	100	2		
2	6	Low	2	1	1	2	1	0.18	100	2		
3	9	Medium	2	3	1	3	1	0.95	100	2		
4	15	High	2	4	2	7	2	2.57	100	4		
5	11	High	2	2	2	5	2	1.53	100	3		
6	10	High	2	2	1	5	1	0.40	100	3		
7	6	Low	2	1	1	2	1	0.98	100	2		
8	8	Medium	2	2	2	2	2	1.04	100	2		
9	12	High	2	2	1	7	1	0.24	100	5		
10	10	High	2	2	1	5	1	0.54	100	4		
11	11	High	2	3	2	4	2	1.56	100	3		
12	10	High	2	3	1	4	1	0.78	100	3		
13	7	Medium	2	1	2	2	2	1.23	100	2		
14	9	Medium	2	1	2	4	2	2.47	100	3		
15	8	Medium	2	3	1	2	1	0.39	100	2		
16	10	High	2	1	1	6	1	0.90	100	1	1	1
17	12	High	2	1	2	7	2	2.24	100	2	1	1
18	8	Medium	2	1	2	3	2	1.74	100	2		
19	8	Medium	2	1	2	3	2	1.07	100	2		
20	8	Medium	2	1	2	3	2	1.23	100	2		
21	6	Low	2	2	1	1	1	0.71	100			
22	6	Low	2	1	1	2	1	0.65	100	1		
23	10	High	2	4	1	3	1	0.80	100	1		
24	6	Low	2	1	1	2	1	0.94	100	1		
25	7	Medium	1	1	3	2	3	28.26	50	1		
26	8	Medium	1	1	3	3	3	40.70	50	2		
27	7	Medium	1	1	3	2	3	25.03	50	1		
28	6	Low	2	1	2	1	2	3.67	100			
29	8	Medium	2	1	3	2	3	7.01	100	1		
30	9	Medium	2	2	2	3	2	1.93	100	2		
31	10	High	2	1	2	5	2	3.86	100	3		
32	10	High	2	1	3	4	3	26.88	100	3		
33	11	High	2	1	3	5	3	5.07	100	3		
34	10	High	2	1	2	5	2	2.54	100	3		
35	10	High	2	2	3	3	3	7.39	100	2		
36	7	Medium	2	1	1	3	1	0.43	100	2		
37	8	Medium	2	2	1	3	1	0.62	100	2		
38	12	High	2	4	2	4	2	1.07	100	2		
39	7	Medium	2	1	1	3	1	0.36	100	2		
40	8	Medium	1	2	1	4	1	0.41	50	2		



Table 1  
Potential Wetland Restoration Areas

Unique ID	Overall Score	Overall Rating	Percent Credit Rating	Landownership Rating	Size Rating	Total Additional Feature/Benefit Points	Credit Potential (combined size and % credit)	Area (Acres)	Percent Credit	Proximity Existing Features	Community Amenities	Degradation Condition
41	8	Medium	1	1	2	4	1	1.20	50	2		
42	8	Medium	2	1	2	3	2	1.34	100	2		
43	8	Medium	2	2	1	3	1	0.24	100	2		
44	7	Medium	2	1	1	3	1	0.37	100	2		
45	11	High	2	3	2	4	2	1.27	100	2		
46	11	High	2	4	1	4	1	0.71	100	2		
47	11	High	1	2	3	5	2	9.28	50	3		
48	14	High	1	4	2	7	1	1.02	50	4		
49	6	Low	1	1	2	2	2	2.15	50	1		
50	13	High	1	3	2	7	1	1.64	50	4		
51	10	High	1	3	2	4	2	3.67	50	2		
52	6	Low	1	1	2	2	1	1.39	50	1		
53	5	Low	1	1	2	1	2	2.80	50			
54	12	High	1	2	2	7	2	4.60	50	4		
55	6	Low	1	1	3	1	2	8.00	50	1		
56	13	High	1	1	3	8	2	5.45	50	7		
57	13	High	1	1	3	8	2	6.28	50	6		
58	7	Medium	1	1	3	2	2	6.34	50	1		
59	5	Low	1	1	2	1	2	4.34	50	1		
60	6	Low	1	1	2	2	1	1.47	50	1		
61	6	Low	1	1	2	2	2	2.68	50	1		
62	9	Medium	1	1	3	4	2	6.88	50	2		
63	7	Medium	1	1	2	3	2	3.86	50	2		
64	8	Medium	1	2	2	3	2	4.47	50	1		
65	9	Medium	1	1	2	5	2	2.70	50	3		
66	9	Medium	1	1	3	4	2	9.39	50	2		
67	8	Medium	1	2	1	4	1	0.99	50	2		
68	7	Medium	1	1	2	3	2	4.77	50	1		
69	11	High	1	1	3	6	3	33.29	50	3		1
70	9	Medium	1	1	2	5	2	4.11	50	3		
71	8	Medium	1	2	3	2	2	6.65	50	1		
72	10	High	1	2	3	4	2	8.55	50	3		
73	5	Low	1	1	2	1	1	1.41	50	1		
74	7	Medium	1	1	2	3	2	4.78	50	1		
75	8	Medium	1	1	3	3	2	8.95	50	1		
76	10	High	1	3	1	5	1	0.46	50	3		
77	6	Low	1	2	1	2	1	0.14	50	1		
78	8	Medium	1	1	3	3	2	8.40	50	2		
79	8	Medium	1	1	3	3	2	8.97	50	1		
80	8	Medium	1	1	2	4	2	3.33	50	2		

Table 1  
Potential Wetland Restoration Areas

Unique ID	Overall Score	Overall Rating	Percent Credit Rating	Landownership Rating	Size Rating	Total Additional Feature/Benefit Points	Credit Potential (combined size and % credit)	Area (Acres)	Percent Credit	Proximity Existing Features	Community Amenities	Degradation Condition
81	10	High	1	4	2	3	2	2.30	50	1		
82	8	Medium	1	1	3	3	2	9.45	50	2		
83	7	Medium	2	2	1	2	1	0.15	100	1		
84	7	Medium	1	1	3	2	2	5.90	50	1		
85	7	Medium	1	1	2	3	2	3.54	50	2		
86	10	High	1	1	3	5	2	8.31	50	3		
87	7	Medium	2	1	1	3	1	0.54	100	2		
88	15	High	2	4	2	7	2	1.02	100	4		
89	9	Medium	1	1	3	4	2	6.08	50	2		
90	5	Low	1	1	1	2	1	0.43	50	1		
91	12	High	2	2	3	5	3	9.28	100	3		
92	8	Medium	1	1	3	3	2	6.58	50	1		
93	7	Medium	2	1	1	3	1	0.58	100	2		
94	8	Medium	1	1	2	4	1	1.93	50	2		
95	7	Medium	2	1	2	2	2	1.24	100	1		
96	9	Medium	2	1	3	3	3	20.75	100	2		
97	7	Medium	2	1	2	2	2	1.07	100	1		
98	4	Low	2	1	1	0	1	0.63	100			
99	7	Medium	2	1	2	2	2	1.06	100	1		
100	8	Medium	2	2	1	3	1	0.48	100	2		
101	6	Low	2	1	1	2	1	0.92	100	1		
102	7	Medium	2	1	2	2	2	3.52	100	1		
103	6	Low	2	1	2	1	2	1.70	100	1		
104	6	Low	2	1	2	1	2	1.30	100	1		
105	11	High	2	4	2	3	2	4.78	100	1		
106	9	Medium	2	2	2	3	2	2.12	100	2		
107	8	Medium	2	2	2	2	2	1.32	100	1		
108	7	Medium	2	1	2	2	2	3.05	100	1		
109	11	High	2	3	1	5	1	0.54	100	2		
110	7	Medium	2	1	2	2	2	1.34	100	1		
111	9	Medium	2	2	1	4	1	0.21	100	1		
112	5	Low	2	1	1	1	1	0.26	100			
113	7	Medium	2	1	2	2	2	1.19	100	1		
114	11	High	2	4	1	4	1	0.41	100	2		
115	7	Medium	2	1	1	3	1	0.27	100	2		
116	10	High	2	2	2	4	2	1.73	100	2		
117	12	High	2	2	2	6	2	2.66	100	3		
118	11	High	2	2	2	5	2	2.45	100	3		
119	13	High	2	3	2	6	2	1.50	100	3		
120	13	High	2	3	2	6	2	2.61	100	3		

