



**RAMSEY-WASHINGTON**  
METRO WATERSHED DISTRICT

# **July 2023 Board Packet**

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# Agenda

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## **Regular Board Meeting Agenda**

Wednesday, June 28, 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 7, 2023 (pg. 7)
  - B. Treasurer's Report and Bill List (pg. 15)
  - C. Permit Program
    - i. 23-18 Gramsie Junction, Shoreview (pg. 27)
    - ii. 23-19 Battle Creek Middle School Stormwater Retrofit, St. Paul (pg. 33)
    - iii. 23-21 MWWTP Lab Services Building, St. Paul (pg. 38)
  - D. Stewardship Grant Program
    - i. 23-27 CS Chikkala, rain garden (pg. 42)
    - ii. 23-28 CS Lake Phalen Aquatic Vegetation Harvesting (pg. 44)
  - E. 2023 CIP Maintenance and Repair – Change Order No. 2 (pg. 46)
4. Visitor Comments (limited to 4 minutes each)
5. **Public Hearing for 2023 Permit Rule Revisions (materials found on website or June 2023 packet)**
6. Permit Program
  - A. Applications
    - i. **23-20 Gerdau TMS Area Restoration, St. Paul (pg. 51)**
  - B. Enforcement Action Report (pg. 60)
7. Stewardship Grant Program
  - A. Applications – see consent agenda
  - B. Budget Status Update (pg. 63)
8. Action Items - NONE
9. Attorney Report
10. Board Discussion Topics
11. New Reports and/or Presentations
  - A. 2023 Budget Planning Memo (pg. 65)
  - B. Woodbury Target Store Targeted Retrofit Scope Summary Update (pg. 70)
  - C. Kohlman Lake Aquatic Plant Management Effect Study (pg. 74)
12. Administrator's Report (pg. 80)
  - A. Meetings Attended
  - B. Upcoming Meetings and Dates

- C. Board Action Log and Updates
- D. Minnesota Watersheds Updates
- E. Staffing Updates
- 13. Project and Program Status Reports (*pg. 84*)
  - 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
    - F. Street Sweeping Study
  - Research Projects*
    - G. Kohlman Lake Aquatic Plans 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. Citizen Advisory Committee (CAC)
- 14. Manager Comments and Next Month's Meeting
- 15. **Adjourn**





# **RAMSEY-WASHINGTON**

## **METRO WATERSHED DISTRICT**

### **NOTICE OF BOARD MEETING**

**Wednesday, June 28, 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/82116130901?pwd=dStpYWM5YldMWHVqVUg5ZjRGRW9oUT09>

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 **821 1613 0901**. The meeting password is **971278**. 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

### Ramsey-Washington Metro Watershed District Minutes of Regular Board Meeting June 7, 2023

The Regular Meeting of June 7, 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/lyru8HYt1yM>. Video time stamps included after each agenda item in minutes.

#### **PRESENT:**

Val Eisele, President  
Dr. Pam Skinner, Vice President  
Matt Kramer, Treasurer  
Ben Karp, Secretary  
Mark Gernes, Manager

#### **ABSENT:**

#### **ALSO PRESENT:**

Tina Carstens, District Administrator  
Nicole Maras, Permit Coordinator  
Emily Fitzgerald, Administrative Assistant  
Joe Tillotson, Natural Resources Technician  
Laurann Kirschner, Attorney for District  
John Chikkala, Citizen Advisory Committee  
Bob Barth, WSB

Paige Ahlborg, Project Manager  
Erin Anderson Wenz, Barr Engineering  
Lyndsey Flaten, Water Monitoring Technician  
Dave Vlasin, Project Coordinator  
Nicole Peterson, BMP Intern  
Kathryn Sarnecki, St. Paul Port Authority

#### **1. CALL TO ORDER**

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

#### **2. APPROVAL OF AGENDA (00:18)**

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

Further discussion: Manager Karp requested to remove Permit #23-13 from the Consent Agenda. Tina Carstens noted that can be considered as Item A under the Permit Program.

Motion: Manager Kramer moved, Manager Gernes seconded, to approve the agenda as amended. Motion carried unanimously.

#### **3. CONSENT AGENDA (01:25)**

- A. Approval of Minutes from April 5, 2023
- B. Approval of Minutes from May 3, 2023
- C. Treasurer's Report and Bill List
- D. Permit Program
  - i. ~~23-13: Snail Lake Boat Launch, Shoreview~~
  - ii. 23-14: Gladstone Village, Maplewood
  - iii. 23-16: MnDOT Hwy 5 Improvements, St. Paul/Maplewood

- E. Stewardship Grant Program
- i. 23-20 CS: Escape Climbing, Rain Gardens
  - ii. 23-21 CS: Kosobayashi Phase 3, Native Habitat Restoration
  - iii. 23-22 CS: Snail Lake Aquatic Vegetation Harvesting
  - iv. 23-23 CS: Nelson, Rain Garden

Motion: Manager Gernes moved, Manager Kramer seconded, to approve the consent agenda as presented.

Further discussion: President Eisele asked for more information on the offsite treatment proposed for Permit #23-16. Nicole Maras provided more details on the alternate compliance sequencing noting that if it can be demonstrated that onsite treatment cannot be provided, offsite treatment or purchase of credits could be considered. She stated that the storage requirements would be exceeded, but that would occur north of the site. She commented that rate control would be provided onsite.

Manager Gernes asked how entities would initiate a request for offsite treatment or use of credits. Nicole Maras explained the process that would be followed and information that would need to be provided. Manager Skinner noted that the applicant would first need to look onsite and then within the subwatershed before looking further out.

Motion carried unanimously.

#### **4. VISITOR COMMENTS (08:40)**

No comments.

#### **5. PERMIT PROGRAM (09:31)**

##### A. Applications

##### Permit #23-13: Snail Lake Boat Launch - Shoreview

Manager Karp commented that he was in charge of the design and therefore will be abstaining.

Nicole Maras stated that this is a boat launch replacement and partial parking lot replacement on Snail Lake. She commented that the stormwater permit is not triggered for this permit. The County Parks Department has provided cut and fill information to ensure there is not a loss of floodplain storage.

President Eisele referenced the wetland diagram and asked for clarification. Nicole Maras provided additional clarification noting that the applicant does not anticipate going into the fringe near the delineated wetland.

Motion: Manager Kramer moved, Manager Skinner seconded, to approve Permit #23-13.

A roll call vote was performed:

Manager Skinner	aye
Manager Karp	abstain
Manager Gernes	aye
Manager Kramer	aye
President Eisele	aye

Motion carried unanimously.

##### Permit #23-15: Maplewood Myrtle-Sterling 2023 SIP – Maplewood

Nicole Maras provided details on the proposed roadway reconstruction project including the proposed water treatment elements. She noted that a pipe would be proposed to outlet the basin to the wetland and therefore

there is a wetland variance request included. She stated that the cut and fill information was provided on this request as well.

Manager Karp commented that Maplewood has stricter requirements for wetland buffers than the District and asked if the applicant would need to provide proof of exemption from the City rules. Nicole Maras stated that she is unsure if the road projects are exempt from the City wetland buffer requirements. She stated that the District cannot hold up its approval as the project meets the District rules and doesn't enforce the city requirements. Manager Karp stated that perhaps the City Council could provide a letter stating that it has approved the exemption for this project. Tina Carstens reiterated that the District could not withhold the permit on that condition, but the applicant would need to meet the City rules. Nicole Maras stated that she can request clarification.

Manager Gernes asked if there has been any discussion about the proposed outfall with the riprap and asked if that is the only option for an outfall. He commented that it does not seem like an area that would be prone to erosion. Nicole Maras stated that the District prefers dissipation of some type at the outlet, as erosion would be more impactful than the riprap. She noted that the basin will outlet during rain events and therefore they would want the outlet and energy dissipation. Manager Gernes asked who would be responsible for the maintenance of the basin. Nicole Maras replied that it would be the responsibility of the municipality. Manager Gernes stated that perhaps this would be an opportunity to require the City to clean out the basin. Tina Carstens stated that recommendation could be passed to the City.

President Eisele asked if there are rules related to building in this wetland area. Nicole Maras stated that the applicant had to receive a Wetland Conservation Act (WCA) Permit and boundary approved. She stated that the WCA allows for small impacts of this type.

Motion: Manager Gernes moved, Manager Kramer seconded, to approve Permit #23-15 with variance. Motion carried unanimously.

Permit #23-17: The Heights Phase I – St. Paul

Nicole Maras presented a request for Phase I of the Heights development, which is a mixed-use development. She stated that there has been a lot of soil investigation on the site and discovered widespread mercury contamination throughout and soil remediation will be required and monitored by the MPCA and Department of Agriculture. She explained that Phase I proposes the demolition of the existing golf course building, parking lot and impervious trails and will then begin soil remediation and grading. She noted that a number of wetlands are proposed to be impacted during the soil remediation and the applicant proposes one to one replacement of wetlands onsite with the remaining replacement required done through the purchase of credits, as a replacement rate of two to one is required. She stated that there is a variance request for the contamination removal and final proposed buffers. She stated that the city of Saint Paul is the LGU for wetland permitting and approved the wetland replacement plan in May.

President Eisele asked for clarification on the wetlands that would be impacted and constructed. Nicole Maras noted that there are currently 10 wetlands and five would exist after, through a combination of those that will remain and those that will be constructed.

Manager Skinner asked if the applicant is requesting the reduced buffers at this time. Nicole Maras confirmed that the wetland buffer variance is a part of this request. She noted that the existing wetlands that will remain will have buffers that exceed the requirements while the buffer requirements would not be met with mitigation wetlands D and H. She confirmed that the additional buffer that will be provided on that natural wetlands will exceed the buffer shortage on the constructed wetlands. She also confirmed that the constructed wetlands would be designated as manage A after construction.

President Eisele asked if it is more important to meet the minimum buffer or average buffer and what would prevent them from meeting the minimum buffer. Nicole Maras stated that would be the decision of the Board tonight and noted that the applicant has provided their narrative. President Eisele recognized the reasoning provided which was job creation and asked the impact four additional feet would have on that. Nicole Maras noted that additional details are provided about the design plans.

Manager Karp noted that H would meet the minimums with the exception of the area near the road.

Manager Skinner stated that she would be interested in knowing the size of the different wetlands. She commented that if the wetlands that will have larger buffers are larger, and the wetlands with smaller buffers are smaller, it would seem to equal out and make sense but would not want to see that in reverse. President Eisele noted that there are drawings showing the different sizes and where buffers would be smaller. He asked if the constructed wetlands could be slightly shifted to meet the minimums. Bob Barth commented that they could move it around but would be trading one buffer for another. He commented that along the boulevard there is a 25-foot landscaped buffer in addition to the District buffer.

President Eisele stated that he is concerned with the statement that additional variances could be requested for pathways, etc. Manager Skinner also expressed concern with that. Nicole Maras stated that the desire is for the public to interact with the wetland areas, but they are not to that point in design and therefore if those amenities are requested in the future, it would need to follow the variance process as well.

Manager Gernes commented that as he understands it, this variance is requested for the brownfield work and grading, and future design and requests will come forward once this phase is completed. Bob Barth replied that these are final grading and wetland plans. He stated that the only additional requests related to the wetlands would be amenity related, such as boardwalks.

Manager Karp stated that a future variance request would seem to be more amenity related and educational, therefore he is not as concerned with that.

Manager Kramer stated that he is very comfortable with this, and a future request would be an environmental amenity.

President Eisele stated that he struggles with the buffer that would simply need four feet to meet the minimum. Kathryn Sarnecki stated that between the existing wetland and mitigated wetland there is a small space between the buffers, and they wanted to leave space for people to go through that area. She stated that if the Board would prefer that to be shifted, with knowledge that they may come back to request those amenities, they could agree to that. It was noted that there is a slope as well that may not qualify as a buffer under WCA.

President Eisele stated that it sounds like the applicant has accounted for walkway space which is why the buffer has shrunk in some areas.

Bob Barth stated that they are planning for linear BMPs throughout the site that would come forward with each parcel of development.

Manager Gernes asked the likelihood that a stormwater BMP would be in the buffer. Nicole Maras stated that a BMP would not be allowed in the buffer. Bob Barth confirmed that they would not have BMPs within the buffers.

Manager Skinner asked what would happen if the variance for buffers was not approved. Bob Barth replied that they would need to know why. He commented that they were trying to create a central area where people could experience the wetlands. He stated that they could pinch that in, but the buffer would remain the same.

Manager Karp stated that he likes that the future access was included as this is a multi-modal, mixed-use development and it is great to think ahead with this wetland area. He stated that he supports the request.

Manager Gernes commented that he is also comfortable with the request as more buffer will be provided in some areas and less in others. He believed that the smaller buffers would still address water quality.

President Eisele stated that he is also comfortable after the discussion tonight.

Motion: Manager Skinner moved, Manager Karp seconded, to approve Permit #23-17 with variance. Motion carried unanimously.

**B. Monthly Enforcement Report**

During May, four notices were sent to address: install/repair inlet protection (1), remove discharged sediment (1), implement proper dewatering (1), and contain liquid/solid waste (1).

**C. Rule Changes – Authorize Distribution for Formal Review and Comment**

Nicole Maras stated that the District has been working on this since last year in conjunction with Capitol Region Watershed District. She noted that they did an informal review with the cities, counties, state agencies, and private engineering industrial to gain that feedback. She stated that the action tonight would be for the Board to authorize the formal review period. She stated that during that comment period, the Board can also provide comments and grammatical edits.

President Eisele stated that it would seem prudent to authorize this for formal review period and the Board can provide its comments at the next meeting. Tina Carstens stated that minor items could be addressed by calling or emailing Nicole Maras.

Motion: Manager Skinner moved, Manager Gernes seconded, to authorize the distribution of the revised rules for a formal 45-day public review and comment period.

Further discussion: Laurann Kirschner stated that public notice will need to be provided prior to the public hearing and asked if that would occur at the next meeting or after the review period. Nicole Soderholm stated that they were planning to do that at the next meeting, but that could be pushed. She stated that she does have a draft notice ready to send to legal counsel for review and they could further discuss it at that time to ensure there would be sufficient time.

Motion carried unanimously.

**6. STEWARDSHIP GRANT PROGRAM (1:10:25)**

**A. Applications**

**Permit #23-19 CS: Ramsey County Beaver Lake, Shoreline Restoration**

Paige Ahlborg stated that this was not included on the Consent Agenda because it is a Ramsey County project. She was unsure if Manager Karp worked on this project and would need to abstain. She commented that this project would be led by the Parks and Recreation Department and provided a brief overview of the shoreline restoration project. She noted that the County did receive grant funds that will be used in addition to the requested District funds.

Motion: Manager Skinner moved, Manager Kramer seconded, to approve Permit #23-19 CS.

Further discussion: Manager Karp asked for a legal opinion on whether he could vote on this item as he has not been involved in the design. Laurann Kirschner replied that Manager Karp could vote on this item.

Motion carried unanimously.

**B. Budget Status Update**

Paige Ahlborg provided an overview of the report.

**7. ACTION ITEMS (1:13:30)**

**A. 2023 Enhanced Street Sweeping Grant Funding**

Paige Ahlborg stated that after reviewing the study and presenting that to the Board, the Board approved allocation of \$128,000 of carryover funds from the Stewardship Grant Program for enhanced street sweeping grants for use this fall. She stated that staff had individual meetings with each of the cities to confirm survey data and receive requests. She noted that each city was provided the opportunity to request funding but not all chose to submit a request. She stated that many cities expressed interest in funding for equipment purchases, but funding does not allow for that at this time. She stated that Woodbury submitted the most significant request, following their own study. She noted that pending approval tonight, Woodbury would begin monthly sweepings later this month or in July. She stated that Landfall, Little Canada, and Oakdale would hire a contractor to do one or two additional sweepings in the fall. She noted that White Bear Lake felt it did not have the capacity to take this on this year but ranked high as an area of recovery and therefore the District looked at two priority areas within White Bear Lake. She noted that the District would look to hire a contractor for that service and White Bear Lake was open to that process.

President Eisele referenced the contract option that includes White Bear Lake and asked if that would include the mentioned targeted areas. Paige Ahlborg confirmed that only those targeted areas would be addressed in White Bear Lake whereas the other cities would be complete. Tina Carstens stated that the District would hire the contractor for the White Bear Lake areas, which would also provide the District with that experience of direct contracting.

President Eisele stated that he was surprised at the amount proposed for Woodbury, as the city already received \$30,000. Paige Ahlborg replied that the Board approved \$50,000 last year but only about \$17,000 was used. She recognized that it is a significant cost but would be six sweepings. President Eisele stated that he believes this is a cost-effective BMP and therefore does not have an issue with the request as proposed.

Manager Gernes asked if there was a sense of how many of the cities have their own equipment or work with contractors, or whether there is equipment sharing between cities. He asked if the best method moving forward would be funding, or equipment related. Paige Ahlborg stated that most cities, with the exception of Landfall, have their own equipment but some cities also contract out some of the sweeping. She stated that she can provide that detailed information to the Board including equipment replacement schedules. She stated that there was discussion about equipment sharing but because the equipment is needed at the same time, that is not a realistic option. Tina Carstens stated that it seems that many of the cities would contract for the additional sweeping and therefore funding would be preferred. She stated that if additional funds were needed, a request could come back to the Board to use funds from the Stewardship Grant Program.

Motion: Manager Skinner moved, Manager Kramer seconded, to approve the 2023 enhanced street sweeping grant requests and direct staff to coordinate a street sweeping contract for services in White Bear Lake.

Further discussion: Manager Karp referenced the cities that did not express interest and asked if that is explained in the data/report or could be provided in more detail in the future. He asked if a traffic study was done within the cities that are not interested to determine priority areas because of increased sedimentation from traffic flows. Paige Ahlborg replied that the notes from the individual city meetings were not included in the study as they occurred after the study was completed. She noted that she could provide those details and provided a brief summary of why some of the cities chose not to participate. She confirmed that there is data that could be used to



determine priority areas for sweeping in the future. Erin Anderson Wenz stated that while traffic counts were not included, tree cover was considered.

Motion carried unanimously.

**8. ATTORNEY REPORT (1:27:40)**

Laurann Kirschner had nothing to report.

**9. BOARD ISSUES, POLICIES, AND OPERATION (FOR DISCUSSION AT MEETING) (1:28:02)**

Manager Gernes asked if there are any planned tours. Tina Carstens stated that typically during the growing season they would do a tour prior to the Board meeting if there are applicable sites.

President Eisele asked if there would be an opportunity to hold a tour prior to the next meeting. Tina Carstens noted that there could be a potential. She stated that the Board could reach out to her if they have any requests.

President Eisele stated that he likes that the CAC is being incorporated more and would like to think about more ways to involve that group.

**10. NEW REPORTS AND/OR PRESENTATIONS (1:31:40)**

**A. Review of Equity Area Definition**

Erin Anderson Wenz provided an overview of the equity dataset evaluation. She reviewed the three equity datasets that were evaluated and provided a brief summary of the data included in each.

Manager Gernes asked if the Ramsey County information has been used by the County. Erin Anderson Wenz noted that the information was published but has not been updated. Tina Carstens noted another Ramsey County study that utilized this information. Manager Gernes referenced the Met Council dataset, noting that much of that data is susceptible to change in a short period of time. Erin Anderson Wenz was unsure how often that data would be updated.

President Eisele asked if there would be anything that would prevent using more than one index. Erin Anderson Wenz replied that could be done but there is a lot of overlap. Tina Carstens stated that this data is used for the Stewardship Grant Program as homes within the equity area would qualify for 100 percent funding. She noted that the data is also used for prioritization ranking and in other program areas.

Manager Karp noted that the District can use pieces from each of these datasets. He noted that there are other factors to consider in terms of equity.

Manager Gernes commented that there are social elements as well as physical elements to be considered. Erin Anderson Wenz commented that staff could dig into the data further to determine why an area was identified in one set versus another. Manager Karp commented that he would like to know how social aspects are ranked versus climate aspects. She noted that when they bring this back again, they can further explain the prioritization tool as well.

**11. ADMINISTRATOR'S REPORT (1:59:00)**

**A. Meetings Attended**

No comments.

**B. Upcoming Meetings and Dates**

Tina Carstens noted that the next meeting will be held on June 28<sup>th</sup> to avoid the July 4<sup>th</sup> holiday.

**C. Board Action Log and Updates**

President Eisele asked for an update on the West Vadnais boundary change process. Tina Carstens stated that part of the delay is due to staffing constraints and changes from the District, Vadnais Heights, and BWSR. President Eisele commented that it would be nice to have that completed prior to the budgeting discussions.