Table 1  
Potential Wetland Restoration Areas

Unique ID	Overall Score	Overall Rating	Percent Credit Rating	Landownership Rating	Size Rating	Total Additional Feature/Benefit Points	Credit Potential (combined size and % credit)	Area (Acres)	Percent Credit	Proximity Existing Features	Community Amenities	Degradation Condition
121	11	High	2	2	2	5	2	2.35	100	3		
122	12	High	2	3	1	6	1	0.41	100	3		
123	10	High	2	1	2	5	2	2.84	100	3		
124	9	Medium	2	1	2	4	2	1.75	100	2		
125	11	High	2	3	2	4	2	1.49	100	2		
126	11	High	2	3	1	5	1	0.43	100	3		
127	8	Medium	2	1	1	4	1	0.24	100	3		
128	11	High	2	2	2	5	2	1.74	100	4		
129	7	Medium	1	1	3	2	3	12.25	50	1		
130	7	Medium	1	1	3	2	2	5.82	50	1		
131	7	Medium	2	2	1	2	1	0.83	100	1		
132	8	Medium	2	2	2	2	2	3.00	100	1		
133	8	Medium	2	2	2	2	2	1.75	100	1		
134	11	High	2	1	3	5	3	12.76	100	3		
135	13	High	2	4	2	5	2	1.27	100	2		
136	7	Medium	2	2	1	2	1	0.94	100	1		
137	6	Low	1	1	2	2	2	3.32	50	1		
138	10	High	2	4	1	3	1	0.23	100	1		
139	10	High	2	4	1	3	1	0.42	100	1		

Table 1  
Potential Wetland Restoration Areas

Unique ID	Habitat Restoration	Willing Partnerships	Connection Opportunities	Potential Flood Storage	Water Quality Benefit Potential	Adjacent Habitat Connectivity	Projected Landuse Redevelopment	Resource Connectivity	Equity Initiative Areas	High Priority Restoration Area	Ease of Restoration	Restoration without Flooding Neighbors or Existing Infrastructure
1												
2												
3			1									
4		1	1			1						
5			1			1						
6			1			1						
7												
8												
9				1		1						
10						1						
11			1									
12			1									
13												
14						1						
15												
16	1	1			1							
17	1	1			1							
18					1							
19					1							
20					1							
21					1							
22					1							
23		1			1							
24					1							
25					1							
26					1							
27					1							
28					1							
29					1							
30					1							
31				1		1						
32						1						
33					1	1						
34					1	1						
35					1							
36					1							
37					1							
38		1			1							
39					1							
40			1		1							

Table 1  
Potential Wetland Restoration Areas

Unique ID	Habitat Restoration	Willing Partnerships	Connection Opportunities	Potential Flood Storage	Water Quality Benefit Potential	Adjacent Habitat Connectivity	Projected Landuse Redevelopment	Resource Connectivity	Equity Initiative Areas	High Priority Restoration Area	Ease of Restoration	Restoration without Flooding Neighbors or Existing Infrastructure
41			1		1							
42					1							
43					1							
44					1							
45			1		1							
46		1			1							
47			1		1							
48		1	1		1							
49					1							
50			1		1	1						
51					1	1						
52					1							
53					1							
54			1		1	1						
55												
56						1						
57					1	1						
58					1							
59												
60			1									
61			1									
62			1		1							
63					1							
64			1		1							
65			1		1							
66			1		1							
67			1		1							
68			1		1							
69			1		1							
70			1		1							
71					1							
72					1							
73												
74			1		1							
75			1		1							
76			1		1							
77					1							
78					1							
79			1		1							
80			1		1							

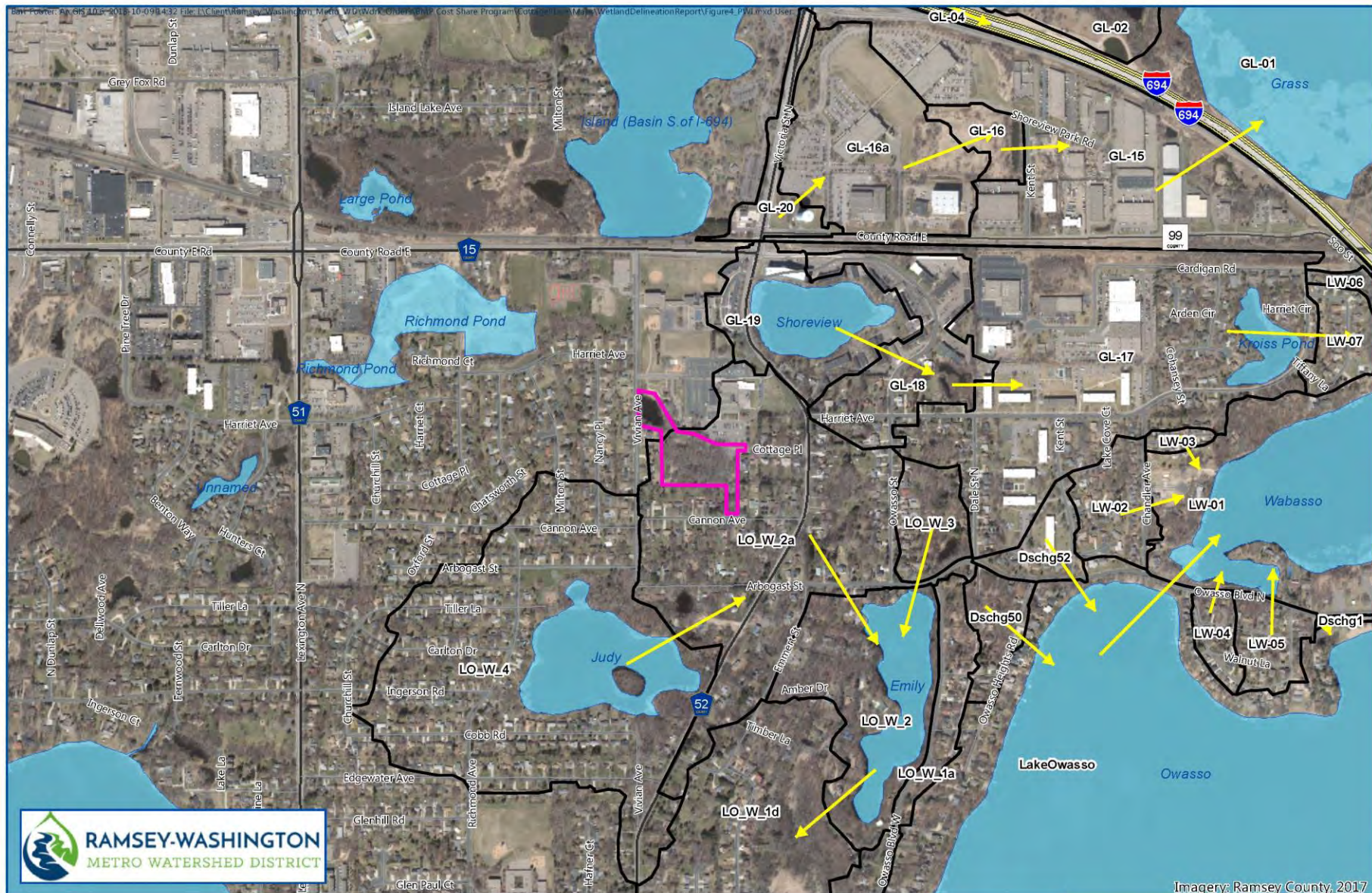
Table 1  
Potential Wetland Restoration Areas