D. Minnesota Watersheds Updates

No comments.

E. WaterFest

President Eisele commended staff for a phenomenal job on WaterFest noting that his kids enjoyed all the activities. Tina Carstens commented that it was a great event and staff will provide more input going forward.

F. District Budget Process

Tina Carstens stated that information was included on the District budget process and timeline which will begin the following month.

G. Staffing Updates

Tina Carstens provided an update on recent staffing hires.

**12. PROJECT AND PROGRAM STATUS REPORTS (2:05:37)**

*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
- F. Street Sweeping Study

*Research Projects*

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

*Project Operations*

- I. 2023 Automated Lake-Level Stations

*Capital Improvements*

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

*CIP Project Repair and Maintenance*

- P. 2023 CIP Maintenance and Repair Project

*Program Updates*

- Q. Natural Resources Program
- R. Public Involvement and Education Program

**13. MANAGER COMMENTS AND NEXT MONTH'S MEETING (2:06:33)**

No comments.

**14. ADJOURN**

Motion: Manager Skinner moved, Manager Karp seconded, to adjourn the meeting at 8:37 p.m. Motion carried unanimously.

**RWMWD BUDGET STATUS REPORT**  
**Administrative & Program Budget**  
**Fiscal Year 2023**  
**6/30/2023**

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	-	448.49	2,160.86	1,339.14	61.74%
	<b>Sub-Total: Managers/Committees:</b>		<b>\$13,500.00</b>	<b>\$0.00</b>	<b>\$448.49</b>	<b>\$2,535.86</b>	<b>\$10,964.14</b>	<b>18.78%</b>
Employees	Staff salary/taxes/benefits	4010	1,860,000.00	-	120,827.28	839,389.98	1,020,610.02	45.13%
	Employee expenses	4020	15,000.00	-	735.43	2,956.38	12,043.62	19.71%
	District training & education	4350	75,000.00	-	721.85	2,284.30	72,715.70	3.05%
	<b>Sub-Total: Employees:</b>		<b>\$1,950,000.00</b>	<b>\$0.00</b>	<b>\$122,284.56</b>	<b>\$844,630.66</b>	<b>\$1,105,369.34</b>	<b>43.31%</b>
Administration/ Office	GIS system maint. & equip.	4170	10,000.00	-	-	1,257.25	8,742.75	12.57%
	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	296.70	1,703.30	14.84%
	Office supplies	4320	7,000.00	-	1,186.85	3,922.58	3,077.42	56.04%
	IT/Internet/Web Site/Software Lic.	4325	85,000.00	-	9,342.36	44,501.76	40,498.24	52.36%
	Postage	4330	2,000.00	-	-	174.15	1,825.85	8.71%
	Printing/copying	4335	5,000.00	-	294.00	2,647.28	2,352.72	52.95%
	Dues & publications	4338	15,000.00	-	-	12,500.00	2,500.00	83.33%
	Janitorial/Trash Service	4341	15,000.00	-	-	6,360.86	8,639.14	42.41%
	Utilities/Bldg.Contracts	4342	30,000.00	-	1,538.83	5,331.38	24,668.62	17.77%
	Bldg/Site Maintenance	4343	125,000.00	-	8,465.10	82,594.38	42,405.62	66.08%
	Miscellaneous	4390	5,000.00	-	-	-	5,000.00	0.00%
	Insurance	4480	60,000.00	-	-	44,347.00	15,653.00	73.91%
	Office equipment	4703	100,000.00	-	-	4,240.57	95,759.43	4.24%
	Vehicle lease, maintenance	4810-40	20,000.00	-	277.59	2,726.81	17,273.19	13.63%
	<b>Sub-Total: Administration/Office:</b>		<b>\$503,000.00</b>	<b>\$0.00</b>	<b>\$21,164.07</b>	<b>\$210,900.72</b>	<b>\$292,099.28</b>	<b>41.93%</b>
Consultants/ Outside Services	Auditor/Accounting	4110	75,000.00	-	2,647.17	41,929.62	33,070.38	55.91%
	Engineering-administration	4121	132,000.00	-	4,994.00	35,453.43	96,546.57	26.86%
	Engineering-permit I&E	4122	10,000.00	-	-	-	10,000.00	0.00%
	Engineering-eng. review	4123	70,000.00	-	4,534.50	26,894.00	43,106.00	38.42%
	Engineering-permit review	4124	59,000.00	-	1,967.00	25,287.00	33,713.00	42.86%
	Project Feasibility Studies	4129	395,000.00	-	10,578.50	91,463.88	303,536.12	23.16%
	Attorney-permits	4130	5,000.00	-	-	-	5,000.00	0.00%
	Attorney-general	4131	40,000.00	-	1,354.60	11,149.60	28,850.40	27.87%
	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>\$26,075.77</b>	<b>\$232,177.53</b>	<b>\$573,822.47</b>	<b>28.81%</b>
Programs	Educational programming	4370	70,000.00	-	3,582.02	18,719.41	51,280.59	26.74%
	Communications & Marketing	4371	50,000.00	-	858.12	1,878.21	48,121.79	3.76%
	Events	4372	51,000.00	-	9,318.02	48,629.86	2,370.14	95.35%
	Water QM-Engineering	4520-30	240,000.00	-	13,861.08	65,278.33	174,721.67	27.20%
	Project operations	4650	200,000.00	-	3,934.56	15,470.66	184,529.34	7.74%
	SLMP/TMDL Studies	4661	142,000.00	-	-	503.00	141,497.00	0.35%
	Natural Resources/Keller Creek	4670-72	120,000.00	-	3,197.55	27,708.97	92,291.03	23.09%
	Outside Prog.Support/Weed Mgmt.	4683	57,000.00	-	-	14,869.33	42,130.67	26.09%
	Research Projects	4695	155,000.00	-	9,401.00	35,822.69	119,177.31	23.11%
	Health and Safety Program	4697	4,000.00	-	758.64	787.79	3,212.21	19.69%
	<b>Sub-Total: Programs:</b>		<b>\$1,089,000.00</b>	<b>\$0.00</b>	<b>\$44,910.99</b>	<b>\$229,668.25</b>	<b>\$859,331.75</b>	<b>21.09%</b>
<b>GENERAL FUND TOTAL</b>			<b>\$4,361,500.00</b>	<b>\$0.00</b>	<b>\$214,883.88</b>	<b>\$1,519,913.02</b>	<b>\$2,841,586.98</b>	<b>34.85%</b>
CIP's	CIP Project Repair & Maintenance	516	1,500,000.00	-	180,946.87	735,259.39	764,740.61	49.02%
	Targeted Retrofit Projects	518	1,500,000.00	-	25,584.50	203,988.48	1,296,011.52	13.60%
	Flood Risk Reduction Fund	520	5,200,000.00	-	3,206.99	223,266.55	4,976,733.45	4.29%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	395,404.00	-	26,976.25	305,063.03	90,340.97	77.15%
	Stewardship Grant Program Fund	529	1,128,000.00	-	3,870.00	57,835.12	1,070,164.88	5.13%
	Double Driveway Water Quality Optimization	537	675,000.00	-	2,470.00	35,111.99	639,888.01	5.20%
	Wetland Restoration Projects	540	500,000.00	-	-	-	500,000.00	0.00%
<b>CIP BUDGET TOTAL</b>			<b>\$10,898,404.00</b>	<b>-</b>	<b>\$243,054.61</b>	<b>\$1,560,524.56</b>	<b>\$9,337,879.44</b>	<b>14.32%</b>
<b>TOTAL BUDGET</b>			<b>\$15,259,904.00</b>	<b>\$0.00</b>	<b>\$457,938.49</b>	<b>\$3,080,437.58</b>	<b>\$12,179,466.42</b>	<b>20.19%</b>

**Current Fund Balances:**

Fund:	Unaudited Beginning Fund Balance @ 12/31/22	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Unaudited Fund Balance @ 06/30/23
101 - General Fund	\$2,313,604.42	-	220,769.39	214,883.88	1,519,913.02	1,014,460.79
516 - CIP Project Repair & Maintenance	1,143,456.57	-	12,472.86	180,946.87	735,259.39	420,670.04
518 - Targeted Retrofit Projects	164,101.49	-	70,147.50	25,584.50	203,988.48	30,260.51
520 - Flood Damage Reduction Fund	5,075,970.05	-	54,973.86	3,206.99	223,266.55	4,907,677.36
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	551,908.60	-	-	26,976.25	305,063.03	246,845.57
529 - Stewardship Grant Program Fund	428,736.05	-	-	3,870.00	57,835.12	370,900.93
536 - Stormwater Impact Fund	358,950.00	-	782,281.00	-	-	1,141,231.00
537 - Double Driveway Water Quality Optimization Implementation	-	-	-	2,470.00	35,111.99	(35,111.99)
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>\$ 1,140,644.61</b>	<b>\$ 457,938.49</b>	<b>\$3,080,437.58</b>	<b>\$10,060,457.21</b>

**Ramsey Washington Metro Watershed Dist.**  
**Check Register**  
**For the Period From June 1, 2023 to June 30, 2023**

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	06/02/23	hea002	Jul-23	HealthPartners	Employee Benefits	\$10,448.56
EFT	06/01/23	met008	Jun-23	MetLife-Group Benefits	Employee Benefits	1,553.56
73870	06/28/23	ada002	3655354	Adam's Pest Control, Inc.	Utilities/Building Services Contracts	94.72
73871	06/28/23	ahl001	6/14/23	Paige Ahlborg	Employee Benefits, Expenses	387.86
73872	06/28/23	att002	287256653401X05252023	AT&T Mobility	Project Operations	166.34
73873	06/28/23	aws001	S1335957-060123	AWS Service Center	Utilities/Building Services Contracts	319.83
73874	06/28/23	azz001	6056	Azzone Security Investigation Agency, Inc.	Events	1,287.00
73875	06/28/23	bar001	May 20 to June 9, 2023	Barr Engineering	May Engineering Expense	92,511.58
73876	06/28/23	blo001	6/5/23	Simba Blood	Education	2,400.00
73877	06/28/23	cad001	19604913	Zayo Group, LLC	Project Operations	198.22
73878	06/28/23	cit009	58919	City of St. Paul	Events	691.90
73879	06/28/23	dau001	Jun-23	Jennifer A. Dauer	Employee Expenses	71.40
73880	06/28/23	dav003	160498	Davey Resource Group, Inc.	Construction Improvements/Project Main. & Rep.	14,600.00
73881	06/28/23	dom001	22-28 CS	Mike Domroese	Stewardship Grant Program	1,068.75
73882	06/28/23	fir001	347911	First Student, Inc.	Education	383.52
73883	06/28/23	fit003	Jun-23	Emily F. Fitzgerald	Employee Benefits, Expenses	66.00
73884	06/28/23	gal001	June 15, 2023	Galowitz Olson, PLLC	Attorney General	1,354.60
73885	06/28/23	gil001	232562	Gilbert Mechanical Contractors, Inc.	Building/Site Maintenance	8,290.00
73886	06/28/23	int001	W23050483	Office of MN, IT Services	Telephone	59.34
73887	06/28/23	jui001	WF23	Juicebox, Inc.	Events	35.00
73888	06/28/23	kin001	61700009948	FedEx Office	Events	127.75
73889	06/28/23	kpc001	WF23	KP Concessions	Events	125.00
73890	06/28/23	kub001	Jun 23	Kyle W. Kubitz	Employee Benefits, Water Quality Monitoring	52.01
73891	06/28/23	lan009	18894630	Landbridge Ecological	Construction Improvements/Project Main. & Rep.	2,120.80
73892	06/28/23	lan011	17-32	Landmark Development	Escrow Refunds	32,800.00
73893	06/28/23	mbc001	1164	Mbohn Consulting, LLC	Events	5,064.95
73894	06/28/23	mel001	May/June 2023	Michelle L. Melser	Employee Benefits, Expenses	347.15
73895	06/28/23	met004	INV2297044	Metro Sales, Inc.	Office Supplies	643.00
73896	06/28/23	met013	1244	Metro - INET	Roseville IT Services/Web Site/Software/Licenses	9,246.10
73897	06/28/23	mid003	604211	Roseville Midway Ford	Vehicle Maintenance	242.59
73898	06/28/23	mil003	Progress Payment #4	Miller Excavating, Inc.	Construction Improvements/Project Main. & Rep.	131,862.88
73899	06/28/23	nel006	April-June 2023	Katrina Nelson	Employee Expenses, Natural Resource Program	62.60
73900	06/28/23	nor016	6/7/2023	Northland Trust Services, Inc.	Beltline & Battle Creek Tunnel Repair Debt Service	26,976.25
73901	06/28/23	nsp001	Jun-23	Xcel Energy	Project Operations	90.49
73902	06/28/23	pac001	Jun-23	Pace Analytical Services, Inc.	Water Quality Monitoring - Staff	7,409.00
73903	06/28/23	pas002	May/June 2023	Carol Passi	Employee Benefits, Expenses	263.24
73904	06/28/23	pel001	22-28 CS	Laurie Pellerite	Stewardship Grant Program	356.25
73905	06/28/23	pet004	June 2023	Ashley N. Petel	Employee Expenses	81.60
73906	06/28/23	pet004	June 2023	Nicole Peterson	Employee Expenses	26.86
73907	06/28/23	pre003	31964822	Premium Waters, Inc.	Utilities/Building Service Contracts	31.00
73908	06/28/23	red002	150479136	Redpath & Company, LLC.	Accounting	2,647.17
73909	06/28/23	red004	2393	Red Rock Fire	Natural Resources Program	3,168.25
73910	06/28/23	rmb001	M2300078	RMB Environmental Laboratories	Water Quality Monitoring - Staff	2,317.30
73911	06/28/23	roc001	2702	Rock Leaf Water Environmental	Construction Improvements/Project Main. & Rep.	9,974.17
73912	06/28/23	sai001	4055	Saint Paul Media	Communications and Marketing	50.00
73913	06/28/23	san003	June 14, 2023	Sandstrom Land Management	Construction Improvements/Project Main. & Rep.	1,770.00
73914	06/28/23	sim001	May-23	Emily Simmons	Employee Benefits, Expenses	407.00
73915	06/28/23	sod001	Jun-23	Nicole Soderholm	Employee Benefits, Expenses	93.06
73916	06/28/23	til002	Jun-23	Joseph S. Tillotson	Employee Benefits	40.00
73917	06/28/23	tim002	M28320	Timesaver Off-Site Secretarial, Inc.	Committee/Board Meeting Expenses	234.50
73918	06/28/23	tro002	23-6	Cathy Troendle	Education	105.00
73919	06/28/23	usb002	June 2023 Statement	U.S. Bank	May/June Credit Card Expense	4,669.75
73920	06/28/23	usb005	502862725	US Bank Equipment Finance	Copier Lease	294.00
73921	06/28/23	van001	June 2023 July 2023	Vanguard Cleaning Systems of Minnesota	Utilities/Building Service Contracts	1,188.00
73922	06/28/23	was002	6085	Washington Conservation District	Stewardship Grant Program	1,224.00
73923	06/28/23	wea002	Round Lake	Weaver Elementary School	Education	420.00
73924	06/28/23	wil007	Jun-23	Patrick Williamson	Employee Benefits, Expenses	80.12
<b>Total</b>						<b>\$382,600.02</b>
EFT	06/09/23	myp001	06/09/23	June 9th Payroll	4110-101-000	80.25
EFT	06/23/23	myp001	06/23/23	June 23rd Payroll	4110-101-000	82.35
Dir.Dep.	06/09/23	---	Payroll Expense-Net	June 9th Payroll	4010-101-000	31,968.68
EFT	06/09/23	int002	Internal Rev.Serv.	June 9th Federal Withholding	2001-101-000	10,910.83
EFT	06/09/23	mnd001	MN Revenue	June 9th State Withholding	2003-101-000	1,802.75
EFT	06/09/23	per001	PERA	June 9th PERA	2011-101-000	5,724.69
EFT	06/09/23	emp002	Empower Retirement	Employee Def. Comp. Contributions	2016-101-000	1,653.00
EFT	06/09/23	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	857.00
Dir.Dep.	06/23/23	---	Payroll Expense-Net	June 23rd Payroll	4010-101-000	33,574.28
EFT	06/23/23	int002	Internal Rev.Serv.	June 23rd Federal Withholding	2001-101-000	11,391.77
EFT	06/23/23	mnd001	MN Revenue	June 23rd State Withholding	2003-101-000	1,917.87
EFT	06/23/23	per001	PERA	June 23rd PERA	2011-101-000	5,973.80
EFT	06/23/23	emp002	Empower Retirement	Employee Def. Comp. Contributions	2016-101-000	1,653.00
EFT	06/23/23	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	857.00
<b>Payroll/Benefits:</b>						<b>\$108,447.27</b>
<b>Total</b>						<b>\$491,047.29</b>
<b>Accounts Payable/Payroll/Benefits:</b>						<b>\$491,047.29</b>

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From June 1, 2023 to June 30, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
06/02/23	EFT	hea002	HealthPartners	4040-101-000	Employee Benefits	\$10,448.56	
06/01/23	EFT	met008	MetLife-Group Benefits	4040-101-000	Employee Benefits	1,553.56	
06/28/23	73870	ada002	Adam's Pest Control, Inc.	4342-101-000	Utilities/Building Services Contracts	94.72	
06/28/23	73871	ahl001	Paige Ahlborg			387.86	
				4020-101-000			134.93
				4040-101-000			120.00
				4320-101-000			132.93
06/28/23	73872	att002	AT&T Mobility	4650-101-000	Project Operations	166.34	
06/28/23	73873	aws001	AWS Service Center	4342-101-000	Utilities/Building Services Contracts	319.83	
06/28/23	73874	azz001	Azzone Security Investigation Agency, Inc	4372-101-000	Events	1,287.00	
06/28/23	73875	bar001	Barr Engineering			92,511.58	
				4121-101-000	Engineering Admin		4,994.00
				4697-101-000	Health and Safety Program		703.00
				4123-101-000	Engineering Review		4,534.50
				4129-101-000	Project Feasability		3,056.00
				4129-101-000	Project Feasability		1,803.50
				4128-520-000	Project Feasability		3,116.50
				4129-101-000	Project Feasability		1,774.00
				4129-101-000	Project Feasability		458.50
				4129-101-000	Project Feasability		3,486.50
				4520-101-000	WQM-Engineering		184.00
				4520-101-000	WQM-Engineering		2,523.56
				4520-101-000	WQM-Engineering		1,045.00
				4124-101-000	Eng. Permit Review		1,967.00
				4695-101-000	Research Projects		987.50
				4695-101-000	Research Projects		7,826.50
				4695-101-000	Research Projects		587.00
				4650-101-000	Project Operations		3,570.00
				4128-518-000	Engineering -Targeted Retrofit		2,584.00
				4128-518-000	Engineering -Targeted Retrofit		6,758.50
				4128-518-000	Engineering -Targeted Retrofit		1,475.00
				4682-529-000	Stewardship Grant Program		1,221.00
				4128-518-000	Engineering -Targeted Retrofit		3,194.00
				4128-518-000	Engineering -Targeted Retrofit		11,573.00
				4129-537-000	Driveway Fish Creek Tributary		2,470.00
				4128-516-000	Eng. Projects-Maint & Repair		3,883.84
				4128-516-000	Eng. Projects-Maint & Repair		2,136.00
				4128-516-000	Eng. Projects-Maint & Repair		14,599.18
06/28/23	73876	blo001	Simba Blood	4370-101-000	Education	2,400.00	
06/28/23	73877	cad001	Zayo Group, LLC	4650-101-000	Project Operations	198.22	
06/28/23	73878	cit009	City of St. Paul	4372-101-000	Events	691.90	
06/28/23	73879	dau001	Jennifer Dauer	4020-101-000	Employee Expenses	71.40	
06/28/23	73880	dav003	Davey Resource Group, Inc.	4630-516-000	Construction Improvements/Project Maintenance & Repair	14,600.00	
06/28/23	73881	dom001	Mike Domroese	4682-529	Stewardship Grant Program	1068.75	
06/28/23	73882	fir001	First Student, Inc.	4370-101	Education	383.52	