Unique ID	Habitat Restoration	Willing Partnerships	Connection Opportunities	Potential Flood Storage	Water Quality Benefit Potential	Adjacent Habitat Connectivity	Projected Landuse Redevelopment	Resource Connectivity	Equity Initiative Areas	High Priority Restoration Area	Ease of Restoration	Restoration without Flooding Neighbors or Existing Infrastructure
81		1			1							
82					1							
83					1							
84					1							
85			1									
86			1			1						
87					1							
88		1	1		1							
89			1		1							
90					1							
91			1		1							
92			1		1							
93					1							
94			1		1							
95					1							
96					1							
97					1							
98												
99					1							
100					1							
101					1							
102					1							
103												
104												
105		1	1									
106			1									
107					1							
108					1							
109					1		1	1				
110					1							
111					1		1	1				
112					1							
113					1							
114		1			1							
115					1							
116					1	1						
117			1		1	1						
118					1	1						
119			1		1	1						
120			1		1	1						







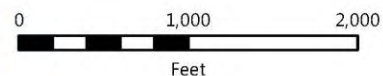
Table 1  
Potential Wetland Restoration Areas

Unique ID	Habitat Restoration	Willing Partnerships	Connection Opportunities	Potential Flood Storage	Water Quality Benefit Potential	Adjacent Habitat Connectivity	Projected Landuse Redevelopment	Resource Connectivity	Equity Initiative Areas	High Priority Restoration Area	Ease of Restoration	Restoration without Flooding Neighbors or Existing Infrastructure
121					1	1						
122			1		1	1						
123					1	1						
124					1	1						
125					1	1						
126					1	1						
127						1						
128						1						
129					1							
130					1							
131					1							
132					1							
133					1							
134					1	1						
135		1			1	1						
136					1							
137					1							
138		1			1							
139		1			1							



Imagery: Ramsey County, 2017

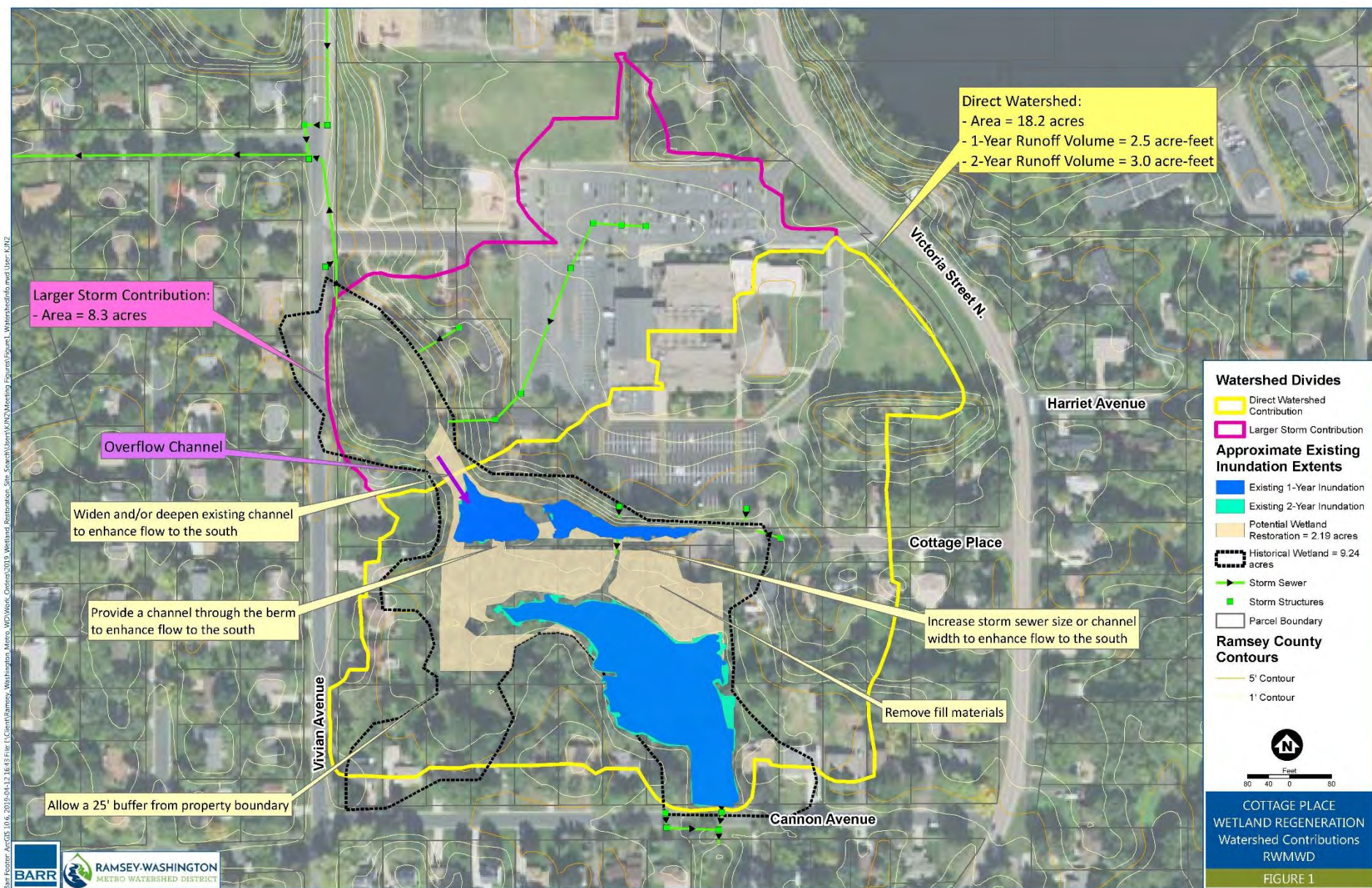
-  Wetland Evaluation Area  
 Drainage Area Outflow  
 Drainage Areas  
 MN DNR Public Water Inventory Basin