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From June 1, 2023 to June 30, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
06/28/23	73883	fit004	Emily Fitzgerald			66.00	
				4040-101-000	Employee Benefits		40.00
				4020-101-000	Employee Expense		26.00
06/28/23	73884	gal001	Galowitz Olson, PLLC	4131-101-000	Attorney General	1,354.60	
06/28/23	73885	gil001	Gilbert Mechanical Contractors, Inc.	4343-101-000	Building / Site Maintenance	8,290.00	
06/28/23	73886	int001	Office of MN, IT Services	4310-101-000	Telephone	59.34	
06/28/23	73887	jui001	Juicebox Inc.	4372-101-000	Events	35.00	
06/28/23	73888	kin001	FedEx Office	4372-101-000	Events	127.75	
06/28/23	73889	kpc001	KP Concessions	4372-101-000	Events	125.00	
06/28/23	73890	kub001	Kyle Kubitza			52.01	
				4040-101-000	Employee Benefits		40.00
				4530-101-000	Water Quality Monitoring - Staff		12.01
06/28/23	73891	lan009	Landbridge Ecological	4630-516-000	Construction Improvements/Project Maintenance & Repair	2,120.80	
06/28/23	73892	lan011	Landmark Development	2024-101-000	Escrow Refunds	32,800.00	
06/28/23	73893	mbc001	Mbohn Consulting LLC	4372-101-000	Events	5,064.95	
06/28/23	73894	mel001	Michelle L. Melsei			347.15	
				4040-101-000	Employee Benefits		286.69
				4020-101-000	Employee Expenses		60.46
06/28/23	73895	met004	Metro Sales, Inc.	4320-101-000	Office Supplies	643.00	
06/28/23	73896	met013	Metro-INET	4325-101-000	Roseville IT Services/Web Site/Software/License	9,246.10	
06/28/23	73897	mid003	Roseville Midway Ford	4820-101-000	Vehicle Maintenance	242.59	
06/28/23	73898	mil003	Miller Excavating, Inc.	4630-516-000	Construction Improvements/Project Maintenance & Repair	131,862.88	
06/28/23	73899	nel006	Katrina Nelson			62.60	
				4020-101-000	Employee Expenses		52.60
				4670-101-000	Natural Resources Program		10.00
06/28/23	73900	nor016	Northland Trust Services, Inc.	4708-526-000	Beltline & Battle Creek Tunnel Repair Debt Service	26,976.25	
06/28/23	73901	nsp001	Xcel Energy	4650-520-000	Project Operations/Flood Damage Reduction Fund	90.49	
06/28/23	73902	pac001	Pace Analytical Services, Inc.	4530-101-000	Water Quality Monitoring - Staff	7,409.00	
06/28/23	73903	pas002	Carol Passi			263.24	
				4020-101-000	Employee Expenses		54.69
				4040-101-000	Employee Benefits		40.00
				4830-101-000	Vehicle Fuel		35.00
				4370-101-000	Education Program		133.55
06/28/23	73904	pel001	Laurie Pellerite	4682-529-000	Stewardship Grant Program	356.25	
06/28/23	73905	pet004	Ashley N. Petel			81.60	
				4020-101-000	Employee Expenses		73.60
				4670-101-000	Natural Resources Program		8.00
06/28/23	73906	pet004	Nicole Peterson	4020-101-000	Employee Expenses	26.86	
06/28/23	73907	pre003	Premium Waters, Inc.	4342-101-000	Utilities/Building Services Contracts	31.00	
06/28/23	73908	red002	Redpath & Company, LLC.	4110-101-000	Accounting	2,647.17	
06/28/23	73909	red004	Red Rock Fire	4670-101-000	Natural Resources Program	3,168.25	
06/28/23	73910	rmb001	RMB Environmental Laboratories	4530-101-000	Water Quality Monitoring - Staff	2,317.30	
06/28/23	73911	roc001	Rock Leaf Water Environmental LLC	4630-516-000	Construction Improvements/Project Maintenance & Repair	9,974.17	
06/28/23	73912	sai001	Saint Paul Media	4371-101-000	Communications and Marketing	50.00	
06/28/23	73913	san003	Sandstrom Land Management	4630-516-000	Construction Improvements/Project Main. & Rep	1,770.00	

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From June 1, 2023 to June 30, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
06/28/23	73914	sim001	Emily Simmons			407.00	
				4020-101-000	Employee Expenses		153.01
				4040-101-000	Employee Benefits		40.00
				4365-101-000	Committee/Board Meeting Expenses		213.99
06/28/23	73915	sod001	Nicole Soderholm			93.06	
				4040-101-000	Employee Benefits		40.00
				4020-101-000	Employee Expenses		53.06
06/28/23	73916	til002	Joseph S. Tillotson	4040-101-000	Employee Benefits	40.00	
06/28/23	73917	tim002	Timesaver Off-Site Secretarial, Inc.	4365-101-000	Committee/Board Meeting Expenses	234.50	
06/28/23	73918	tro002	Cathy Troendle	4370-101-000	Education	105.00	
06/28/23	73919	usb002	U.S. Bank			4,669.75	
				4343-101-000	Building / Site Maintenance		80.38
				4320-101-000	Office Supplies		39.24
				4320-101-000	Office Supplies		60.00
				4350-101-000	Training and Education		16.96
				4325-101-000	Roseville IT Services/Web Site/Software/License		96.26
				4320-101-000	Office Supplies		40.64
				4320-101-000	Office Supplies		97.00
				4372-101-000	Events		208.69
				4372-101-000	Events		59.98
				4320-101-000	Office Supplies		11.25
				4370-101-000	Education Program		139.95
				4372-101-000	Events		420.00
				4397-101-000	Health and Safety Program		55.64
				4372-101-000	Events		12.99
				4372-101-000	Events		161.24
				4350-101-000	Training and Education		377.80
				4371-101-000	Communications and Marketing		628.51
				4320-101-000	Office Supplies		50.00
				4530-101-000	Water Quality Monitoring - Staff		276.22
				4372-101-000	Events		440.52
				4371-101-000	Communications and Marketing		15.11
				4372-101-000	Events		94.12
				4320-101-000	Office Supplies		44.71
				4320-101-000	Office Supplies		7.90
				4372-101-000	Events		230.80
				4320-101-000	Office Supplies		15.25
				4371-101-000	Communications and Marketing		39.50
				4320-101-000	Office Supplies		6.99
				4350-101-000	Training and Education		204.54
				4530-101-000	Office Supplies		93.99
				4320-101-000	Office Supplies		36.00
				4372-101-000	Events		83.98
				4350-101-000	Training and Education		107.48
				4371-101-000	Communications and Marketing		125.00
				4372-101-000	Events		9.40
				4372-101-000	Events		264.70
				4350-101-000	Training and Education		15.07
				4320-101-000	Office Supplies		1.94

**Ramsey Washington Metro Watershed Dist.**  
**Cash Disbursements Journal**  
**For the Period From June 1, 2023 to June 30, 2023**

Date	Check #	Vendor ID	Name	Account ID	Description	Amount	
06/28/23	73920	usb005	US Bank Equipment Finance	4335-101-000	Copier Lease	294.00	
06/28/23	73921	van001	Vanguard Cleaning of Minnesota	4342-101-000	Utilities/Building Services Contracts	1,188.00	
06/28/23	73922	was002	Washington Conservation District	4682-529-000	Stewardship Grant Program	1,224.00	
06/28/23	73923	wea002	Weaver Elementary School	4370-101-000	Education	420.00	
06/28/23	73924	wil007	Patrick Williamson			80.12	
				4020-101-000	Employee Benefits		28.82
				4040-101-000	Employee Expenses		40.00
				4670-101-000	Natural Resources Program		11.30
		<b>Total</b>				<b><u>\$382,600.02</u></b>	
06/09/23	EFT	myp001	June 9th Payroll	4110-101-000	June 9th Payroll	80.25	
06/23/23	EFT	myp001	June 23rd Payroll	4110-101-000	June 23rd Payroll	82.35	
06/09/23	Dir.Dep.	---	June 9th Payroll	4010-101-000	June 9th Payroll	31,968.68	
06/09/23	EFT	int002	June 9th Federal Withholding	2001-101-000	June 9th Federal Withholding	10,910.83	
06/09/23	EFT	mnd001	June 9th State Withholding	2003-101-000	June 9th State Withholding	1,802.75	
06/09/23	EFT	per001	June 9th PERA	2011-101-000	June 9th PERA	5,724.69	
06/09/23	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	1,653.00	
06/09/23	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	857.00	
06/23/23	Dir.Dep.	---	June 23rd Payroll	4010-101-000	June 23rd Payroll	33,574.28	
06/23/23	EFT	int002	June 23rd Federal Withholding	2001-101-000	June 23rd Federal Withholding	11,391.77	
06/23/23	EFT	mnd001	June 23rd State Withholding	2003-101-000	June 23rd State Withholding	1,917.87	
06/23/23	EFT	per001	June 23rd PERA	2011-101-000	June 23rd PERA	5,973.80	
06/23/23	EFT	emp002	Employee Def. Comp. Contributions	2016-101-000	Employee Def. Comp. Contributions	1,653.00	
06/23/23	EFT	emp002	Employee IRA Contributions	2018-101-000	Employee IRA Contributions	857.00	
					<b>Payroll/Benefits:</b>	<b><u>\$108,447.27</u></b>	
		<b>Total</b>		<b>Accounts Payable/Payroll/Benefits:</b>		<b><u>\$491,047.29</u></b>	






**Summary of Professional Engineering Services During the Period  
May 20, 2023 through June 9, 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	\$35,453.43	\$51,546.57	\$4,994.00	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$703.00	\$1,297.00	\$703.00	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	\$26,894.00	\$43,106.00	\$4,534.50	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
Kohiman Creek flood damage reduction feasibility study	\$75,000.00	\$24,890.51	\$50,109.49	\$3,056.00	4129-101	DW-9, KC-2, BELT-3
Kohiman 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	\$3,886.00	\$36,114.00	\$1,803.50	4129-101	DW-9, BELT-3
Resiliency Study for non-Beltline tributary areas (pre-planning study and evaluation of existing data)	\$150,000.00	\$33,593.00	\$116,407.00	\$3,116.50	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	\$21,057.87	\$8,942.13	\$1,774.00	4129-101	GC-3
Street Sweeping	\$20,000.00	\$11,416.50	\$8,583.50	\$458.50	4129-101	DW-6, DW-15
Retrofit Inventory	\$20,000.00	\$9,631.00	\$10,369.00	\$3,486.50	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	\$184.00	4520-101	DW-2
Special Project BMP Monitoring	\$25,000.00	\$7,149.06	\$17,850.94	\$2,523.56	4520-101	DW-12
Grass Lake Berm Wetland Monitoring	\$12,000.00	\$11,885.00	\$115.00	\$1,045.00	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	\$20,914.00	\$38,086.00	\$1,967.00	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	\$389.00	\$11,611.00	\$0.00	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	\$6,104.00	\$8,896.00	\$987.50	4695-101	DW-12
Kohiman Permeable Weir Test System - Implement Monitoring Plan	\$5,000.00	\$150.00	\$4,850.00	\$0.00	4695-101	DW-12
Kohiman Lake Aquatic Plant Management Effects Study	\$85,705.00	\$23,664.31	\$62,040.69	\$7,826.50	4695-101	DW-12
Shallow Lake Aeration Study	\$40,000.00	\$5,904.38	\$34,095.62	\$587.00	4695-101	DW-12
<b>Project Operations</b>						
2023 Tanners Alum Facility Monitoring	\$17,000.00	\$6,315.00	\$10,685.00	\$3,570.00	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	\$26,794.50	\$153,205.50	\$2,584.00	4128-518	DW-6
Roosevelt Homes	\$77,100.00	\$14,738.50	\$62,361.50	\$6,758.500	4128-518	DW-6
Targeted Retrofit Projects 2023	\$150,000.00	\$33,034.81	\$116,965.19	\$1,475.00	4128-518	DW-6
Stewardship Grant Program	\$75,000.00	\$16,103.50	\$58,896.50	\$1,221.00	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	\$149,001.52	\$10,998.48	\$3,194.00	4128-518	LE-3
Pioneer Park Stormwater Reuse	\$151,200.00	\$70,102.04	\$81,097.96	\$11,573.00	4128-518	DW-6
Double Driveway and Fish Creek Tributary Improvements	\$112,200.00	\$35,111.99	\$77,088.01	\$2,470.00	4129-537	FC-2
<b>CIP Project Repair &amp; Maintenance</b>						
Routine CIP Inspection and Unplanned Maintenance Identification	\$125,000.00	\$53,430.04	\$71,569.96	\$3,883.84	4128-516	DW-5
Beltline 5-year Inspection	\$15,000.00	\$15,031.00	-\$31.00	\$2,136.00	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	\$82,324.08	\$82,675.92	\$14,599.18	4128-516	DW-5

Barr declares under the penalties of Law that this Account, **\$92,511.58**  
Claim, or Demand is just and that no part has been paid.

  
Bradley J. Lindaman, Vice President

**2023 Capital Improvement Project (CIP) Progress Payment Number 4\_Final**

1.0	Total Completed Through This Period:	<u>\$580,628.05</u>		
2.0	Total Completed Previously Completed:		<u>\$472,384.39</u>	
3.0	Total Completed This Period:			<u>\$108,243.66</u>
4.0	Amount Previously Retained:		<u>\$23,619.22</u>	
5.0	Amount Retained This Period:			<u>\$0.00</u>
6.0	Total Amount Retained:		<u>\$23,619.22</u>	
7.0	Retainage Released Through This Period:			<u>\$23,619.22</u>
8.0	Total Retainage Remaining:		<u>\$0.00</u>	
9.0	Amounts Previously Paid:	<u>\$448,765.17</u>		
10.0	Amount Due This Estimate:			<u><u>\$131,862.88</u></u>

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

SUBMITTED BY:

Name: Steve St. Claire Date: \_\_\_\_\_  
Title: President  
Contractor: Miller Excavating, Inc.

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

RECOMMENDED BY:

Name: Brad Lindaman Date: \_\_\_\_\_  
Title: District Engineer  
Engineer: Barr Engineering Company

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

APPROVED BY:

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

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

**2023 Capital Improvement Project (CIP)**  
**Ramsey-Washington Metro Watershed District**  
**Summary of Work Completed Through June 13, 2023 for Progress Payment Number 4\_Final**

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
General											
A	Mobilization/Demobilization	L.S.	1	\$32,668.83	\$32,668.83	1.00	\$32,668.83	0.90	\$29,401.95	0.10	\$3,266.88
B	Control of Water	L.S.	1	\$11,998.46	\$11,998.46	1.00	\$11,998.46	0.90	\$10,798.61	0.10	\$1,199.85
C	Traffic Control	L.S.	1	\$5,833.16	\$5,833.16	1.00	\$5,833.16	0.90	\$5,249.84	0.10	\$583.32
Site 1 - Tamarack Swamp, Woodbury (PFS Basins Cleaning/Sweeping)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	92	\$141.58	\$13,025.36	51	\$7,220.58	0	\$0.00	51	\$7,220.58
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	100	\$9.68	\$968.00	65	\$629.20	65	\$629.20	0	\$0.00
F	Sediment Log (9-Inch Diameter)	L.F.	60	\$6.61	\$396.60	40	\$264.40	40	\$264.40	0	\$0.00
G	Paver Sweeping	S.Y.	1,400	\$3.34	\$4,676.00	1,400	\$4,676.00	1,400	\$4,676.00	0	\$0.00
Site 2 - Tanners Wetland, Oakdale (Wetland Weir Maintenance)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	250	\$136.94	\$34,235.00	324	\$44,427.44	324	\$44,427.44	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	210	\$13.32	\$2,797.20	64	\$852.48	64	\$852.48	0	\$0.00
J	Permeable Weir Maintenance (Reopening Drainage Slots and Remove all Brush and Debris)	L.F.	580	\$14.04	\$8,143.20	580	\$8,143.20	580	\$8,143.20	0	\$0.00
M	Construction Entrance	Each	1	\$1,316.48	\$1,316.48	1	\$1,316.48	1	\$1,316.48	0	\$0.00
Site 3 - 5th Street Wetland, Oakdale (Wetland Weir Maintenance)											
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	210	\$13.32	\$2,797.20	1,213	\$16,157.16	1,213	\$16,157.16	0	\$0.00
J	Permeable Weir Maintenance (Reopening Drainage Slots and Remove all Brush and Debris)	L.F.	65	\$37.72	\$2,451.80	65	\$2,451.80	65	\$2,451.80	0	\$0.00
W	Sediment/Muck Cleanout Excavation with On-Site Disposal	L.S.	1	\$6,213.07	\$6,213.07	1	\$6,213.07	1	\$6,213.07	0	\$0.00
Site 4 - Gervais Mill Park, Little Canada (Mill Pond Filter Maintenance)											
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	400	\$9.69	\$3,876.00	60	\$581.40	0	\$0.00	60	\$581.40
H	Remove Existing 1 ½" to 2" Filter Rock	L.S.	1	\$2,470.52	\$2,470.52	1	\$2,470.52	1	\$2,470.52	0	\$0.00
I	Clear Washed Filter Rock	Ton	50	\$89.51	\$4,475.50	77	\$6,892.27	77	\$6,892.27	0	\$0.00
L	Flotation Silt Curtain	L.F.	45	\$33.84	\$1,522.80	50	\$1,692.00	50	\$1,692.00	0	\$0.00
O	Composite Mud Mats	S.Y.	100	\$47.24	\$4,724.00	114	\$5,385.36	114	\$5,385.36	0	\$0.00
Site 4 - Gervais Mill Park, Little Canada (Steep Slope Repair)											
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	150	\$23.83	\$3,574.50	26	\$619.58	0	\$0.00	26	\$619.58
F	Sediment Log (9-Inch Diameter)	L.F.	40	\$13.51	\$540.40	40	\$540.40	40	\$540.40	0	\$0.00
M	Construction Entrance	Each	1	\$1,316.48	\$1,316.48	0	\$0.00	0	\$0.00	0	\$0.00
P	Clearing and Grubbing	L.S.	1	\$2,767.48	\$2,767.48	1	\$2,767.48	0	\$0.00	1	\$2,767.48
V	Repair Slope with Imported Soils and Grading	L.S.	1	\$8,277.21	\$8,277.21	1	\$8,277.21	1	\$8,277.21	0	\$0.00
X	Pressure Clean Drainage Pipe System	L.S.	1	\$2,987.71	\$2,987.71	0	\$0.00	0	\$0.00	0	\$0.00
Y	Furnish and Install Cone Grate	Each	2	\$285.91	\$571.82	2	\$571.82	2	\$571.82	0	\$0.00
Z	MN/DOT Class II Riprap (Field Stone) with Geotextile Filter Fabric	Ton	30.0	\$99.69	\$2,990.70	34.1	\$3,399.43	34.1	\$3,399.43	0.0	\$0.00

**2023 Capital Improvement Project (CIP)**  
**Ramsey-Washington Metro Watershed District**  
**Summary of Work Completed Through June 13, 2023 for Progress Payment Number 4\_Final**