PUBLIC WATER INVENTORY  
Cottage Place  
Ramsey-Washington Metro  
Watershed District

FIGURE 4











\* \* \* \* \*

# Administrator's Report

\* \* \* \* \*

## MEMO

**TO:** Board of Managers and Staff  
**FROM:** Tina Carstens, Administrator  
**SUBJECT:** July Administrator's Report  
**DATE:** July 27, 2023

### A. Meetings Attended

Monday, June 26	8:00 AM	Barr budgeting meeting
	2:30 PM	Metro Watersheds planning meeting
Wednesday, June 28	1:30 PM	Minnesota Watersheds Events Subcommittee
	6:30 PM	Board Meeting
Monday, July 24	2:00 PM	Barr budgeting meeting
Tuesday, July 25	2:00 PM	Metro INET Board Meeting
Wednesday, July 26	11:00 AM	Natural Resources Program Team Meeting

### B. Upcoming Meetings and Dates

September Board Meeting	September 6, 2023
CAC Meeting	September 26, 2023
October Board Meeting	October 4, 2023
Metro Watersheds Meeting	October 17, 2023
CAC Meeting	October 24, 2023
November Board Meeting	November 1, 2023
Watershed Excellence Awards	Mid-November TBD
Minnesota Watersheds Annual Conference	November 28-30, 2023
CAC Meeting	December 5, 2023
December Board Meeting	December 6, 2023

### C. Board Action Log and Updates

This month's board action log is attached. Each month, I review this list and add anything that was suggested in the previous meeting. If you have anything you'd like to add, this would be the time for board discussion.

### D. Minnesota Watersheds (formally MAWD) Updates

MW staff is asking each watershed board member to complete the attached survey. Please complete the survey and return to me as soon as possible. I will compile the results and send them back to MW.

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

**E. Diversity, Equity, Inclusion and Accessibility (DEIA)**

An internal staff team has been meeting regularly to define goals and action steps to further our DEIA efforts. Funds have been allocated to this work from our general fund for 2023 and I have included continuing funds in 2024. Through that internal process, district staff have identified and selected a Diversity, Equity, Inclusion and Accessibility (DEIA) consultant, Strategic Diversity Initiatives, to audit, train, and assist staff in efforts to make RWMWD a more welcoming space for community members, employees, partners, and more.

From SDI's website:

Strategic Diversity Initiatives is a certified LGBTQ – and Woman-owned consulting firm with 25 years of experience providing world class education and consultation around diversity, equity & inclusion. We are adept at assessing an organization's strengths and challenges and tailoring our approach to fit your organization's history, context, and goals. Our approach is collaborative, transparent, and strategic. We can help you create and implement a plan to move forward in ways that are comprehensive, enduring, and connected to your core mission.

Work with SDI is to begin in the month of September, and continue through 2024. This includes staff trainings on a variety of DEIA related topics, a comprehensive audit of organizational practices and procedures, including hiring, retention, and community engagement activities, and develop and deliver a collaborative DEIA Strategic Planning Retreat to engage key staff, board members, and community members in the development of a 3 to 5-year action plan for DEIA efforts.

I will include DEIA work status updates in the board packets for your information and will bring items to you for review and discussion as appropriate through the process.



## Board of Managers Action Log

Wednesday, August 2, 2023

Item	Anticipated Action Date	Means of Action	Completed
Land Acquisition and Use Policy	Fall 2023 (Priority 1)	Board discussion and approval.	
Governance Manual	Fall 2023 (Priority 1)	Board review and approval.	
West Vadnais Lake Boundary Change	Fall 2023 (Priority 1)	Board review and approval.	
Alum Use Policy	Fall 2023	Proposed policy discussion.	
Adopt-A-Drain Program Evaluation and Promotion	Fall 2023	Presentation and discussion.	
Review of Equity Areas Definition	Summer 2023	Presentation & discussion	June 2023
Planting of Edible Plants in Restoration Areas	Winter 2022/2023	Barr new technology report	Feb 2023
PFAS (Per- and polyfluoroalkyl substances) in MN and RWMWD's role.	Winter 2022/2023	Presentation	Feb 2023
Miyawaki Mini-Forest Assessment	Fall 2022	Barr new technology report	Oct 2022
Alum use for internal load control along with information on alternative solutions.	Fall/Winter 2022	Memo/Presentation	Nov 2022

# Board Training Survey

## July 2023



Minnesota Watersheds is seeking input from member boards on education and training needs. The survey is based on providing education and training opportunities at our three events: Legislative Briefing and Day at the Capitol, Summer Tour, and the Annual Conference.

Question 1. The **Legislative Briefing and Day at the Capitol** is held in St. Paul so that members can learn about our organization's legislative activities and meet with legislators to discuss watershed needs. It should be noted that the number of representatives from metropolitan watersheds is minimal. What is your level of attendance for **the Legislative Briefing and Day at the Capitol**?

Question 1	Always	Most of the time	Sometimes	Seldom	Never
Board Member 1					
Board Member 2					
Board Member 3					
Board Member 4					
Board Member 5					
Board Member 6					
Board Member 7					
Board Member 8					
Board Member 9					
Board Member 10					
Board Member 11					

Question 2. If your answer was sometimes, seldom, or never, what would improve your likelihood of attending?

Question 2	Content	Time of Year	Other
Board Member 1			
Board Member 2			
Board Member 3			
Board Member 4			
Board Member 5			
Board Member 6			
Board Member 7			
Board Member 8			
Board Member 9			
Board Member 10			
Board Member 11			

Question 3. What training and education would be most beneficial for you at the **Legislative Briefing and Day at the Capitol?** (Please rank from 1 to 6)

<b>Question 3</b>	<b>How to meet with legislators</b>	<b>How to work with county boards</b>	<b>How to interact with state agencies</b>	<b>Legislative process</b>	<b>Minnesota Watersheds resolutions process</b>	<b>Other</b>
Board Member 1						
Board Member 2						
Board Member 3						
Board Member 4						
Board Member 5						
Board Member 6						
Board Member 7						
Board Member 8						
Board Member 9						
Board Member 10						
Board Member 11						

Question 4. The **Summer Tour** rotates between the three Minnesota Watersheds regions (Region 1 – northern Minnesota, Region 2 – southern Minnesota, and Region 3 – metro). This year’s Summer Tour was held in Region 2 and there was limited representation from Region 1 managers. What is your level of attendance for the **Summer Tour**?

<b>Question 4</b>	<b>Always</b>	<b>Most of the time</b>	<b>Sometimes</b>	<b>Seldom</b>	<b>Never</b>
Board Member 1					
Board Member 2					
Board Member 3					
Board Member 4					
Board Member 5					
Board Member 6					
Board Member 7					
Board Member 8					
Board Member 9					
Board Member 10					
Board Member 11					

Question 5. If your answer was sometimes, seldom, or never, what would improve your likelihood of attending?