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
Site 5 - Lower Afton Road, Maplewood (Drainageway Sediment Removal)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	127	\$109.70	\$13,931.90	133	\$14,555.00	133	\$14,555.00	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	210	\$9.28	\$1,948.80	64	\$593.92	64	\$593.92	0	\$0.00
M	Construction Entrance	Each	1	\$1,316.48	\$1,316.48	0	\$0.00	0	\$0.00	0	\$0.00
N	Temporary Rock Filter Dike	Ton	10	\$125.18	\$1,251.80	0	\$0.00	0	\$0.00	0	\$0.00
O	Composite Mud Mats	S.Y.	45	\$44.39	\$1,997.55	280	\$12,429.20	280	\$12,429.20	0	\$0.00
Z	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	21.0	\$89.03	\$1,869.63	19.8	\$1,762.79	19.8	\$1,762.79	0.0	\$0.00
Z	MN/DOT Class IV Riprap (Field Stone) with Geotextile Filter Fabric	Ton	17.0	\$86.19	\$1,465.23	20.8	\$1,792.75	20.8	\$1,792.75	0.0	\$0.00
Site 6 - Kohlman Basin, Maplewood (Weirs Upflow Treatment System)											
L	Flotation Silt Curtain	L.F.	110	\$24.49	\$2,693.90	450	\$11,020.50	0	\$0.00	450	\$11,020.50
M	Construction Entrance	Each	1	\$1,316.48	\$1,316.48	1	\$1,316.48	0	\$0.00	1	\$1,316.48
R	Silt Fence	L.F.	150	\$10.93	\$1,639.50	0	\$0.00	0	\$0.00	0	\$0.00
S	Removal and Disposal of Existing Materials to Construct Upflow Treatment System Complete	L.S.	1	\$4,024.26	\$4,024.26	1	\$4,024.26	0	\$0.00	1	\$4,024.26
T	Construct Upflow Treatment System Complete	L.S.	1	\$67,698.10	\$67,698.10	1	\$67,698.10	0	\$0.00	1	\$67,698.10
Site 7 - Gervais County Park, Little Canada (Wetland Sediment Removal)											
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	540	\$5.91	\$3,191.40	368	\$2,174.88	368	\$2,174.88	0	\$0.00
F	Sediment Log (9-Inch Diameter)	L.F.	300	\$11.98	\$3,594.00	0	\$0.00	0	\$0.00	0	\$0.00
M	Construction Entrance	Each	1	\$1,316.48	\$1,316.48	1	\$1,316.48	1	\$1,316.48	0	\$0.00
O	Composite Mud Mats	S.Y.	30	\$48.47	\$1,454.10	201	\$9,742.47	201	\$9,742.47	0	\$0.00
P	Clearing and Grubbing	L.S.	1	\$3,084.66	\$3,084.66	1	\$3,084.66	1	\$3,084.66	0	\$0.00
U	Trench Excavation and Compacted Clay Fill (P)	C.Y.	38	\$266.05	\$10,109.90	38	\$10,109.90	38	\$10,109.90	0	\$0.00
Site 8 - Woodwinds Drive, Woodbury (SC846 and SC847)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	370	\$68.39	\$25,304.30	400	\$27,356.00	400	\$27,356.00	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	170	\$16.17	\$2,748.90	462	\$7,470.54	462	\$7,470.54	0	\$0.00
K	Remove Select Tree	Each	2	\$1,233.44	\$2,466.88	3	\$3,700.32	3	\$3,700.32	0	\$0.00
L	Flotation Silt Curtain	L.F.	110	\$14.58	\$1,603.80	0	\$0.00	0	\$0.00	0	\$0.00
O	Composite Mud Mats	S.Y.	30	\$48.47	\$1,454.10	60	\$2,908.20	60	\$2,908.20	0	\$0.00
Z	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	20.0	\$90.68	\$1,813.60	18.0	\$1,632.24	18.0	\$1,632.24	0.0	\$0.00
AA	Inlet Protection	Each	2	\$146.31	\$292.62	1	\$146.31	1	\$146.31	0	\$0.00
Site 8 - Woodwinds Drive, Woodbury (SC190)											
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	85	\$21.17	\$1,799.45	171	\$3,620.07	171	\$3,620.07	0	\$0.00
K	Remove Select Tree	Each	2	\$1,233.44	\$2,466.88	2	\$2,466.88	2	\$2,466.88	0	\$0.00
L	Flotation Silt Curtain	L.F.	100	\$15.08	\$1,508.00	0	\$0.00	0	\$0.00	0	\$0.00
O	Composite Mud Mats	S.Y.	30	\$48.47	\$1,454.10	30	\$1,454.10	30	\$1,454.10	0	\$0.00
Q	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Unregulated Material (SRV Level 1) (P)	C.Y.	65	\$53.70	\$3,490.50	115	\$6,175.50	115	\$6,175.50	0	\$0.00
Z	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	10.0	\$76.34	\$763.40	12.2	\$931.35	12.2	\$931.35	0.0	\$0.00
AA	Inlet Protection	Each	2	\$112.37	\$224.74	1	\$112.37	1	\$112.37	0	\$0.00

**2023 Capital Improvement Project (CIP)**  
**Ramsey-Washington Metro Watershed District**  
**Summary of Work Completed Through June 13, 2023 for Progress Payment Number 4\_Final**

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
Site 9 - Century Ave. South, Woodbury (SC275)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	400	\$70.88	\$28,352.00	446	\$31,612.48	446	\$31,612.48	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	170	\$16.17	\$2,748.90	690	\$11,157.30	690	\$11,157.30	0	\$0.00
F	Sediment Log (9-Inch Diameter)	L.F.	20	\$11.34	\$226.80	0	\$0.00	0	\$0.00	0	\$0.00
K	Remove Select Tree	Each	2	\$1,193.99	\$2,387.98	2	\$2,387.98	2	\$2,387.98	0	\$0.00
L	Flotation Silt Curtain	L.F.	70	\$17.41	\$1,218.70	0	\$0.00	0	\$0.00	0	\$0.00
O	Composite Mud Mats	S.Y.	30	\$48.47	\$1,454.10	30	\$1,454.10	30	\$1,454.10	0	\$0.00
P	Clearing and Grubbing	L.S.	1	\$3,700.33	\$3,700.33	1	\$3,700.33	1	\$3,700.33	0	\$0.00
Z	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	30.0	\$101.37	\$3,041.10	17.0	\$1,723.29	17.0	\$1,723.29	0.0	\$0.00
Site 10 - Aspen Circle, Little Canada (Aspen Pond)											
D	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of Regulated Material (SRV Level 2 and 3)	Ton	1770	\$71.50	\$126,555.00	1,842	\$131,703.00	1,842	\$131,703.00	0	\$0.00
E	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	300	\$12.51	\$3,753.00	300	\$3,753.00	300	\$3,753.00	0	\$0.00
N	Temporary Rock Filter Dike	Ton	10	\$114.21	\$1,142.10	0	\$0.00	0	\$0.00	0	\$0.00
O	Composite Mud Mats	S.Y.	30	\$48.47	\$1,454.10	30	\$1,454.10	30	\$1,454.10	0	\$0.00
Z	MN/DOT Class III Riprap (Field Stone) with Geotextile Filter Fabric	Ton	30.0	\$89.61	\$2,688.30	18.5	\$1,657.79	18.5	\$1,657.79	0.0	\$0.00
					Contract Base Extensions =	\$517,633.33	\$566,248.37	\$465,949.94	\$100,298.43		
Change Order 1											
C.O.1.A	Site 10 Storm Pipe Extension	L.S.	1	\$4,247.45	\$4,247.45	1	\$4,247.45	1	\$4,247.45	0	\$0.00
C.O.1.B	Sediment Log (6-Inch Diameter)	L.F.	243	\$9.00	\$2,187.00	243	\$2,187.00	243	\$2,187.00	0	\$0.00
Change Order 2											
C.O.2.A	Site 1 - Clear Washed Filter Rock	Ton	5	\$89.51	\$447.55	5	\$447.55	0	\$0.00	5	\$447.55
C.O.2.B	Site 4 - Composite Mud Mats	L.F.	107	\$48.47	\$5,186.29	107	\$5,186.29	0	\$0.00	107	\$5,186.29
C.O.2.C	Site 6 - Furnish and Install 2"x 12"x 4' Treated Boards	L.S.	1	\$2,311.39	\$2,311.39	1	\$2,311.39	0	\$0.00	1	\$2,311.39
					Change Order Extensions =	\$14,379.68	\$14,379.68	\$6,434.45	\$7,945.23		
					Contract Grand Total =	\$532,013.01	\$580,628.05	\$472,384.39	\$108,243.66		

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

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

Page: 1  
June 15, 2023  
File No: 9M

General Account

Balance

\$1,354.60

# Permit Application Coversheet

Date June 28, 2023

Project Name Gramsie Junction

Project Number 23-18

Applicant Name Paul Shreier, Tyme Properties, LLC

Type of Development Residential

## Property Description

This project is located at the intersection of Gramsie Road and Hodgson Road in the City of Shoreview. The applicant is proposing to construct 21 townhome units and a 63-unit apartment building with associated parking. The total site area is 5.6 acres. An infiltration surface bench is being proposed to meet stormwater treatment requirements. Pretreatment will include a wet detention pond and skimming device. A Wetland Conservation Act (WCA) 'no wetland determination' was approved on 10/15/22 (#22-14 WCA).

## Watershed District Policies or Standards Involved:

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

## Water Quantity Considerations

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

## Water Quality Considerations

### *Short Term*

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

### *Long Term*

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

## Staff Recommendation

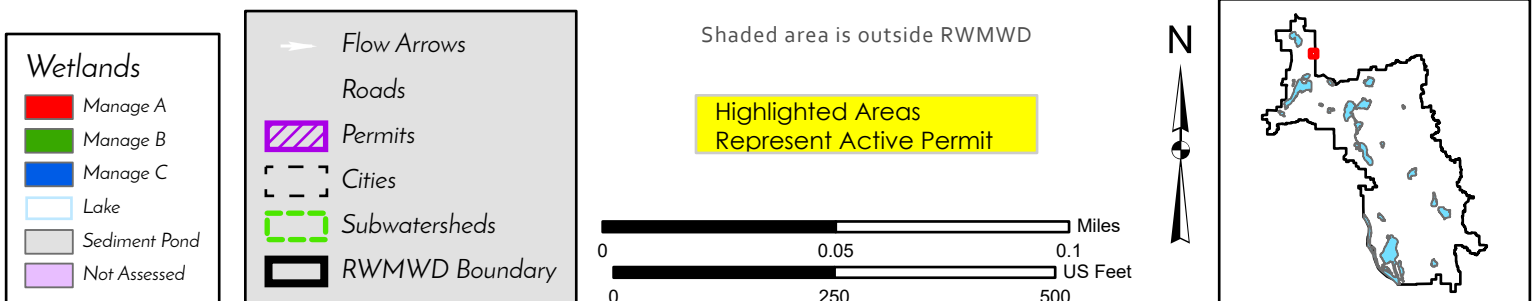
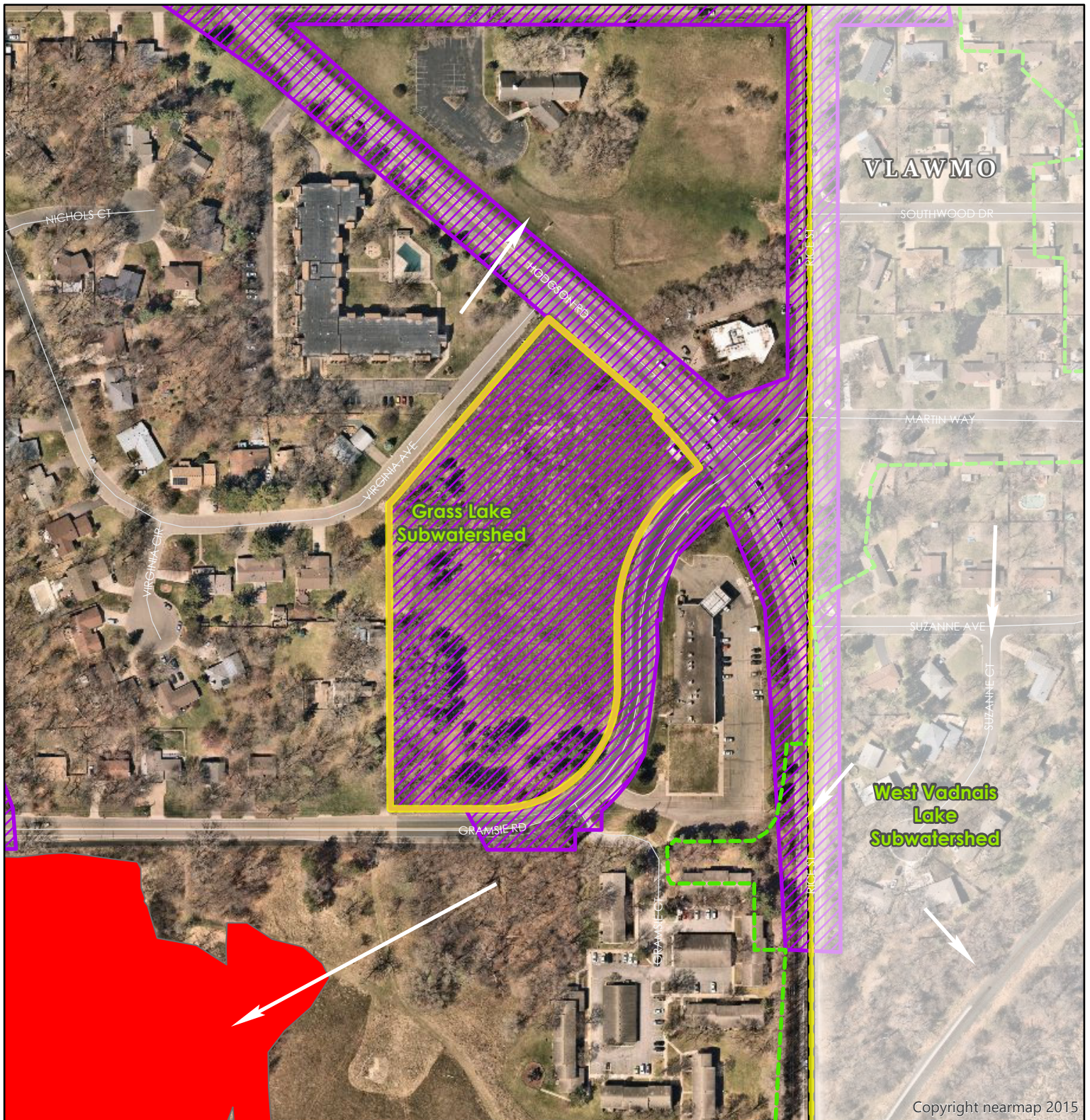
Staff recommends approval of this permit with the special provisions.

## Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan



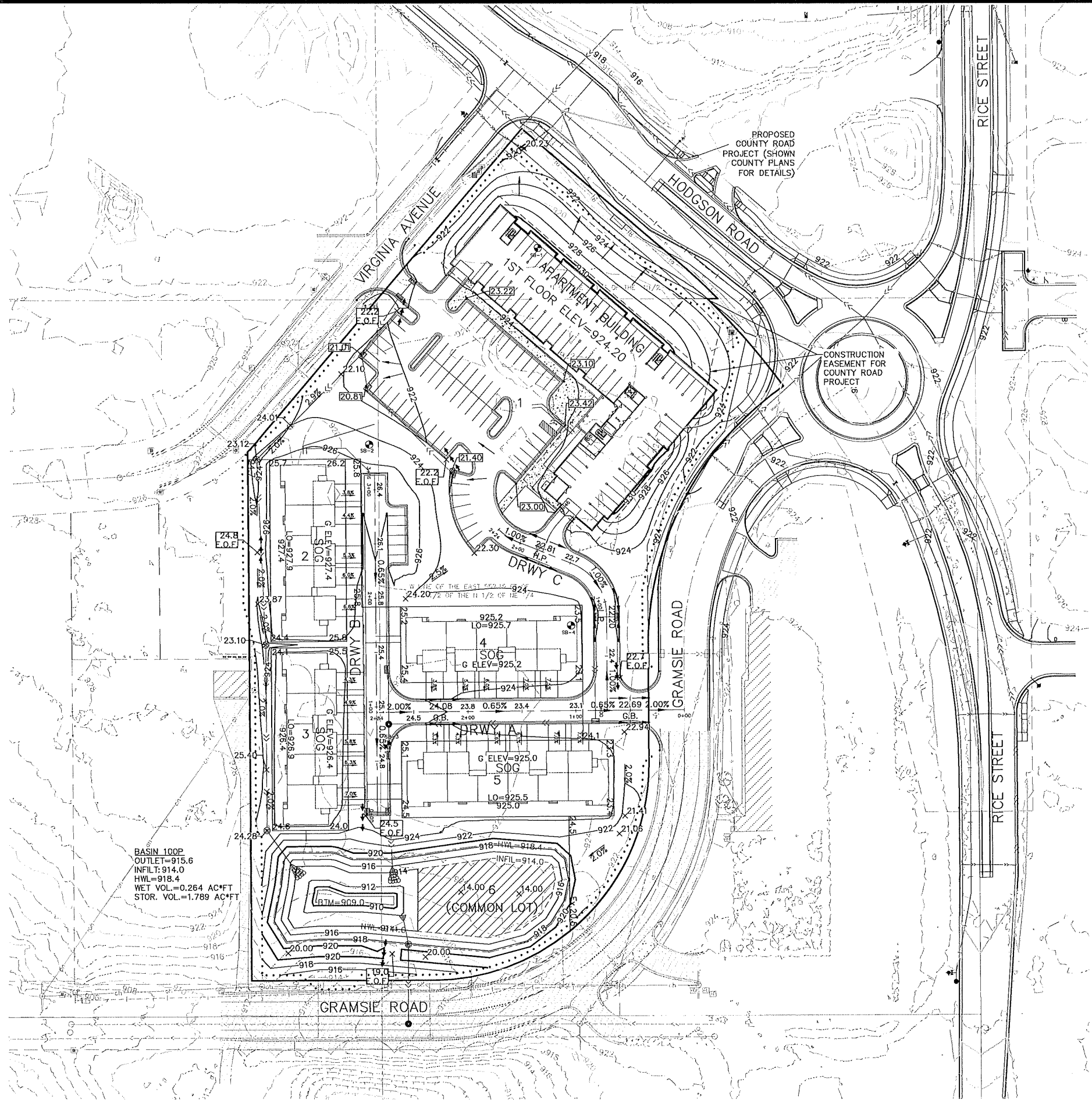
# #23-18 Gramsie Junction





### Special Provisions

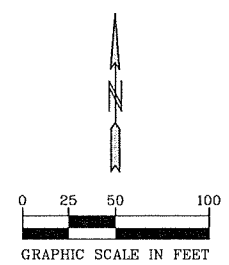
1. The applicant shall submit the escrow fee of \$28,000.
2. The applicant shall add notes to the plans:
  - A. Notify Nicole Maras, Ramsey-Washington Metro Watershed District, at 651-792-7976 prior to beginning construction activity to schedule an initial erosion control walk-through.
  - B. Notify Nicole Maras, Ramsey-Washington Metro Watershed District, at 651-792-7976 at least 48 hours prior to construction of the infiltration area.
  - C. The specified erosion and sediment control practices are the minimum. Additional practices may be required during the course of construction.
3. The applicant shall submit the final, signed plans set.
4. The applicant shall submit an executed stormwater maintenance agreement.
5. The applicant shall submit a site-specific BMP Operations & Maintenance Plan.
6. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
7. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.



STORMWATER SETBACKS:  
LF=100 YR HWL + 2'  
LF=EOF + 1'  
LO = 100 YR HWL + 2'  
LO = EOF + 1'

LANDLOCKED BASINS:  
LF=100 YR HWL + 5'

BASIN 100P  
OUTLET=915.6  
INFIL: 914.0  
HWL=918.4  
WET VOL.=0.264 AC\*FT  
STOR. VOL.=1.789 AC\*FT



BENCH MARK  
TOP NUT OF HYDRANT ON  
WEST QUAD OF VIRGINIA  
AVE. & HODGSON ROAD  
ELEV= 921.48 (NAVD88)

**PIONEER**engineering  
CIVIL ENGINEERS LAND PLANNERS LAND SURVEYORS LANDSCAPE ARCHITECTS

2422 Enterprise Drive  
Mendota Heights, MN 55120  
(651) 681-1914  
Fax: 681-9488  
www.pioneereng.com

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  
Name: *Paul J. Chene*  
Reg. No. 19860 Date 04-28-2023

Revisions

Date 04-28-2023  
Designed PJC/BNM  
Drawn PDS

PRELIMINARY GRADING PLAN

TYME PROPERTIES, LLC  
3435 LABORE ROAD SUITE 150  
VADNAIS HEIGHTS, MINNESOTA 55110

GRAMSIE JUNCTION  
SHOREVIEW, MINNESOTA

5.01 OF 21

## Minnesota Wetland Conservation Act Notice of Decision

<b>Local Government Unit:</b> Ramsey-Washington Metro Watershed District (RWMWD) <b>County:</b> Ramsey	
<b>Applicant Name:</b> Paul Schreier (Tyme Properties, LLC) <b>Applicant Representative:</b> Ken Arndt (Midwest Natural Resources, Inc.)	
<b>Project Name:</b> Tyme Properties Gramsie Rd	<b>LGU Project No. (if any):</b> 22-14 WCA
<b>Date Complete Application Received by LGU:</b> 9/15/2022	
<b>Date of LGU Decision:</b> 10/11/2022	
<b>Date this Notice was Sent:</b> 10/15/2022	

**WCA Decision Type - check all that apply**

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

**Replacement Plan Impacts (replacement plan decisions only)**

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

**Technical Evaluation Panel Findings and Recommendations (attach if any)**

<input type="checkbox"/> Approve <input type="checkbox"/> Approve w/Conditions <input type="checkbox"/> Deny <input checked="" type="checkbox"/> No TEP Recommendation
------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**LGU Decision**

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

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

**LGU Findings – Attach document(s) and/or insert narrative providing the basis for the LGU decision<sup>1</sup>.**

<input type="checkbox"/> Attachment(s) (specify): <input checked="" type="checkbox"/> Summary: <b>Nicole Soderholm (RWMWD- LGU) completed a field review of the site on 10/3/22 and found the submitted report to be accurate in that there are no wetlands located onsite.</b>
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<sup>1</sup> *Findings must consider any TEP recommendations.*

**Attached Project Documents**

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

**Appeals of LGU Decisions**

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

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

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

☐ Yes<sup>1</sup>        ☒ No

<sup>1</sup>If yes, all appeals must first be considered via the local appeals process.

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

--

**Notice Distribution (include name)**

*Required on all notices:*

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

*Optional or As Applicable:*

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

<b>Signature:</b> <i>Nicole Soderholm</i>	<b>Date:</b> 10/15/2022
----------------------------------------------	----------------------------

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

# Permit Application Coversheet

Date June 28, 2023

Project Name Battle Creek Middle School Stormwater Retrof Project Number 23-19

Applicant Name Michelle Bergman-Aho, Saint Paul Public Schools

Type of Development Park/Green Space/BMP

## Property Description

This project is located at the existing Battle Creek Middle School, north of Battle Creek in the City of St. Paul. The applicant is proposing to improve drainage on the property including a swale, biofiltration basin, and native vegetation. The total site area is 2 acres. There is no proposed impervious area, thus permanent stormwater treatment requirements do not apply. The project is associated with a RWMWD stewardship grant approved in March 2022 (#22-08 CS).

## Watershed District Policies or Standards Involved:

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

## 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

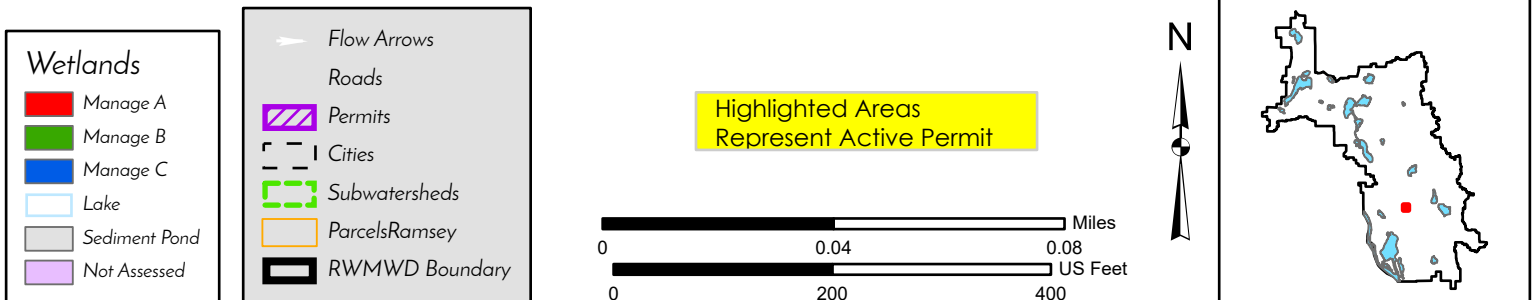
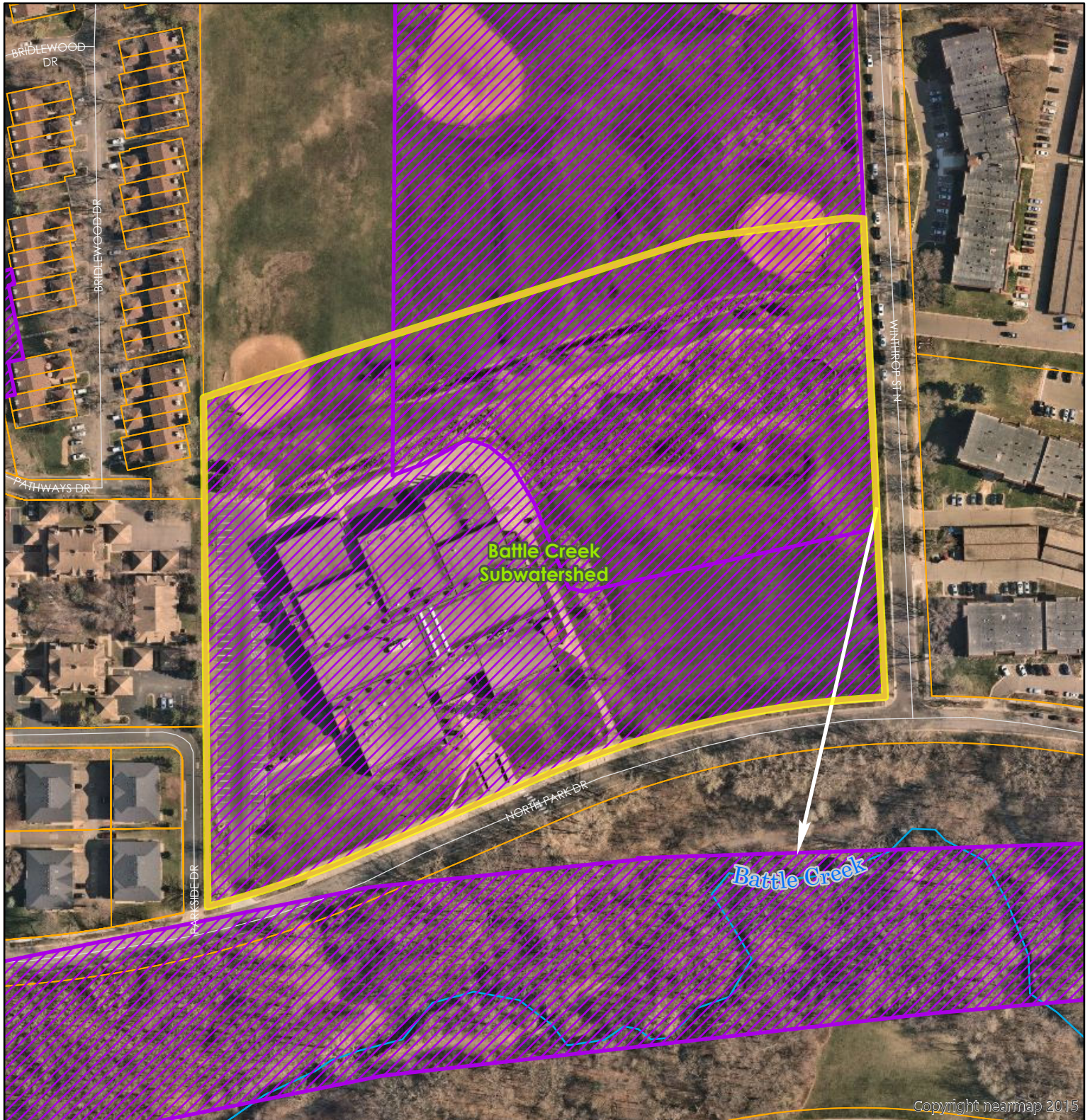
Staff recommends approval of this permit with the special provisions.

## Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan



# #23-19 Battle Creek Middle School Stormwater Retrofit





23-19

### Special Provisions

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



K:\022121-000\022121-000-C-GRAD-PLAN.dwg 5/24/2023 1:54:49 PM

#### GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION  
"STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" SHALL GOVERN.

LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC  
CONTROL DEVICES (MMUTCD)

LATEST EDITION OF THE CITY OF ST. PAUL STANDARD SPECIFICATIONS FOR  
CONSTRUCTION AND/OR APPLICABLE CITY ORDINANCES

LATEST EDITION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA  
(CEAM) STANDARD UTILITIES SPECIFICATIONS FOR SEWER INSTALLATIONS

#### NOTES

ALL DISTURBED TURF MUST BE REPAIRED BY CONTRACTOR. PLACE  
4-INCHES OF TOPSOIL OVER AREAS TO BE SEEDED.

STABILIZATION OF MOWED GREEN SPACES SHALL BE AS FOLLOWS -  
TEMPORARY: STABILIZED FIBER MATRIX @ 3,000 LBS/ACRE  
PERMANENT: MNDOT SEED MIX 25-131 @ 220 LBS/ACRE,  
HYDRAULIC STABILIZED FIBER MATRIX AT 3,000 LBS/ACRE

STABILIZATION OF SWALE AND BASIN SPACES SHALL BE AS FOLLOWS -  
TEMPORARY: STABILIZED FIBER MATRIX @ 3,000 LBS/ACRE  
PERMANENT: MNDOT SEED MIX 33-262 @ 35 LBS/ACRE,  
HYDRAULIC STABILIZED FIBER MATRIX AT 3,000 LBS/ACRE

MATCH EXISTING GRADING PATTERNS AND ELEVATIONS, UNLESS  
DIRECTED BY THE ENGINEER.

#### NOTES

SEWER REPAIR PERMIT: PLUMBING CONTRACTOR TO OBTAIN REPAIR PERMITS FROM PUBLIC  
WORKS FOR PROPOSED MODIFICATION TO THE EXISTING STORM SEWER CONNECTIONS.  
CALL ST. PAUL PUBLIC WORKS PERMIT DESK (651-266-6234) FOR INFORMATION ON OBTAINING  
THIS PERMIT.

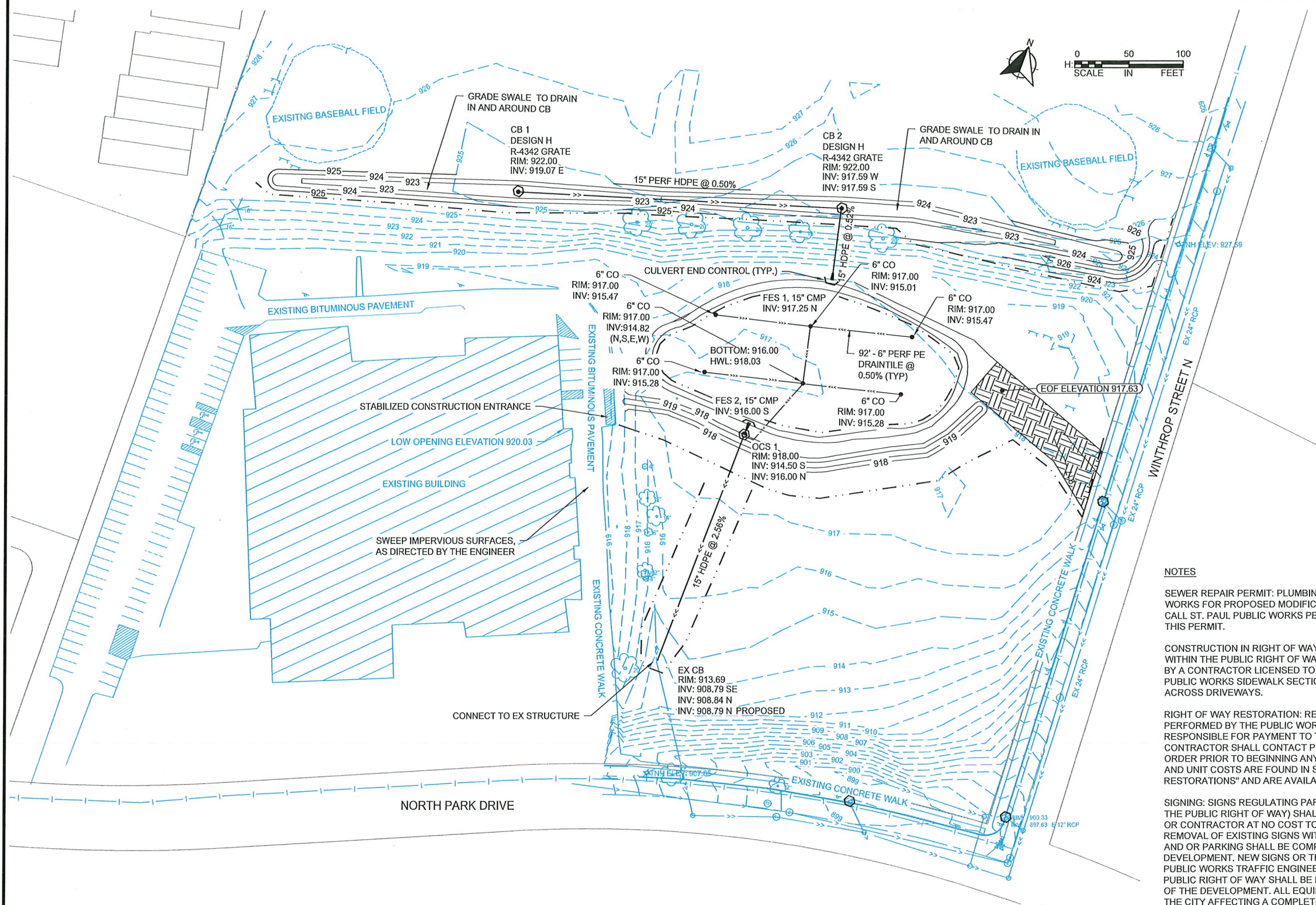
CONSTRUCTION IN RIGHT OF WAY: ALL WORK ON CURBS, DRIVEWAYS, AND SIDEWALKS  
WITHIN THE PUBLIC RIGHT OF WAY MUST BE DONE TO CITY STANDARDS AND SPECIFICATIONS  
BY A CONTRACTOR LICENSED TO WORK IN THE CITY RIGHT-OF-WAY UNDER A PERMIT FROM  
PUBLIC WORKS SIDEWALK SECTION (651-266-6120). SIDEWALK GRADES MUST BE CARRIED  
ACROSS DRIVEWAYS.

RIGHT OF WAY RESTORATION: RESTORATION OF ASPHALT AND CONCRETE PAVEMENTS ARE  
PERFORMED BY THE PUBLIC WORKS STREET MAINTENANCE DIVISION. THE CONTRACTOR IS  
RESPONSIBLE FOR PAYMENT TO THE CITY FOR THE COST OF THESE RESTORATIONS. THE  
CONTRACTOR SHALL CONTACT PUBLIC WORKS STREET MAINTENANCE TO SET UP WORK  
ORDER PRIOR TO BEGINNING ANY REMOVALS IN THE STREET AT (651-266-9700). PROCEDURES  
AND UNIT COSTS ARE FOUND IN STREET MAINTENANCE'S "GENERAL REQUIREMENTS - ALL  
RESTORATIONS" AND ARE AVAILABLE AT THE PERMIT OFFICE.

SIGNING: SIGNS REGULATING PARKING AND/OR TRAFFIC ON PRIVATE PROPERTY (OUTSIDE OF  
THE PUBLIC RIGHT OF WAY) SHALL BE FURNISHED AND INSTALLED BY THE PROPERTY OWNER  
OR CONTRACTOR AT NO COST TO THE CITY OF ST. PAUL DEPARTMENT OF PUBLIC WORKS.  
REMOVAL OF EXISTING SIGNS WITHIN THE PUBLIC RIGHT OF WAY THE REGULATE TRAFFIC  
AND OR PARKING SHALL BE COMPLETED BY THE CITY AT THE EXPENSE OF THE  
DEVELOPMENT. NEW SIGNS OR THE REINSTALLATION OF EXISTING SIGNS, AS APPROVED BY  
PUBLIC WORKS TRAFFIC ENGINEERING, REGULATING PARKING AND/OR TRAFFIC IN THE  
PUBLIC RIGHT OF WAY SHALL BE FURNISHED AND INSTALLED BY THE CITY AT THE EXPENSE  
OF THE DEVELOPMENT. ALL EQUIPMENT, MATERIALS, AND LABOR COSTS ASSOCIATED WITH  
THE CITY AFFECTING A COMPLETE SIGN INSTALLATION SHALL BE THE RESPONSIBILITY OF  
THE DEVELOPMENT. CONTACT CHRIS GULDEN OF PUBLIC WORKS (651-266-9778) TWO WEEKS  
IN ADVANCE OF NEEDED SIGN WORK.

STRIPING: STRIPING RESTORATION SHALL BE COMPLETED IMMEDIATELY FOLLOWING FINAL  
PAVEMENT RESTORATION. ROADWAY STRIPING IMPACTED BY THE WORK ZONE SHALL BE  
REPLACED IN KIND AT NO COST TO THE ROAD AUTHORITY. IF THERE ARE QUESTIONS AS TO  
THE TYPE OF STRIPING MATERIAL TO BE USED CONTACT CHRIS GULDEN (651-266-9778) IN THE  
CITY'S TRAFFIC OPERATIONS SECTION. IF THERE IS A DESIRE FOR THE CITY OF ST. PAUL  
PUBLIC WORKS DEPARTMENT TO COMPLETE PAVEMENT MARKING RESTORATION WORK  
CONTACT CHRIS GULDEN OF PUBLIC WORKS TRAFFIC OPERATIONS FOR AN ESTIMATE. AT A  
MINIMUM, TWO WEEKS ADVANCE NOTICE SHALL BE PROVIDED FOR ANY STRIPING WORK  
REQUEST. IF ADVANCE NOTICE IS NOT PROVIDED ANY ASSOCIATED PROJECT DELAYS AND  
COSTS INCURRED RESULTING FROM SAID DELAYS, SHALL BE THE SOLE RESPONSIBILITY OF  
THE CONTRACTOR.

STREET SWEEPING: STREET SWEEPING IS AN IMPORTANT TEMPORARY EROSION CONTROL  
BEST MANAGEMENT PRACTICE AND SHALL BE PERFORMED WITH THE USE OF WATER. DRY  
SWEEPING IS PROHIBITED. ADDITIONALLY, TRUCKS HAULING IN AND OUT OF THE SITE, FOR  
ANY ACTIVITY INCLUDING BUT NOT LIMITED TO PAVING, EXCAVATION, ETC., NEEDS TO  
ENSURE CLEAN MUD FLAPS TO AVOID ANY BUILDUP ON THE STREET PAVEMENT.



#### LEGEND

---	APPROX. CONSTRUCTION LIMITS
---	PROPERTY LINE
---	EXISTING CONTOUR (MAJOR)
---	EXISTING CONTOUR (MINOR)
---	PROPOSED CONTOUR (MAJOR)
---	PROPOSED CONTOUR (MINOR)
---	EXISTING SANITARY SEWER MAIN
---	EXISTING SANITARY STRUCTURE
---	EXISTING STORM SEWER PIPE
---	EXISTING STORM STRUCTURE
---	PROPOSED STORM SEWER PIPE
---	PROPOSED DRAINAGE STRUCTURE
---	PROPOSED DRAINTILE
---	EXISTING FENCE
---	PROPOSED SPOT ELEVATION
---	EXISTING SPOT ELEVATION
---	INLET PROTECTION
---	RIP RAP
---	BIOROLL TYPE WOOD FIBER
---	TURF REINFORCEMENT MAT
---	STABILIZED CONSTRUCTION ENTRANCE

SCALE: AS SHOWN  
DESIGN BY: IKE  
PLAN BY: CHECK BY: JLS  
IKE

REVISIONS	
NO.	DESCRIPTION

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

JAMES L. STREMLER  
DATE: 05/23/2023 LIC. NO.: 45762

#### SITE & GRADING PLAN

#### BATTLE CREEK MIDDLE STORMWATER RETROFIT ST. PAUL PUBLIC SCHOOLS

WSB PROJECT NO.  
022121-000

SHEET

3 OF 5



## Stewardship Grant Application Summary

**Project Name:** Battle Creek Middle School

**Application Number:** 22-08 CS

**Board Meeting Date:** 3/2/2022

**Applicant Name:** Jens Kvaal

**Residential** ☐

**Commercial/Government** ☒

### Project Overview:

This project is located off Winthrop St N and N Park Dr in the City of St. Paul. The applicant proposes installing a filtration basin and a large native planting area to help alleviate drainage problems at the site. They are also proposing to include an environmental learning area for the students and the surrounding community. Battle Creek Middle School takes pride in serving a very diverse population, including 45% English language learners and 89% students of color, and considers this project a significant improvement to the neighborhood. The applicant plans to hire a contractor to perform maintenance the first two years after installation and will then work with RWMWD staff to help coordinate ongoing maintenance, including student and volunteer activities.

This project is eligible for 100% funding up to \$100,000. The total project cost is about \$263,000.

### BMP type(s):

Filtration Basin(1)

### Grant Request:

\$100,000.00

### Recommendation:

Staff recommends approval of this application.

### Subwatershed:

Battle Creek

### Location Maps:

# Permit Application Coversheet

Date June 28, 2023

Project Name MWWTP Lab Services Building

Project Number 23-21

Applicant Name Michael Stueber, Adolfson & Peterson

Type of Development Office

## Property Description

This project is located at the Metro Wastewater Treatment Plant west of the Mississippi River in the City of St. Paul. The applicant is proposing to construct two building additions and rehabilitate existing pavement in the area. The total site area is 6.88 acres. An underground filtration system, surface filtration basin, and two iron-enhanced surface basins are proposed to meet stormwater treatment requirements. Filtration is being proposed due to utility conflicts and high groundwater. Pretreatment methods included sumped catch basins and isolator row.