<b>Question 5</b>	<b>Content</b>	<b>Time of Year</b>	<b>Other</b>
Board Member 1			
Board Member 2			
Board Member 3			
Board Member 4			
Board Member 5			
Board Member 6			
Board Member 7			
Board Member 8			
Board Member 9			
Board Member 10			
Board Member 11			

Question 6. What training and education would be most beneficial for you at the **Summer Tour**? (Please rank from 1 to 4)

<b>Question 6</b>	<b>General watershed management</b>	<b>Watershed project successes and challenges</b>	<b>How to partner with state agencies and other entities</b>	<b>Other</b>
Board Member 1				
Board Member 2				
Board Member 3				
Board Member 4				
Board Member 5				
Board Member 6				
Board Member 7				
Board Member 8				
Board Member 9				
Board Member 10				
Board Member 11				

Question 7. It is necessary for the **Annual Conference** to be held in the **most geographically centered location** to accommodate travel for all members. What is your level of attendance for the **Annual Conference**?

<b>Question 7</b>	<b>Always</b>	<b>Most of the time</b>	<b>Sometimes</b>	<b>Seldom</b>	<b>Never</b>
Board Member 1					
Board Member 2					
Board Member 3					
Board Member 4					
Board Member 5					
Board Member 6					
Board Member 7					
Board Member 8					
Board Member 9					
Board Member 10					
Board Member 11					

Question 8. If your answer was sometimes, seldom, or never, what would improve your likelihood of attending?

<b>Question 8</b>	<b>Content</b>	<b>Time of Year</b>	<b>Other</b>
Board Member 1			
Board Member 2			
Board Member 3			
Board Member 4			
Board Member 5			
Board Member 6			
Board Member 7			
Board Member 8			
Board Member 9			
Board Member 10			
Board Member 11			

Question 9. What training and education would be most beneficial for you at the **Annual Conference**? (Please rank from 1 to 7)

<b>Question 9</b>	<b>Watershed governance</b>	<b>Board management</b>	<b>Working with staff</b>	<b>Budgeting finances</b>	<b>Working with county boards and legislators</b>	<b>General watershed management</b>	<b>Other</b>
Board Member 1							
Board Member 2							
Board Member 3							
Board Member 4							
Board Member 5							
Board Member 6							
Board Member 7							
Board Member 8							
Board Member 9							
Board Member 10							
Board Member 11							

Question 10. Minnesota Watersheds offers watershed management training for new and experienced board members (Your Role in Watershed Management; Your Role in Watershed Planning and Implementation; Your Role as a Government Official; Your Role as a Drainage Authority) at the Annual Conference. We are considering offering this training at other times of the year. What time of year would you suggest?

<b>Question 10</b>	<b>Spring</b>	<b>Summer</b>	<b>Fall</b>	<b>Winter</b>
Board Member 1				
Board Member 2				
Board Member 3				
Board Member 4				
Board Member 5				
Board Member 6				
Board Member 7				
Board Member 8				
Board Member 9				
Board Member 10				
Board Member 11				

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# Project and Program Status Reports

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## Memorandum

**To:** Board of Managers and Staff  
**From:** Tina Carstens, Brad Lindaman, and Erin Anderson Wenz  
**Subject:** Project and Program Status Report – July 2023  
**Date:** July 27, 2023

**Note:** The location, brief description, and current status of each project described below can be found on the [2023 RWMWD engineering services story map](#).

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### Project feasibility studies

#### **A. Interim emergency response planning for district areas at risk of flooding (Barr project manager: Gareth Becker; RWMWD project manager: Tina Carstens)**

*The purpose of this project is to provide information and guidance to cities throughout the district about how to protect low-lying habitable structures from flooding during the 100-year storm event. These emergency response plans address areas for which there is 1) not currently a feasible project that has been identified to protect structures or 2) a project that cannot be implemented in the near future due to logistical and/or budgeting reasons. This effort is an outcome of the Beltline resiliency study. This project will extend into 2022.*

Barr has created plan sheets for emergency flood-risk-mitigation measures and site-specific modifications. We split figures by municipality and have prepared a draft transmittal memorandum for each city. Barr and RWMWD staff are meeting in August to review the figures before transmitting information to each municipality.

#### **B. Kohlman Creek flood risk reduction feasibility study (Barr project manager: Tyler Olsen; RWMWD project manager: Tina Carstens)**

*The purpose of this study is to complete a feasibility evaluation of modifications to reduce flood risk along Kohlman Creek to remove structures from the 100-year floodplain. Work includes coordination with the cities of Maplewood and North Saint Paul, evaluation of alternatives to reduce flood risk, preparation of cost estimates for each alternative, and identification of permitting requirements. This project focused primarily on areas surrounding PCU Pond and the wetland complex west of White Bear Avenue. This feasibility study is a follow-up study of flood-prone areas identified in the Beltline resiliency study.*

This month, Barr began modeling proposed flood-risk-reduction concepts in the XPSWMM hydrologic model, iterating to find feasible solutions that reduce flood risk. Barr also met with RWMWD, North St. Paul, Maplewood, and Ramsey County staff (public works and parks) to review the proposed flood damage reduction concepts from the Beltline resiliency study and gather feedback on these concepts and those that the cities had. Barr will continue modeling proposed alternatives over the next period



and develop cost estimates for the alternatives to aid in annual budgeting for final design and construction in 2024.

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

*The purpose is to complete a planning-level evaluation of modifications to reduce flood risk near Ames Lake, supported by the City of Saint Paul. Work includes coordination discussions with Saint Paul; review of potential pipe alignments, land acquisition costs, utility conflicts, and permitting issues; and related design. If the planning study identifies projects that impact regional drainage, a feasibility study will be completed in 2023. This planning study is a follow-up study that was identified in the Beltline resiliency study.*

This month, Barr continued developing concepts for flood-risk-reduction BMPs on the Saint Paul Housing and Redevelopment Authority (HRA) parcels. Concepts have included dry storage basins, ponds, and native plantings. They involve mass excavation and grading on the site to create extreme precipitation flood storage volume. This entails tree removal and reconfiguring the parcel(s) as public park space. Barr is reviewing the cost-effectiveness of grading and possibly retaining walls to maximize the desired storage volume. We anticipate sharing initial concepts with the City of Saint Paul and Saint Paul HRA staff next month and soliciting feedback.

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

*The purpose of this study is to evaluate the benefit-cost of flood risk reduction strategies in the Owasso Basin/North Star Estates area by reviewing potential pipe and berm alignments, land acquisition costs, utility conflicts, permitting issues, and related design as well as construction and long-term maintenance costs associated with each alternative that achieves the project objective of removing habitable structures from the floodplain in this area. Stakeholder outreach with the City of Little Canada is an important part of this effort. This study is a continuation of the Owasso Basin bypass study, which laid out several phases of implementation and areas of further study.*

In July, Barr and RWMWD staff met with representatives from Saint Paul Water and North Star Estates to review proposed system modifications to reduce flood risk and discuss site constraints that could affect design. Barr will follow up with Saint Paul Water and North Star Estates staff in August to get comments on the information provided. Barr continued planning for geotechnical field investigations to support the final design of system modifications. Tasks include reviewing historical soil borings from the early 1990s when the Owasso Basin was constructed and collecting soil borings to fill in gaps from historical borings. Geotechnical investigations will be scheduled following feedback from Saint Paul Regional Water and North Star Estates. We expect design activity to increase through the fall as we prepare for the first construction phase in 2024.

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

*The purpose of this project is to evaluate system-scale modifications to reduce flood risk within the portion of the RWMWD that was not evaluated as part of the Beltline resiliency evaluation. This portion of the watershed includes the Tanners Lake, Battle Creek Lake, Battle Creek, Carver Lake, Fish Creek, and Snake Creek subwatersheds. The evaluation will identify modifications to the drainage system to reduce flood risk to habitable structures located within the 100-year floodplain of District-managed water*

*bodies, including evaluating actively managing outlet control structures on Tanners Lake, Battle Creek Lake, and Carver Lake. This evaluation will allow RWMWD to identify potential system-wide strategies for mitigating flood risk that are consistent with the portion of the district that is tributary to the Beltline, which was studied as part of the Beltline resiliency evaluation.*

This month, Barr staff continued to review and update the existing-conditions XPSWMM hydrologic models for the Tanners Lake, Battle Creek Lake, Battle Creek, Carver Lake, Fish Creek, and Snake Creek subwatersheds based on LiDAR, aerial imagery, and recent development plans. Staff also finished updates to subwatershed divides and started incorporating storm sewer information provided by the cities to more accurately account for storage and flow routing in areas near potentially flood-prone structures. Storm sewer updates are anticipated to wrap up in August. At that point, the team will begin evaluating system modifications needed to remove habitable structures from the floodplain. The study is expected to continue through 2023.

## Research projects

### **F. Kohlman Lake aquatic plants and nutrients: phase I and II (Barr project manager: Keith Pilgrim; RWMWD project manager: Paul Erdmann)**

*The objective of this preliminary investigation is to determine the effect of intensive aquatic-plant management on Kohlman Lake water quality. The goal is to help the district identify a science-based aquatic plant management policy.*

The water quality of Kohlman Lake has declined significantly in recent years. During this time, the lake has had intensive aquatic plant management (not conducted by RWMWD). It is suspected that declining water quality is linked to the loss of aquatic plants. An extensive field data collection effort on Kohlman Lake and Beaver Lake (a control lake without significant aquatic plant management) will be conducted and will include water quality monitoring, aquatic plant monitoring (relative abundance), biomass sampling, drone-based surveys of aquatic plant coverage, dissolved oxygen monitoring in-lake, and sediment chemistry sampling. These data will be used as inputs to a lake model to conclusively determine the effect of intensive aquatic plant management on nutrient concentrations in Kohlman Lake. Management guidelines will be developed after determining the level of aquatic plant management that can occur without adverse effects on water quality.

Activities during this month continue to include management of and communication with parties conducting sampling (Barr, RWMWD, and Ramsey County staff). Barr conducted a drone flyover. Model building was also done to provide an improved algorithm for spatial aquatic plant growth.

### **G. Shallow lake aeration study (Barr project manager: Keith Pilgrim; RWMWD project manager: Paul Erdmann)**

*The purpose of this project is to determine the potential for aeration to reduce internal phosphorus loading from bottom sediments in shallow lakes and ponds.*

Aerators have been placed in Bennett Lake (mid-2022), Markham Pond, and Gervais Mill Pond (end of 2022). Monitoring began in 2022, and the initial results demonstrated that aeration could reduce internal loading. Monitoring is being conducted again in 2023 to get a full-year evaluation of the benefits for Bennett Lake and Gervais Mill Pond. Monitoring will be conducted by Barr and RWMWD staff. A final report with a comprehensive analysis and recommendation regarding the potential for shallow lake

aeration to control internal loading and improve shallow lake water quality will be provided at the end of 2023.

Barr staff activity during this month included porewater analysis and evaluation of field and porewater data collected to date.

## Capital improvements

### **H. Woodbury Target store stormwater retrofit projects (Barr project manager: Katie Turpin-Nagel; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to design, provide bid assistance for, and oversee construction of BMP retrofits at two Target retail stores.*

On June 26, Haugo Geotechnical performed two 15-foot-deep soil borings within the proposed rain gardens at Woodbury Target. Barr was in the field during the geotechnical investigation to review the soil conditions, coordinate access, and answer questions.

Following board approval, Barr organized the final design team and prepped for the July 18 internal final design kickoff meeting.

### **I. Roosevelt Homes targeted retrofit project (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 St. Paul.*

Roosevelt Homes is a multi-family housing area owned by the Saint Paul Public Housing Authority (SPHA). The area is in a flood-prone area of the city. Barr recently updated existing conditions models to show more detailed resolution, and preliminary concepts were developed to provide the owner with options to consider. SPHA is interested in moving forward with 1–2 year phased retrofits. Barr and the RWMWD anticipate coordinating with the City of Saint Paul to help inform improvements. During this period, Barr furthered design development and construction documents. Geotechnical investigations were completed and are being considered for the final design of the BMPs on site.

### **J. Stewardship grant program support (Barr project manager: Marcy Bean and Michael McKinney; RWMWD project manager: Paige Ahlborg)**

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

Woodland Hills Church in Maplewood is interested in removing a portion of its underutilized parking lot. During this period, Barr updated construction documents based on the concept design requested by the property owner. The project removes over 1.25 acres of pavement, captures up to 270 pounds of total suspended solids annually, adds native habitat, and creates gathering spaces for facility users. In partnership with the non-profit group, Settled, the site will become a model community for tiny homes. The church plans to work with a contractor to build the project as early as fall 2023.

**K. Arbogast Stormwater Filtration BMP (Barr project manager: Leslie DellAngelo; RWMWD project manager: Paige Ahlborg)**

*The purpose of this project is to complete final design, plans, and specifications for a regional stormwater BMP in the Lake Emily subwatershed with the purpose of decreasing phosphorus loads to Lake Emily, which is deemed to be at risk of impairment from excess nutrients.*

During the last period, Barr reviewed Shoreline Landscaping and Contracting submittals, hosted the preconstruction meeting, responded to construction questions, observed construction activities, and attended weekly construction meetings. Construction is on the planned schedule.

**L. Double Driveway Pond and 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 of Double Driveway Pond.*

During this period, Barr staff finalized the conceptual design for the stream restoration of the tributary creek. The concepts are being reviewed internally by senior Barr staff and will then be shared with RWMWD staff for their review. Additionally, cost estimates are being developed for the concept design. Following Barr and RWMWD staff review, we will contact the property owners regarding the proposed designs to determine their willingness to participate.

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

*The purpose of this project, in partnership with the City of Little Canada, is to design and implement a stormwater-reuse irrigation system in Pioneer Park to conserve groundwater and reduce phosphorus loading to downstream district waterbodies.*

Barr continued developing towards 100% design plans and specs based on district and city staff feedback at the June 90% design review meeting. We are working on the front-end contract documents and technical specifications to reflect the final design. We also recently reviewed the final pump/system curves provided by WaterTronics and have been coordinating with Xcel on the power supply, including a recent site visit. We are starting to develop the necessary permitting submittals (wetland and MPARS/Appropriations).