## Watershed District Policies or Standards Involved:

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

## Water Quantity Considerations

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

## Water Quality Considerations

### *Short Term*

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

### *Long Term*

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

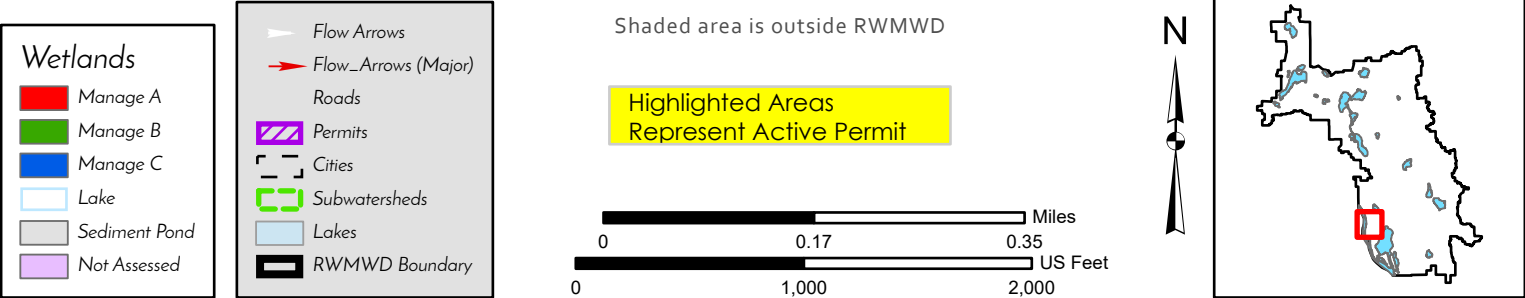
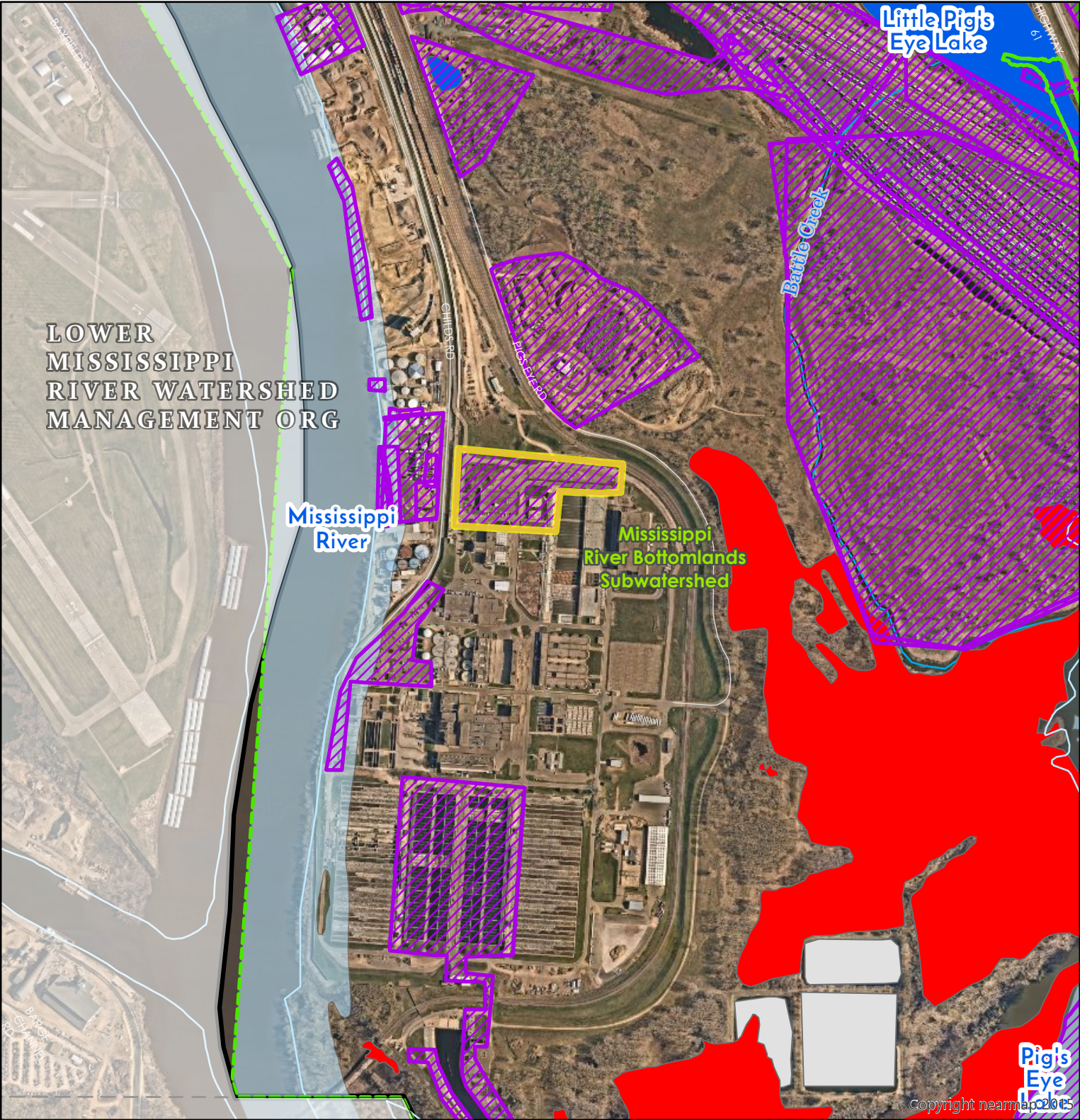
## Staff Recommendation

Staff recommends approval of this permit with the special provisions.

## Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan

# #23-21 MWWTP Lab Service Building



23-21

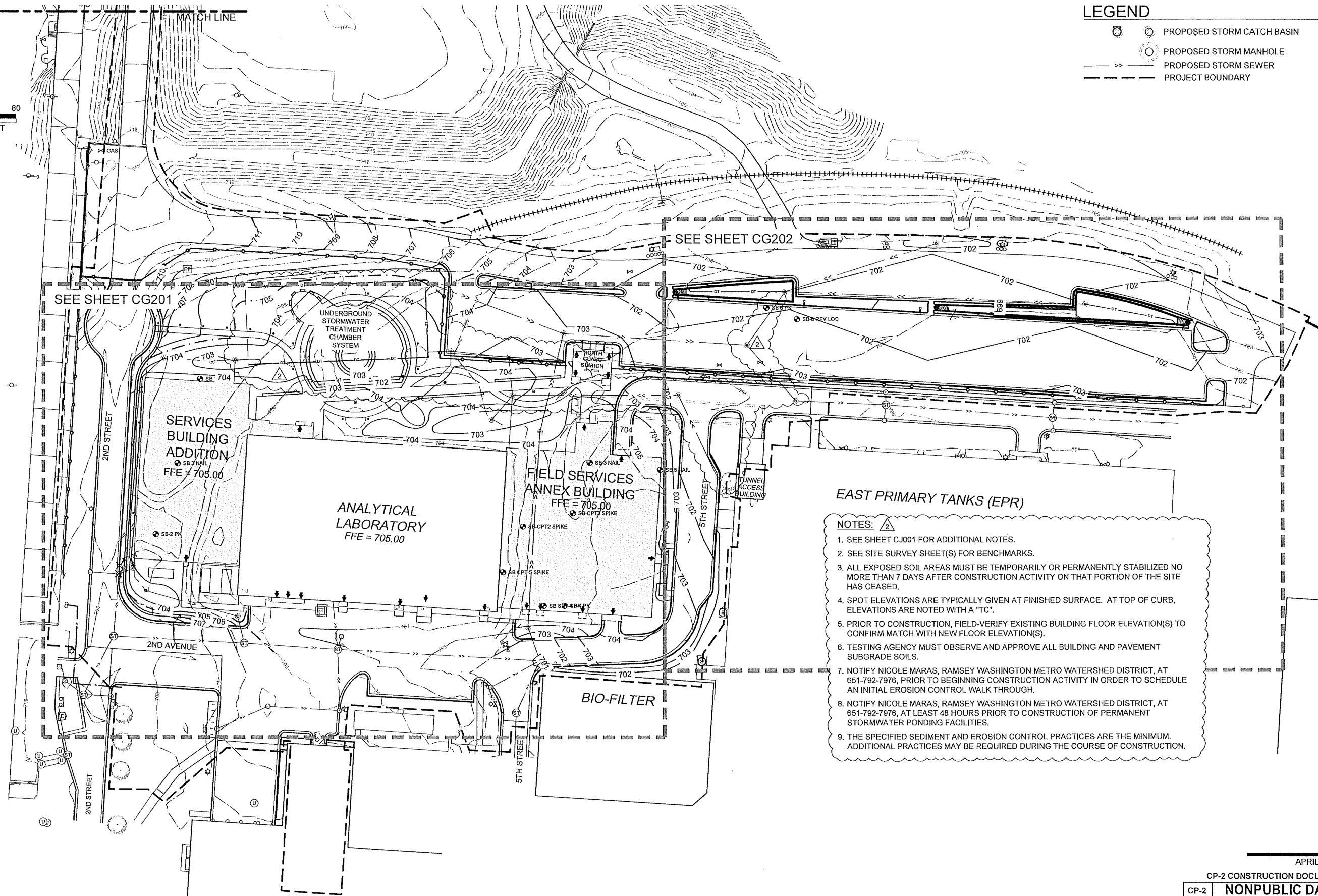
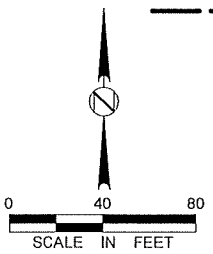
### Special Provisions

1. The applicant shall submit the final, signed plans set.
2. The applicant shall submit an executed stormwater maintenance agreement for the proposed facilities.



**LEGEND**

- PROPOSED STORM CATCH BASIN
- PROPOSED STORM MANHOLE
- PROPOSED STORM SEWER
- PROJECT BOUNDARY



**EAST PRIMARY TANKS (EPR)**

- NOTES:**
- SEE SHEET CJ001 FOR ADDITIONAL NOTES.
  - SEE SITE SURVEY SHEET(S) FOR BENCHMARKS.
  - ALL EXPOSED SOIL AREAS MUST BE TEMPORARILY OR PERMANENTLY STABILIZED NO MORE THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON THAT PORTION OF THE SITE HAS CEASED.
  - SPOT ELEVATIONS ARE TYPICALLY GIVEN AT FINISHED SURFACE. AT TOP OF CURB, ELEVATIONS ARE NOTED WITH A "TC".
  - PRIOR TO CONSTRUCTION, FIELD-VERIFY EXISTING BUILDING FLOOR ELEVATION(S) TO CONFIRM MATCH WITH NEW FLOOR ELEVATION(S).
  - TESTING AGENCY MUST OBSERVE AND APPROVE ALL BUILDING AND PAVEMENT SUBGRADE SOILS.
  - NOTIFY NICOLE MARAS, RAMSEY WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7976, PRIOR TO BEGINNING CONSTRUCTION ACTIVITY IN ORDER TO SCHEDULE AN INITIAL EROSION CONTROL WALK THROUGH.
  - NOTIFY NICOLE MARAS, RAMSEY WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7976, AT LEAST 48 HOURS PRIOR TO CONSTRUCTION OF PERMANENT STORMWATER PONDING FACILITIES.
  - THE SPECIFIED SEDIMENT AND EROSION CONTROL PRACTICES ARE THE MINIMUM. ADDITIONAL PRACTICES MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.

APRIL 6, 2023

CP-2 CONSTRUCTION DOCUMENTS

CP-2 **NONPUBLIC DATA**

METROPOLITAN WASTEWATER TREATMENT PLANT  
MWWTP SERVICES BUILDING & SITE IMPROVEMENTS  
METRO SERVICES BUILDING  
SITE GRADING PLAN

SIT  
**CG102**  
OF

2	06.08.2023		BULLETIN 2						
NO	DATE	BY	REVISIONS	REMARKS	NO	DATE	BY	REVISIONS	REMARKS

DESIGNED  
DRAWN  
CHECKED  
DATE: APRIL 6, 2023 REG NO: 41942

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

SIGNATURE: *Erik A. Hansen*

TYPED OR PRINTED NAME: ERIK A. HANSEN

**HGA**  
420 North 5th Street, Suite 100  
Minneapolis, Minnesota 55401  
Telephone 612.753.4000

**adolfson & Peterson Construction**  
5500 W Wayzata Blvd #200  
Minneapolis, MN 55416

PROJECT  
805998 & 808923  
MET-SIT-CG102

PLOTTED:  
MODIFIED:

## Stewardship Grant Application Summary

**Project Name:** Chikkala

**Application Number:** 23-27 CS

**Board Meeting Date:** 6/28/2023

**Applicant Name:** John Chikkala

**Residential** ☒

**Commercial/Government** ☐

### Project Overview:

This project is located off Lamplight Dr in the City of Woodbury. The property owner is currently going through our MN Water Steward program. He is proposing to install a native planting area and rain garden on his property to fulfill the requirements of the capstone project. The project will help solve erosion issues, help filter runoff into Carver Lake, and increase pollinator habitat.

MN Water Steward capstone projects are eligible for 100% coverage up to \$15,000.

### BMP type(s):

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

### Grant Request:

\$11,500.00

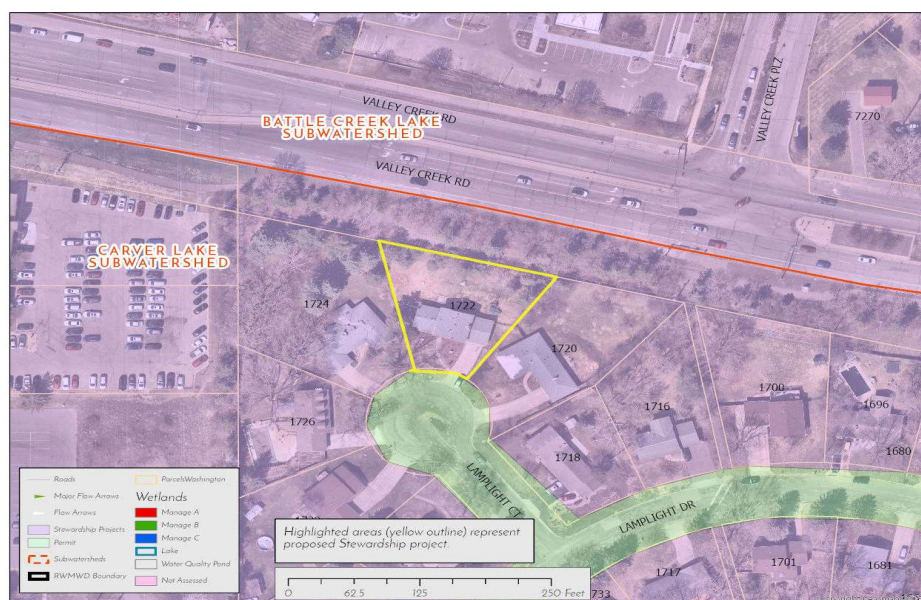
### Recommendation:

Staff recommends approval of this application.

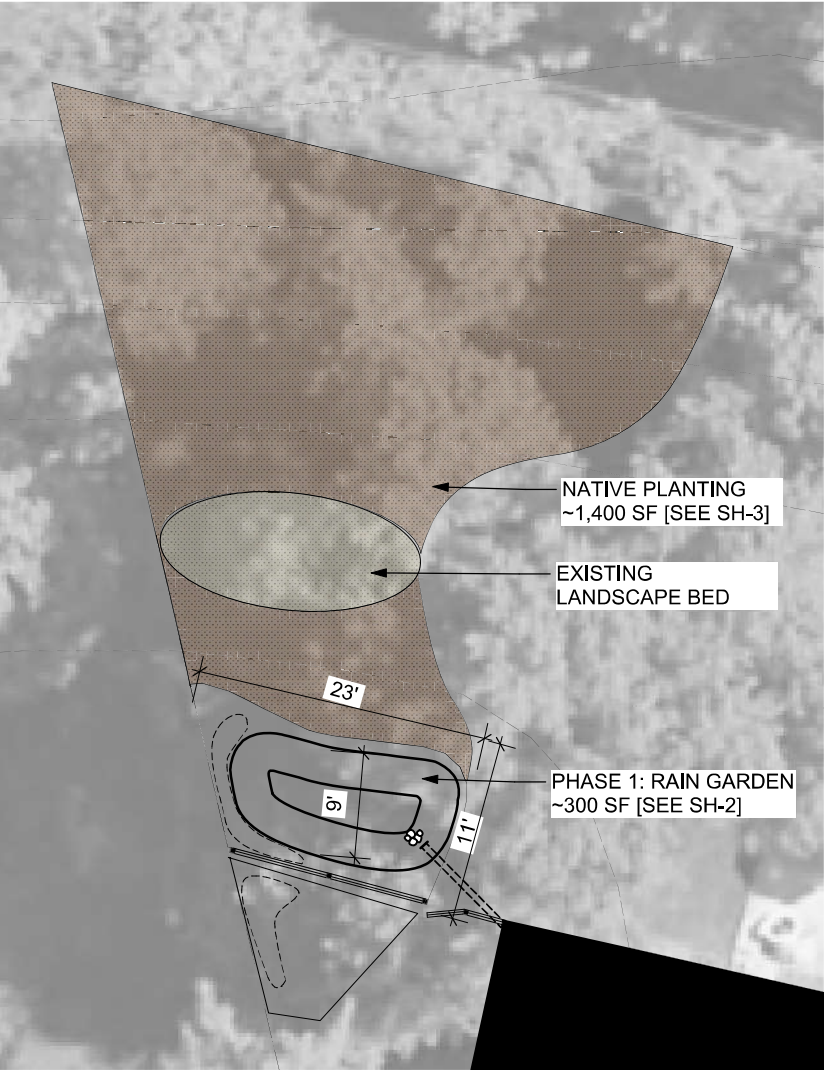
### Subwatershed:

Carver Lake

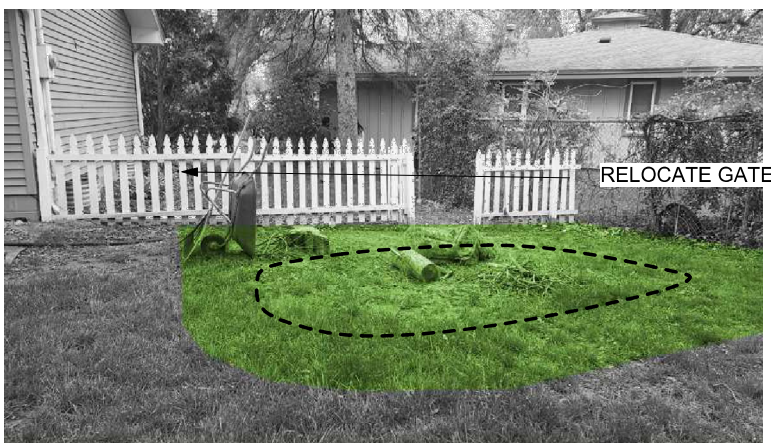
### Location Maps:







**PROJECT OVERVIEW**



*PROPOSED RAIN GARDEN: View from Back to Front*



*PROPOSED NATIVE PLANTING*

John Chikkala Rain Garden Project

The Chikkala's would like to create a raingarden to help slow and treat runoff in their backyard. This is a Water Steward project and includes approximately 350 SF of new garden space including a 150 SF rain garden. The soil is currently visibly eroding soil and impacting the adjacent property. The rain garden will use native plants to help the water infiltrate and create habitat for wildlife. Currently the existing site is lawn. There is an existing fence and gate that will be relocated to accommodate the garden. Project Area: 350 SF

This project includes the options for a Native Landscape Bed. This would remove sod between the existing garden area and rain garden. A native woodland planting would extend up to the fence to help stabilize the slope in the backyard and reduce mowing. Project Area: 1,400 SF

Project Title <b>Water Steward Project: Rain Garden and Native Planting</b>		Date 05/09/23
Sheet Title <b>Project Overview</b>		1 of 4
Project Address John Chikkala 1722 Cedar St Woodbury, MN 55125	Project Manager John Chikkala	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 DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.		Date Concept Reg. No. 58219
Signature Lori Tella		Date Concept Reg. No. 58219
<div> </div> <div>             2965 Noel Drive - Little Canada, MN 55117              (651) 792-7950  <a href="http://www.rwmwd.org">www.rwmwd.org</a> </div>		

## Stewardship Grant Application Summary

**Project Name:** 2023 Lake Phalen Aquatic Vegetation Harvesting **Application Number:** 23-28 CS

**Board Meeting Date:** 6/28/2023

**Applicant Name:** Adam Robbins

**Residential** ☐ **Commercial/Government** ☒

### Project Overview:

As part of the 2018 Stewardship Grant Program, RWMWD offered 50% cost share funding up to \$15,000 for materials and labor associated with harvesting aquatic plants. The City of St. Paul will be contracting mechanical lake weed harvesting services for Eurasian watermilfoil on Lake Phalen. Harvesting will be performed to remove organically-bound phosphorous within the plants and will also enhance recreational access at the boat launch, swimming beach, and fishing access points. Harvesting will occur by early July and will take one week to complete. The applicant has received an Invasive Aquatic Plant Management Permit from the MnDNR.

### BMP type(s):

Aquatic Vegetation Harvesting(1)

### Grant Request:

\$12,000.00

### Recommendation:

Staff recommends approval of this application.

### Subwatershed:

Lake Phalen

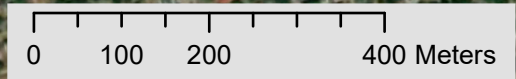
### Location Maps:





**Points**

- TRKPT
- EWM 0
- EWM 1
- EWM 2
- Treatment Area





# Consent Agenda Action Item

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**Board Meeting Date:** June 28, 2023

**Agenda Item No:** 3E

**Preparer:** Tina Carstens, Administrator

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**Item Description:** Change Order No. 2 for the 2023 CIP Maintenance & Repair Project

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## **Background:**

Attached is change order number 2 for the 2023 CIP Maintenance and Repair Project. This change order is for three different sites on the CIP Maintenance and Repair Project. The details of the changes are included in the attachments. All of these items were requested by district staff and approved in the field. The total increase in contract price is \$7,945.23.

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## **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 Item:** Maintain District projects and consider opportunities to support the maintenance activities of others.

**Goal: Manage Risk of Flooding** – The District will reduce the public's risk to life and property from flooding through programs and projects that protect public safety and economic well-being.

**Action Item:** Maintain District flood storage facilities and storm sewer systems.

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## **Staff Recommendation:**

Approve Change Order No. 2.

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## **Financial Implications:**

This change order will increase the contract price by \$7,945.23. There is available budget in the project contingency budget.

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## **Board Action Requested:**

Approve Change Order No. 2.

**Change Order No. 2**  
**Ramsey-Washington Metro Watershed District**  
**2023 Capital Improvement Project (CIP)**

**DATE OF ISSUANCE:** June 21, 2023

**Owner:** Ramsey-Washington Metro Watershed District  
2665 Noel Drive  
Little Canada, MN 55117

**Contractor:** Miller Excavating, Inc.  
3741 Stagecoach Trail N  
Stillwater, MN 55082  
Attn: Steve St. Claire

**Engineer:** Barr Engineering Company  
4300 MarketPointe Drive, Suite 200  
Minneapolis, MN 55435  
Attn: Brad Lindaman

**C.O.2.A Site 1 (Tamarack Swamp) – Clear Washed Filter Rock**

Description of Change:

The Owner's representative in the field requested that the filter rock that surrounds each outlet riser structure be replaced (2). The work was performed during mobilization at the site and observed by district field staff. All work was completed in good faith, completed, and accepted.

Method of Measurement: Clear-Washed Filter Rock will be measured based on weight of the Clear-Washed Filter Rock materials in tons (Ton), incorporated into the work as specified. Weight of Clear-Washed Rock material will be determined based on weigh tickets, provided to Engineer by Contractor from a certified scale. Tickets will be added together and rounded to nearest whole ton. Loads will not be included in the measurement unless a weigh ticket accompanies the load, and a copy is provided to Engineer.

Basis of Payment: Contractor will be paid a unit price per ton (Ton) for furnishing and installing Clear-Washed Filter Rock material, all complete as specified. This unit price shall be payment in full for the costs of all supervision, labor, materials, equipment, overhead and profit, and performing all operations as are necessary to furnishing and installing Clear-Washed Filter Rock materials, all complete as specified.

Change in Contract Time:

None

Impact on Contract Price:

Change Order Item C.O.2.A will increase the total contract price in the amount of \$447.55 as determined at a unit cost established on the bid form from Site 4 of \$89.51 for a quantity of 5 Ton.

#### **C.O.2.B Site 4 (Gervais Mill Park) – Composite Mud Mats**

##### Description of Change:

The work that involved placement of soil fill and riprap was found to be difficult to achieve by accessing through the park up the steep slope. It was determined in the field that the work could be performed at the top of slope with permission to access from the homeowner's property. To protect the existing ground surface from equipment, the Owner's representative in the field directed the contractor to furnish and install the necessary mud mats. The work was performed during mobilization at the site and observed by district field staff. All work was completed in good faith, completed, and accepted.

Method of Measurement: Composite Mud Mats Protection will be measured based on the actual surface area in square yards (S.Y.) of composite mud mats protection installed, up to the nearest whole square yard. The area will be determined by survey or other measurement of the actual horizontal surface area of installed mud mats specified or directed by the Engineer. All measurements will be completed by the Engineer.

Basis of Payment: Contractor will be paid a unit price per square yard (S.Y.) for the installation of Dura-Base Composite Mud Mats, or an approval-equal mud mat protection, all complete as specified. This unit price shall be payment in full for the costs of all supervision, labor, materials, equipment, overhead, profit and performing all operations as are necessary to meet requirements regarding the use of composite mud mats including furnishing, installing, adjusting, and maintaining mats, and removal of the mud mats after the completion of the Work, and restoration and/or cleaning of the area once mat is removed from the site, all complete as specified.

##### Change in Contract Time:

None

##### Impact on Contract Price:

Change Order Item C.O.2.B will increase the total contract price in the amount of \$5,186.29 as determined at a unit cost established on the bid form from Site 9 of \$48.47 for a quantity of 107 S.Y.

#### **C.O.2.AC Site 6 (Kohlman Basin) – Furnish and Install 2"x 12"x 4' Treated Boards**

##### Description of Change:

The Owner's representative in the field requested that the replacement of existing treated lumber would be necessary to perform the work associated with the construction of the up flow treatment system. The replacement of the treated lumber provided new vertical support to the existing horizontal weirs. The work was performed during mobilization at the site and observed by district field staff. All work was completed in good faith, completed, and accepted.

Method of Measurement: Work will be measured on the basis of a single lump sum (L.S.) unit to Furnish and Install 2"x 12"x 4' Treated Boards, all complete as directed.

Basis of Payment: Contractor will be paid a lump sum (L.S.) price to Furnish and Install 2"x 12"x 4' Treated Boards, all complete as directed. This unit price shall be payment in full for the costs of all supervision, labor, materials, equipment, overhead and profit, and performing all operations as are necessary to make all necessary cuts, drilling, fastening, and complete installation to Furnish and Install 2"x 12"x 4' Treated Boards.

Change in Contract Time:

None

Impact on Contract Price:

Change Order Item C.0.2.C will increase the total contract price in the amount of \$2,311.39

Attachments:

- Contractor's quote signed by David Vlasin on June 1, 2023.

Total Impact on Contract Price for these three changes will increase the total contract price in the amount of \$7,945.23.

This Change Order No. 2 is:

Submitted By:  
(ENGINEER)



Bradley J. Lindaman, Project Engineer  
Barr Engineering Company

Date: June 21, 2023

Authorized By:  
(OWNER)

Ramsey-Washington Metro Watershed District

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

Approved By:  
(CONTRACTOR)

Steve St. Claire, President  
Miller Excavating, Inc.

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

\*\*\*\*\*

# Permit Program

\*\*\*\*\*

# Permit Application Coversheet

Date June 28, 2023

Project Name Gerdau TMS Area Restoration

Project Number 23-20

Applicant Name Johannes Mack, Gerdau Ameristeel- St. Paul

Type of Development Wetland

## Property Description

This project is located on Red Rock Road, east of Pig's Eye Lake and the Mississippi River in the City of St. Paul. The applicant is proposing to remove deposited slag material from an existing wetland and St. Paul Parks property that had occurred over time when the facility was operational. The material will be deposited in an upland storage location elsewhere on the parcel, resulting in no net fill in the 100-year floodplain. In order to accommodate this work, a variance request is enclosed for work within the delineated wetland and associated buffer, resulting in temporary disturbance. The project's final condition would create an additional 0.6 acre of wetland over existing conditions and meet the District's buffer requirements. The City of St. Paul is the Local Government Unit (LGU) responsible for administering the Wetland Conservation Act (WCA) and waived jurisdiction to the DNR for water resource permitting since a majority of the work will take place below the Ordinary High Water Level (OHWL) of the Public Waters wetland. The total site area is 1.82 acres.

## Watershed District Policies or Standards Involved:

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

## Water Quantity Considerations

The proposed grading plan results in no net fill within the 100-year floodplain.

## Water Quality Considerations

### *Short Term*

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

### *Long Term*

There are no long term water quality considerations.

## Staff Recommendation

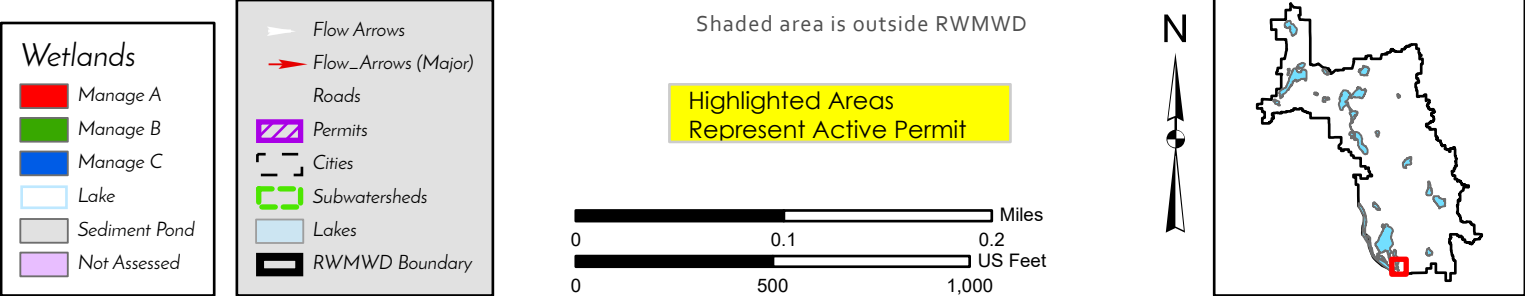
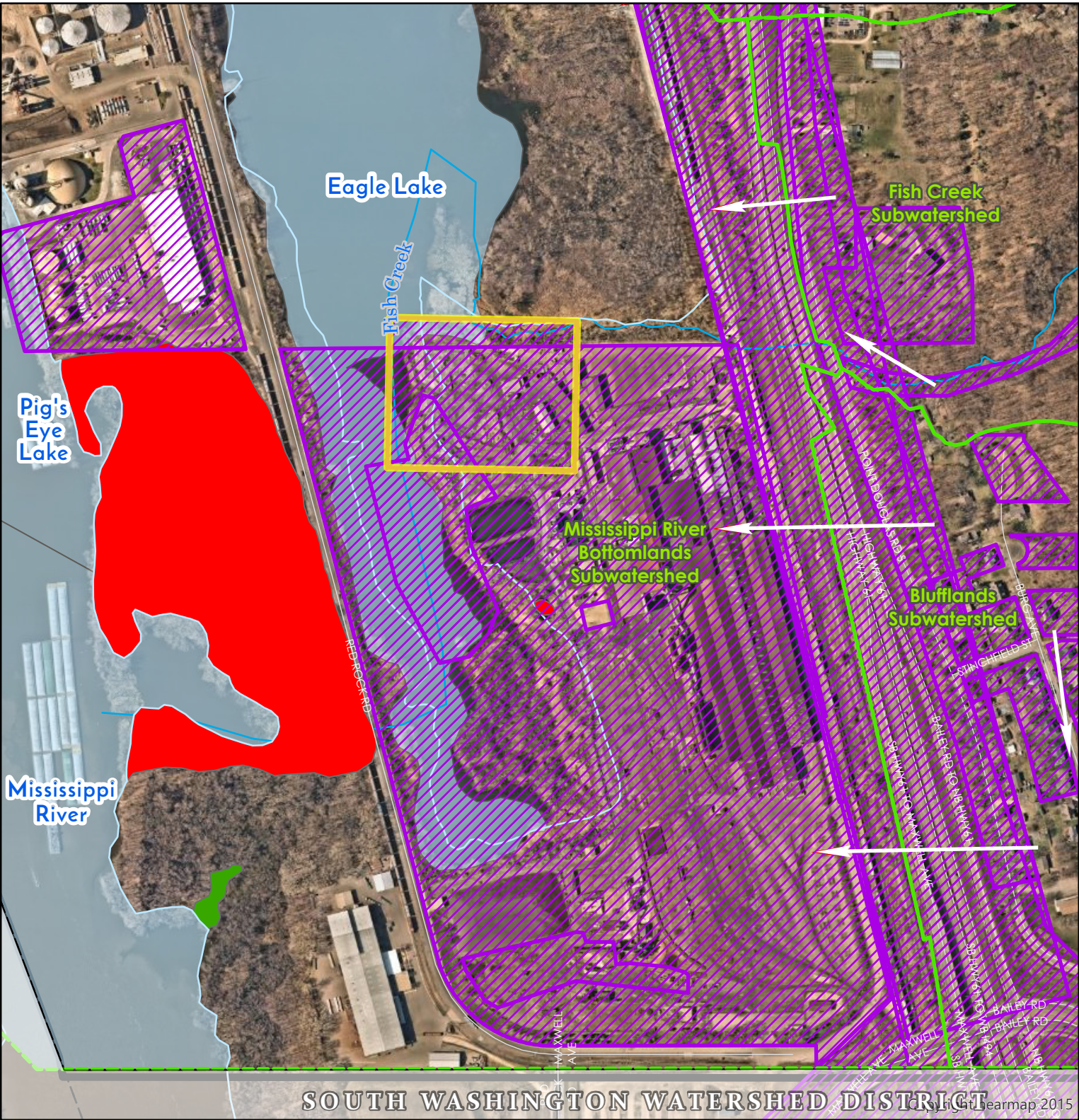
Staff recommends approval of this permit with the special provisions and variance request (Rule E).

## Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan



# #23-20 Gerdau TMS Area Restoration





### Special Provisions

1. The applicant shall submit the final, signed plans set.
2. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
3. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.







# Memorandum

**To:** Ramsey-Washington Metro Watershed District (RWMWD) Board of Managers  
**From:** Gerdau Ameristeel US Inc.  
**Subject:** Gerdau TMS Area Restoration  
**Date:** June 19, 2023

## Project Description

The Gerdau TMS Area Restoration project is located at the northern boundary of the Gerdau plant located at 1678 Red Rock Road and extends to the north into the adjacent City of St. Paul Parks and Recreation property in the City of St. Paul, within Section 23 of Township 28N, Range 22W, Ramsey County, Minnesota.

The project is a voluntary restoration within the St. Paul Parks and Recreation property involving removal of inert slag biproduct material, which was historically deposited from slag processing operation activities that took place on the adjacent property that is currently owned by Gerdau. The project will remove the remaining slag fill material and restore the St. Paul Parks and Recreation property back to original conditions prior to fill placement. Work will take place within 0.78 acres of the St. Paul Parks and Recreation property and 1.04 acres within the Gerdau property.

A RWMWD grading permit application for this project was submitted on May 23, 2023.

This memo provides project information to support a request for a variance of the Rule E wetland management no disturb wetland buffer.

## Rule E: Wetland Management

Aquatic resources affected by the project includes removal of slag within 0.173 acres (7,521 SF) of wetland on the St. Paul Parks and Recreation property previously delineated as Wetland 1. Of this area, 447 SF are above, and 7,074 SF are below the DNR OHWL of 692.5' associated with North Star Lake. The DNR Public Watercourse of Fish Creek (PWI ID 62019a) is not within the project area.

- The remaining slag removal outside of existing wetland will result in approximately 0.6 acres of additional wetland area.
- Excavated slag will be replaced with clean sandy soils and topsoil to match the finished elevation to the existing adjacent grade at the north end and seeded with a native seed mix. The existing steeply sloped slag pile on the Gerdau property will be pulled back to a 3:1 slope and stabilized with topsoil and native seeding.
- Excavated material from the restoration property will be placed in an upland location within the Gerdau property.

**Previous Agency Communication, Documentation, and Submittals:**

- Wetland boundaries and types were previously approved by the City of Saint Paul Minnesota Wetland Conservation Act (WCA) Local Government Unit (LGU) on 1/6/2023. The proposed project was discussed during the wetland delineation Technical Evaluation Panel (TEP) site review, including Andrew Hogg (City of Saint Paul), Ben Meyer (BWSR), and Nicole Maras (RWMWD).
- On 1/4/2023, Minnesota Department of Natural Resources (DNR) area hydrologist Dan Scollan confirmed that the ordinary high-water elevation (OHWL) for the DNR Public Water of North Star Lake 62-237P is 692.5' (NGVD29 datum).
- The U.S. Army Corps of Engineers (USACE) project manager Raelene Hegge submitted a wetland delineation concurrence letter on 1/25/2023 under regulatory file no. MVP-2022-01663-RMH.
- A Minnesota Joint Application Form for Activities Affecting Water Resources in Minnesota (Joint Application) was submitted to the City of St. Paul, MN DNR area hydrologist, and USACE project manager on 3/16/2023.
- On 6/1/2023, the USACE submitted a determination that the project activities are authorized under Section 404 of the Clean Water Act by Nationwide Permit 27 for Aquatic Habitat Restoration, Enhancement, and Establishment Activities.
- WCA – A waiver agreement was issued on 2/16/2023 documenting that the City of St. Paul has waived WCA jurisdiction to the DNR for the 447 SF of work in Wetland 1 above DNR OHWL of 692.5'.
- MN DNR Public Water- In addition to the 447 SF of work in wetland above the DNR OHWL, that has been waived to the DNR; 7,074 SF of work in Wetland 1 is below the DNR OHWL of 692.5'. The total area of 0.173 ac. of work in wetland for this project is addressed through a DNR Public Waters Work Permit Application submitted on 3/16/2023 using the Minnesota DNR Permitting and Reporting System (MPARS), Reference Number 2023-0589.
- On 12/2/2022, Nicole Maras provided RWMWD permitting guidance indicating that the RWMWD no-disturb wetland buffers apply. She identified that since a MNRAM assessment was not previously completed for the wetland, the assumed buffer width would be 37.5' minimum (75' average) and that a variance from Rule E will be needed for the wetland buffer disturbance.

**Rule E Variance Request:**

Avoiding the wetland and adjacent buffer is not possible due to the nature of the project being located within the wetland and buffer. However, the project will result in an improvement to the wetland and its associated buffer in the final condition as follows:

- The existing shallow marsh/shrub-carr wetland communities within and beyond the project area are dominated with non-native invasive species including European common reed, purple loosestrife, and common buckthorn and the project area is further disturbed by slag fill material. Existing site condition photographs are attached.

- The project will restore wetland through removal of slag fill material. Slag will be removed within 0.173 acres of existing wetland and in adjacent areas (currently non-wetland due to slag fill), which will result in an additional approximately 0.6 acres of wetland.
- Resulting elevations will match adjacent non-disturbed wetland and will not result in a change in the wetland community types.
- Prior to seeding, non-native invasive weed species within the disturbed area will be controlled by a licensed vegetation management contractor in accordance with appropriate methods for erosion control, threatened and endangered species protections, and aquatic resources protection.
- The existing disturbed wetland and additional wetland areas, will be restored and seeded by a qualified contractor with Riparian South and West MNDOT Seed Mix 34-261, providing cover of native grasses, sedges, rushes, and forbs. Adjacent willows are anticipated to fill into the project area over time.
- Adjacent upland project areas (currently a slag pile void of vegetation) will be improved with 12 inches of topsoil seeded by a qualified contractor with the native Mesic Prairie MNDOT Seed Mix 35-241 certified free of invasive species.
- After restoration is completed, the average width from the edge of the DNR OHW elevation of 692.5' MSL is 120' wide, including approximately 60' width of anticipated restored wetland above the OHW. The average width of anticipated restored wetland from the edge of the existing wetland is approximately 90' combined with the upland buffer width above the estimated restored wetland averages approximately 53', exceeding the required average 75' width. See Restoration Plan sheet C-03 attached.
- The seeded native upland buffer at the eastern edge of the project tapers to a width narrower than 37.5', yet the area beyond the seeding is within a steeply sloped area that is currently vegetated with naturalized vegetation and will not be disturbed by the project. This area includes cottonwood trees and an herbaceous understory that will be retained and provide stabilization along the hillslope and the topography of the hillslope does not tend to channelize the flow of surface runoff. Therefore, the minimum 37.5' buffer will be met with a combination of non-disturbed naturalized vegetation and native seeding in the areas disturbed by the project.