## **CIP project repair and maintenance**

**N. 2023 CIP maintenance and repair project (Barr project manager: Gareth Becker; RWMWD project manager: Dave Vlasin)**

*The purpose of this project is to maintain existing systems and infrastructure owned and operated by the RWMWD and to assist and facilitate stormwater pond cleanouts to allow other public entities to meet their MS4 requirements.*

Miller Excavating has completed their work, and the final payment has been submitted. Additional coordination and administration tasks remain to close out the project over the next couple of weeks.

**O. Beltline 5-year inspection (Barr project manager: Nathan Campeau; RWMWD project manager: Dave Vlasin)**

*The purpose of this effort is to adequately maintain the Beltline interceptor storm sewer system to extend the longevity of the tunnel.*

In early July, a sinkhole was discovered over the Beltline alignment, just upstream of the outfall into the Mississippi River. An inspection inside the tunnel revealed two holes in the sides of the large steel pipe section about 10 feet from the outfall to the Mississippi River (see photo) and another tunnel area needing immediate attention.



Left unaddressed, this issue may have caused complete failure of the downstream portions of the tunnel and significant damage to the ground surface above the tunnel, which is on Saint Paul Port Authority property. An emergency temporary repair was completed within a week of the discovery of the sinkhole. (see photo below) During the second week in July, Barr and RWMWD staff worked with PCIRoads (contractor) to weld two temporary patches over the most problematic areas to stabilize the system in the near term. The contractor

also repaired a hole that District staff discovered in the tunnel invert about 40 feet upstream of where the patches were installed. Finally, the contractor filled in the sinkhole with clean soil. PCIRoads was the contractor hired by the district in 2017 to address other repair areas inside the Beltline.

During the work, it was clear that a more extensive, long-term repair would be needed. Barr staff are currently preparing a preliminary design on 2–3 repair options for consideration by the district. A permanent repair recommendation is expected in September.



## **P. Natural Resources Update – Paul Erdmann, Patrick Williamson, and Joe Tillotson**

### **NR Team Getting Orientated and Up To Speed**

The last month has been a whirlwind for the NR Team, with Paul coming on board, Pat getting more up to speed, and Joe and the interns keeping us all on track and getting caught up on maintenance activities at District sites. The team plans to provide more detailed updates as we get settled into to our new roles, what follows are brief summaries of our recent activities.

### **Meeting With Partners & Other District Staff**

Beyond site maintenance, a big part of our work this month consisted of meetings with our conservation partners and internal staff teams to discuss current projects, past and future collaboration, and just meeting with each other to put faces to names and become more familiar with each other.

NR staff met with Keith Pilgrim from Barr Engineering and Eric Korte to discuss the Shallow Lake Aeration Study as well as the Kohlman Lake Aquatic Plant Management Effects Study. Both of these studies are proceeding as planned and we look forward to data coming in this fall and winter. We met with Przemek Bajer with Carp Solutions LLC for an overview of the District's carp management program and our ongoing monitoring efforts. We joined Mike Goodnature and Justin Townsend from Ramsey County in the field and toured our joint restoration projects- Keller Regional Park, Lake Owasso Shoreline, and Wetland A (aka "Peanut"). More details on these projects below. We are excited to continue these future partnership opportunities with Mike and Justin.

The NR Team has also been meeting with other District Teams over the month of July to discuss current projects and past and future collaboration opportunities.

### **Maintenance and Site Prep at District Restoration Sites**

Even in drought, weeds like to grow, and May, June, and July are critical times to manage invasive plants. The NR Team has kept busy performing maintenance at Keller Regional Park, Lake Owasso Shoreline Restoration, Goodrich Golf Course, Keller Golf Course, - the Keller Trifecta (Keller Shoreline, Keller Creek, Keller Island), Lake Phalen, and Wetland A. Our intense maintenance efforts have paid off, and drought tolerant native plants are thriving at most of these sites. The crew started prepping the Keller Shoreline which we will be working on into the winter, with plans to start installing native plants in 2024. We also have preliminary approval from Ramsey County Parks and Rec to expand the shoreline restoration at Lake Owasso, expanding the thriving native plant community into the upland in turf areas that did not establish well after construction was completed in the park.

The crew frequently has interactions with the public at most of these sites, and it is always encouraging when most of these interactions are positive and the public is complimentary of our restoration efforts.



## **Carp Update**

As the drought continues to bring low water levels, we are seeing no presence or evidence of carp at our barriers. In fact, some of our barriers don't have running water going through them. We continue to monitor the barriers to ensure they hold structural integrity after rain events or once a week if no precipitation has occurred.

## **Challenging Conditions**

The NR Team has gone above and beyond in getting work done this summer in very challenging field conditions. From hot, dry weather, high pollen counts, smoke-filled skies and air, poor air quality and frequent high-level ground ozone conditions, the Team has met these conditions in stride. District employees are encouraged to take frequent breaks, drink lots of water, and for times when outdoor work is not feasible, staff take on light-duty tasks or work on various computer tasks in the office.

We are fortunate to be watering only at one site- Keller Regional Park. This is a collaborative effort with Ramsey County staff who help out by watering one of the prairie restoration and loaning watering equipment. We are keeping plants alive at this site, but plants are not establishing well, so we are currently planning adjustments to implement this fall in order to get this site on track.

## **Learning/Teaching Opportunities**

As time allows, the NR Team has attended various tours, classes, and training opportunities to continue expanding our natural resource knowledge and hear from other restoration practitioners and to network.

On July 6<sup>th</sup>, the NR Team 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. See the photo below of 3 current and former CWMA coordinators.

Joe and Pat are looking to the future and have signed up for several classes and trainings. Pat is attending a Wetland Plant ID class and Joe will begin coursework to acquire his Ecological Restoration Certificate. Ashley (NR Intern) recently attended a DNR Native Plant Community Prairie Plant ID class that has already come into use as we identify plants in our restorations. Paul taught at two Wetland Plant ID Trainings that are part of the Minnesota Wetland Professional Certification Program.

This coming Friday (July 28<sup>th</sup>), the NR Team will be attending a tour of a 180 acre prairie restoration, 150 acres of upland and floodplain forest restoration, and a Mississippi riverbank stabilization project in Sherburne County which is being hosted by the Metro Conservation Network. The NR Team will also be

**To:** Board of Managers and Staff  
**From:** Tina Carstens and Brad Lindaman  
**Subject:** Project and Program Status Report July 2023  
**Date:** July 27, 2023

---

Page 9

taking a tour of Cedar Creek Ecosystem Science Reserve to tour plant communities similar to our restorations and other communities we may not experience often.

The NR interns have also been joining other District Teams on occasion to learn about the other aspects of watershed management, and interns from other departments have been joining our crew as part of the District's shadowing and learning program.



**Butterfly milkweed and other prairie plants greet golfers at Keller Golf Course. This photo, taken by Joe, “went viral” on our Instagram account. The Keller Golf Course restoration is now in its 20<sup>th</sup> year.**





**Lake Owasso Shoreline Restoration, Year 2**

**Left, Rattlesnake master blooms in a sea of black-eyed susan.**

**Below, future expansion area of restoration, notice the sad turf... and thriving native plants along the shore**





**To:** Board of Managers and Staff  
**From:** Tina Carstens and Brad Lindaman  
**Subject:** Project and Program Status Report July 2023  
**Date:** July 27, 2023

---

Page 11



**CWMA Meeting, Island Lake County Park, Three CWMA Coordinators, L-R: Justin Townsend, Ramsey County (current coordinator), Carole Gernes, City of Maplewood, Paul Erdmann, RWMWD**

## Q. Public Involvement and Education Program – Sage Passi

### Summer: Time to Catch Up on Learning and Prep for Upcoming Events



**Above Left:** Organic Bob shares tips about regenerating soil health at a Blue Thumb/Metro Blooms Partner get-together at Bang Brewery on July 20 attended by Sage Passi and John Chikkala. **Above, Center:** Carolyn Dindorf, limnologist with Bolton and Menk examines aquatic plants living in Bush Lake at a recent aquatic invasive species training. **Above Right:** The newly installed wayfinding sign at Battle Creek Regional Park near our recent Wilderness in the City planting project. See this link to a video to learn more about the artists involved in the creation of these new Ramsey County Park signs that were designed and created by five artists who represent different racial and ethnic backgrounds.

<https://www.youtube.com/watch?v=pKmmAKRTjhg>

The month of July has granted us a bit of a breather before the next round of events kicks off at the end of this month. After such an action-packed spring, this break in the action has given us the opportunity to do a bit of learning ourselves, start our planning process for projects coming up in the future and prepare for several outreach events. On June 27, Sage attended an aquatic invasive species identification and information workshop hosted by the Bush Lake Chapter of the Izaak Walton League at their clubhouse on Bush Lake in Bloomington. The key presenter, Carolyn Dindorf, a limnologist with Bolton and Menk has also provided many workshops on salt impacts/prevention in our local lakes and attended by our watershed staff over the years. Dindorf is also a workshop presenter at the upcoming Salt Symposium, a 2 day event online at the beginning of August. Watershed staff will have the opportunity to participate in this training online at our watershed office.

We are preparing to have a booth/tent/table at three upcoming events. The first, on July 29 is the Rivoli Bluff Bash, sponsored by our partner, Urban Roots. The second is National Night Out hosted by the East Side Boys and Girls Club in East St. Paul on August 1 from 4-7 PM. The third is the Pollinator Festival sponsored by on August 6 from 11-3 at the Lake Phalen Pavilion. We will be giving away many of the native seedling we grew in classes this year and handouts.





## New Sculpture Installed at the Boys and Girls Club



RWMWD's most recent support and incorporation of sculptures at project sites on the East Side of St. Paul and our collaboration with the East Side Boys and Girls Club date back to the years 2017-2018 when youth from the club became involved in designing several sculptures at nearby Ames Lake with the help of artist and teacher Aloun Phoulavan. These sculptures include a steel dragonfly installation near the wetland trail and a blue heron cast in bronze. At that time, Koreena Moua the director of the Club, expressed her commitment to place-based art,

"I think that that the more youth are involved, they will have a vested interest to love where they live and really take care of our environment."

Her vision didn't end when those sculptures were installed in 2020. Koreena also had a dream for a native garden in front of the Boys and Girls Club. That dream has become a reality thanks to the hard work of staff and youth from the Boys and Girls Club, L'Etoile du Nord classes, Ramsey County Master Gardeners and Water Stewards with support from RWMWD education staff and funding from the St. Paul Garden Club and the Watershed District.

But she also had a vision of a sculpture in the garden to honor the youth who have lost their lives on the east side of St. Paul. The Boys and Girls Club site already had a monument honoring the life of Police Officer James Sackett who was shot in the line of duty. Koreena expressed interest in engaging several youth from the Boys and Girls Club in the sculpture design process. This has resulted in two sculptures, with Aloun providing guidance and support in their design and development. The first sculpture, depicting two youth together was created out of steel and installed in the garden last fall. Below are two seasonal views of it.





**To:** Board of Managers and Staff  
**From:** Tina Carstens and Brad Lindaman  
**Subject:** Project and Program Status Report July 2023  
**Date:** July 27, 2023

---

Page 14

Aloun also worked with another youth, Niko Lor to develop a design for a bronze sculpture that depicts a youth with a dragonfly on his hand honoring Koreena's vision and hope for young people in her community, goals she strives for in all the work within the Boys and Girls Club's vision. This sculpture has been a project in the works for over a year.

Randee Edmundson, a member of our CAC has been an integral supporter of these projects. She had the honor of accompanying Niko and Max Thao, the Boys and Girls Club youth program director to pick up this latest finished art piece at the foundry, American Bronze in Osceola, Wisconsin. She worked with Brian Myers, Oak Meadows Landscape/Design to coordinate its installation. A dedication ceremony for the sculptures is tentatively scheduled for August 1 at the National Night celebration at the Boys and Girls Club in St. Paul.

## **R. Communications and Outreach Program – Lauren Hazenson**

### **Content Creation**

#### **Displays and Handouts**

The staff workgroup has created a list of display and handout materials for various audiences to address several organization goals. These include general RWMWD introduction materials, handouts and displays covering best practices, materials encouraging active partnership or volunteering, and program-specific topics like grant participation. Subgroups for each display and handout need have been formed and will be facilitated by Communications staff, who will also ensure brand and tone consistency throughout the materials. The first set of materials has a goal completion date in mid-September.

#### **Community Survey**

Communications will hire a contractor to format and deliver a survey to a representative portion of District residents this winter. This survey will help staff gauge the level of awareness the average person has of RWMWD and our work, as well as their attitudes toward water quality. We are in the process of deciding between government-focused community survey contractors based on their range of services and their overall cost.

#### **Website Accessibility Audit**

Almost all residents will have accessibility needs at some point in their lives. To better reach all who live, work, or own property in the District, we are pursuing an accessibility audit of our communications. Although some accessibility improvements were made during the 2022 website redesign, there are still some improvements to be made. Our social media, newsletter, blog, and video content have also not been assessed for their overall accessibility. We are reviewing possible contractors to deliver the audit and train staff to create accessible content.

#### **E-newsletter**

Audience: 1,567

Opens: 47.2%

Link clicks: 5%

#### **Social Media (Facebook, Twitter, Instagram)**

**Numbers as of 7/24:**

##### **Facebook**

Reach: 2,500

Engagement(likes, shares, comments): 368

Audience: 1,590

**To:** Board of Managers and Staff  
**From:** Tina Carstens and Brad Lindaman  
**Subject:** Project and Program Status Report July 2023  
**Date:** July 27, 2023

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Page 16

### **Instagram**

Reach: 833

Engagement: 94

Audience: 793

### **Twitter**

Reach: 247

Engagement: 4

Audience: 992

### **Resident Communications/Professional Development/ Public Meetings, Misc.**

- Staff/resident communications support
- White Bear Lake Market Days, July 27
- 3PAC Webinar: Safeguarding Reputation in an Age of Rage
- MAGC Workshop: Drone Systems
- Right Track Career Panel: July 25