Due to the nature of the project, since complete avoidance is not possible, the project has been designed to restore conditions to improve the existing conditions of the wetland and associated upland buffer to the extent practicable and will result in additional wetland area. Therefore, a variance of the wetland and buffer Rule E is requested.



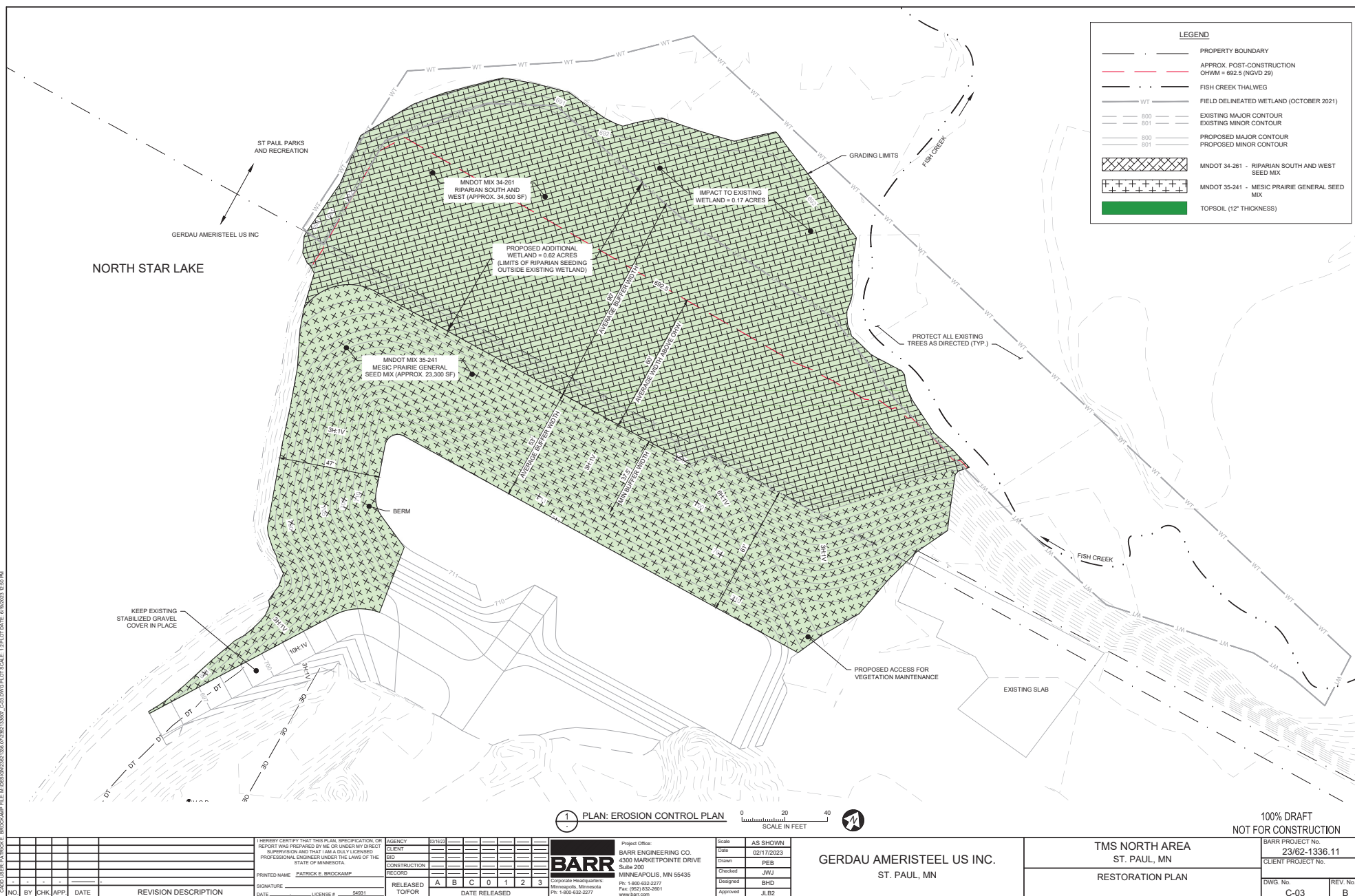


Wetland 1 – dominated by invasive European common reed



Existing conditions project area looking west







# RAMSEY-WASHINGTON

## METRO WATERSHED DISTRICT

### MEMORANDUM

**Date:** June 28<sup>th</sup>, 2023

**To:** Board of Managers and Staff

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

**Subject:** June Enforcement Action Report

During June 2023:

<b>Number of Violations:</b>	<b>7</b>
Install/Maintain Inlet Protection	1
Install/Maintain Perimeter Control	4
Install/Maintain Construction Entrance	1
Contain Liquid/Solid Wastes	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, TAC rule change process, WaterFest, Twin Lake Boulevard preconstruction meeting, ESC Advisory Board Meeting, MN Water Workforce meetings, failing BMP site visit with City of Woodbury, closed permit BMP inspections and reports, Employee Right-to-Know and IDDE staff training

### Single Lot Residential Permits Approved by Staff:

None

### Permits Closed:

17-32 Villas of Gem Lake (Gem Lake)



## Project Updates:

### #22-31 White Bear Lake Apartments II

Site work continues at the future apartment site off of County Road D and Hoffman Rd, adjacent to a past permitted project, (#19-30) White Bear Lake Apartments I. Staff visited the site on June 6<sup>th</sup> for a routine inspection and found a couple minor maintenance items, but overall the site was compliant. Staff returned to the site on June 20<sup>th</sup> for another routine inspection and to observe installation of the underground infiltration system that is designed to meet stormwater treatment requirements. Staff advised contractors to ensure all inlets are protected through the duration of construction, and post-install. Staff also recommended covering bare soil slopes during the installation process to prevent sediment from washing into the clean fabric and rock.



### #21-16 Metro Transit Gold Line BRT

Staff conducted a routine inspection on June 6<sup>th</sup> at the expansive Metro Transit Gold Line construction project. These inspections typically take several hours, across multiple city boundaries. During this inspection, staff found improper concrete waste containment at one of the bridge locations. All spilled materials must be cleaned up and properly disposed of. Other action items observed during this inspection included maintaining inlet protection,



construction entrances, and perimeter control; and temporarily stabilizing inactive soil throughout the project.

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# Stewardship Grant Program

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# Stewardship Grant Program Budget Status Update

June 28, 2023

Homeowner	Coverage	Number of Projects: 15	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	10	\$24,242.50**
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	4	\$42,089*
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: 18	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	2	\$7,565
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	3	\$4,500
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	69	\$47,300*
Consultant Fees			\$25,529
<b>Total Allocated</b>			<b>\$720,736.50</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	\$720,736.50
<b>Total Available Funds</b>	<b>\$407,263.50</b>

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# New Reports/ Presentations

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## MEMORANDUM

**TO:** Board of Managers and Staff  
**FROM:** Tina Carstens, Administrator  
**SUBJECT:** 2024 Budget Discussions  
**DATE:** June 22, 2023

It is that time of year again where we start to discuss the budget for the following year. I have reviewed the current year's budget and spending and asked staff and Barr Engineering to give me input on the anticipated work plan and budget issues for 2024. I will take the input from the board at our July meeting along with the staff input to develop the preliminary budget table and narrative that will come back to you at the August board meeting.

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

At the July board meeting, I will review this memo and respond to any questions from the board. At the August meeting, I will present and review a draft budget table with a line-by-line description of the items. In September, I will present a revised budget based on our August discussions, and we will hold a public hearing on the preliminary budget. The preliminary budget and proposed levy with the reflected changes from our September meeting discussion will be sent to the county auditor by September 30, as required. This budget and levy can be modified anytime until our December meeting when we will need to approve our final budget and levy for 2024.

### 1. 2023 Work Program Analysis

My look at the current year budget and work plan shows that projects and programs are proceeding as planned, and we should be completing most items by the end of the year that were intended to be completed.

### 2. Overall Budget Reserve Level

As was indicated in our 2022 audit summary, the district has kept the reserve at an acceptable level which is more than 50% of the year's general fund budget. For many years

the reserve level was more than 100% of the general fund budget but in 2021 we moved money from the general fund reserves to the Stormwater Impact Fund where it could be more transparently managed. After that move, we have been holding around the 50% mark. As I am preparing the budget table I will carefully consider the reserve amount to be sure we are staying around there and we have adequate funds for cash flow and reserve purposes. Please also note that we do have a healthy contingency fund for our capital improvement funds that can be used when needed for bigger projects or items that come up during the year.

### **3. Staffing and Program Support**

***Salaries and Benefits*** - The draft budget will include salaries for existing staff and interns. Current salaries will be used in the budget with a calculated 5% overall increase and an estimated increase due to health insurance premium increases. I hope to have some projection information on insurance increases by the September meeting. I will be evaluating our ability to continue to hire based on the revised organizational chart in 2023. There may also need to be an increase in our salary budget to continue the structure change in 2024.

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

### **4. Building Maintenance and Office Equipment**

Every year as the building gets older, we evaluate the potential needs and related budget required. I anticipate keeping the budget item similar for 2024 to address needs as they arise. We are also evaluating our district vehicle needs as we add staff. If needed, I will include the purchase of a new vehicle in the 2024 budget table.

### **5. Natural Resources Program**

I will be working with the new natural resources program staff to evaluate the direction of the program and the level of projects for 2024 and beyond. I anticipate keeping the program budget similar to that of 2023. The work in the Keller Park area will continue from 2023 to 2024. We will continue to work in the Phalen and Owasso Chain of Lakes on carp



management as we maintain a healthy fish population in those lakes. And as usual, the maintenance of our hundreds of acres of past restoration sites continues.

#### **6. BMP Stewardship Grant Program**

We continue to be successful in our BMP grant program and have some great projects planned for 2023. We would anticipate a similar interest in the program for 2024 in regards to the usual grant program projects. A larger project with Woodland Hills Church is progressing and may be implemented in 2024. More information will be gathered over the next several months regarding the street sweeping study and pilot program in order to make a suggestion for the continued efforts in 2024. As discussed with the board previously, we may want to consider a higher amount of grant funds in order to do more street sweeping or assist our cities in purchasing more equipment.

#### **7. Education, Communications, and GIS Programs**

The education program will continue in 2024 to work in our schools and alongside our natural resources staff with restoration projects. There is also coordination happening with our schools and churches as they relate to our retrofit projects. The communication program has some special project plans for over the next year and those budgets will be reviewed and included in the budget table. There are no big changes to our needs in GIS other than some smaller, new equipment purchases. For events, we look forward to continue on with a big WaterFest celebration in 2024.

#### **8. Water Monitoring Program**

We have usual monitoring equipment purchasing and maintenance needs in 2024. There is some older equipment that needs replacing as part of a rotation. We also will buy new equipment as needed as we monitor special projects.

#### **9. Permit and Inspection Program**

No new budget needs have been identified for the permitting and inspection program.

#### **10. Watershed Management Plan Updates**

The current district watershed management plan is dated until April 2027. In order to have an approved plan in spring of 2027, the plan will need to be completed around the end of the 2026 year. In order to do that, the planning process will start in 2024. I will be working with Barr Engineering staff to map out the process and timeline as well as an estimate for planning costs in 2024.

## 11. Research

The district will continue to fund research and seek opportunities to do more research to advance our work. We will continue to look at using aeration for shallow lakes treatment and continuing our work with the St. Anthony Falls Research Lab to look at the use of iron and spent lime to treat phosphorus in stormwater ponds. We will have further needs in 2024 regarding the Kohlman Lake aquatic plant research. We will likely receive another request to support the Minnesota Stormwater Research Council (MSRC), which the board has supported for several years. I will be working with the staff members of that program to come to the board to give an update on the results of the research supported by those funds. It is good to have a healthy contingency in this line item for opportunities that come up during the year as well.

## 12. Capital Improvements Planning and Projects

***Flood Damage Reduction Fund*** – Over the last several years, the board has added money to the fund to prepare for future projects as feasibility studies were being completed. We have been successful with this planning to implementation model with projects completed and homes removed from the flood risk. For 2024, projects in the Kohlman Creek, Owasso Basin and Ames Lake area are being considered. The draft budget table will estimate the needs for 2024 and evaluate the funds available and needed. The completion of the resiliency study for the rest of the district in 2023 may also reveal projects to implement in 2024 and beyond.

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

***Targeted Retrofit Projects*** – Since the studies have been completed for our impaired and at-risk of impairment subwatersheds, the potential projects have been placed in the prioritization tool developed to help guide staff in pursuing projects that would best meet the goals of the district. The projects anticipated for 2024 that will be included in the August budget table include Woodbury Target Store and Pioneer Park Reuse.

***Wetland Restoration Projects*** – as discussed with the board recently regarding the district's wetland programs and policies, wetland restoration opportunities can be found throughout the district and have been identified. A potential restoration project called Cottage Place Wetland Restoration was planned several years ago but was not implemented at that time.

There is a budget available in carry over funds to complete wetland restoration projects. Staff is evaluating the information we have and will give more information to the board during the budget process on what could be completed in 2024.

***Maintenance and Repair Project***— we continue to find our CIP Maintenance and Repair budget adequate even with the additional items we address each year. We expect a similar level of need for our annual contract and will continue to offer our cities the ability to add their pond clean-out (or other Stormwater maintenance needs) projects to our contract.

## Project Work Plan

Date: June 19, 2023

**Project:** Target Stormwater Retrofits - Woodbury / 23821306.00

### Project Team

District Staff: Paige Ahlborg

Barr Staff: Erin Anderson Wenz, Katie Turpin-Nagel, Gareth Becker, Tyler Olsen, Marcy Bean

### Barr Team Roles

Principal-in-charge	Erin Andersen Wenz
Project Management:	Katie Turpin-Nagel
Design Engineers:	Katie Turpin-Nagel, Tyler Olsen, Katherine Tomaska
Design Technician:	Gareth Becker
Landscape Architecture:	Marcy Bean
Communications:	Katie Turpin-Nagel

### District Staff

Project Manager: Paige Ahlborg

### Target Corp. Staff

Stormwater Program Manager: Dan Latham

### Scope of Work

The first phase of this project consists of developing concept designs for stormwater retrofit projects at the Target retail location at Valley Creek Plaza in Woodbury, MN. The stormwater retrofits may alter the surface parking layout of the existing parcels owned by Target (e.g., removal of approved number of parking spaces approved by Target) and may utilize existing open space for surface projects and underground treatment systems. The approximate area that will be assessed for the incorporation of stormwater retrofits is approximately 6.5 acres of parking lot and open green space. Treatment systems will be designed and selected to be economical, similar to those selected by private developers in the district. The deliverables for Phase 1 of the project will be conceptual plans and planning level opinions of cost. After Phase 1 is complete, Barr will present the concept design and planning level opinion of cost to the RWMWD managers for their review and approval to continue to Phase 2 of the project.

Phase 2 of this project will proceed after Board approval and will consist of preparing final plans, specifications, and an engineer's opinion of cost, conducting project bidding, and assisting with construction observation. Phase 2 deliverables will consist of final plans and specifications, presentation of bids, weekly construction updates, and submittal of monthly payment applications during active construction. Construction will not begin until spring 2024 at the earliest.

## **Budget**

Barr will complete Phase 1 of the work outlined above and below on a time and expense basis, for an estimated **\$46,900**. Barr will complete Phase 2 of the work outlined above and below on a time and expense basis, for an estimated **\$126,300**.

## **Schedule**

We propose the following schedule, milestones and deliverables.

### **Phase 1 Tasks:**

**Task 1 (November 2022): Topographic Survey.** A topographic survey will be conducted to establish existing grades and elevations and locations of existing infrastructure and utilities. The survey will be conducted using a total station and/or survey grade GPS with horizontal and vertical accuracy of +/- 0.2 feet.

**Task 2 (October 2022 - January 2023): Conceptual Designs.** Conceptual design options will be developed and presented to district staff, the board of managers, and Target representatives.

**Task 3 (June 2023): Soil Borings.** Soil borings will be done at prospective BMP locations to evaluate infiltration capacity of the existing soils. Soil borings will need to be scheduled outside of busy holiday shopping seasons. Soil borings will be scheduled as early as June 2023, to allow snow to melt and ground conditions to thaw and dry.

### **Phase 2 Tasks:**

**Task 1 (January 2024): Engineering and Design.** All contract documents and bidding documents will be completed. This task includes all hydrologic and hydraulic modeling and calculations, design development, and opinion of probable construction costs. Intermediate milestones will include 50% and 90% design review and 100% design approval from RWMWD Board.

**Task 2 (February 2024): Project Bidding.** The project will be publicly bid and a contractor will be recommended to the board.

**Task 3 (September 2024): Construction Observation.** Construction oversight and administration will be provided during construction of the project.



## Project Tracking - Project Milestones

Milestone	Estimated Completion Date	Actual Completion Date
<b>Phase 1</b>		
Topographic Survey Completed	November 2022	November 17, 2022
Design Team Kickoff	November 2022	November 21, 2022
Conceptual Designs Completed	January 2023	January 6, 2023
Conceptual Design Wrap-up Meeting with Target	January 2023	March 1, 2023
Soil Borings Completed	June 2023	
<b>Phase 2</b>		
50% Draft Plans (Internal)	Mid-August 2023	
90% Draft Plans and Specifications (Internal)	Early October 2023	
90% Plans, Specs, Cost Estimate for Target and District Review	Early November 2023	
90% Comments Due from Target and District	Early December 2023	
100% Plans and Cost Estimate for Board Approval	Early January 2024	
Public Bid Release	Early February 2024	
Bids Received	End February 2024	
Contractor Recommendation to Board	March 2024	
Notice to Proceed	May 2024	
Construction Substantial Completion/Plant Establishment Period Begins	September 2024	
Plant Establishment Period Ends	September 2025	

### Phase 1 Budget Tracking (Engineering)

Project Objectives	Estimated Budget*	Spent to Date
Task 1: Topographic Survey	\$16,500	\$9,554.00
Task 2: Conceptual Design	\$20,000	\$14,231.00
Task 3: Soil Borings	\$10,400	\$4,297.00
<b>Total</b>	<b>\$46,900</b>	<b>\$28,082.00</b>

\*Barr budget only- these totals do not include RWMWD project budgets.

### Phase 2 Budget Tracking (Engineering)

Project Objectives	Estimated Budget*	Spent to Date
Task 1: Engineering and Design	\$70,100	\$589.50
Task 2: Project Bidding & Construction Administration	\$56,200	
<b>Total</b>	<b>\$126,300</b>	<b>\$589.50</b>

\*Barr budget only- these totals do not include construction or RWMWD project budgets.

## Monthly Updates

Month	Budget Spent \$ / %
<b>October 2022</b> – Survey Request for Proposal Letters, Project Set-up	\$949.50 (0.5%)
<b>November 2022</b> – Topographic Survey Contracting & Coordination	\$2,176.00 (1%)
<b>December 2022</b> – Topographic Survey Review; Concept Designs	\$15,321.00 (9%)
<b>January 2023</b> – Concept Designs	\$19,921.00 (12%)
<b>February 2023</b> – Prep for Concept Design meeting with Target	\$20,866.50 (12%)
<b>March 2023</b> – Concept Design presentation with Target staff	\$22,001.50 (13%)
<b>April 2023</b> – Concept Design memo; Geotechnical investigation kick-off	\$24,210.50 (14%)
<b>May 2023</b> – Concept Design memo and presentation to Board; Geotechnical subcontract development	\$26,087.50 (15%)
<b>June 2023</b> – Geotechnical subcontract and access agreement development; Geotechnical investigation scheduling; Development of Phase 2 budget and schedule	\$28,671.50 (17%)

## Project Budget Tracking (2024 Construction - Contractor)

Item	Cost
Original Bid (from Contractor)	
<b>Final Contract Price</b>	

## Partial Payment Tracking (2024 Construction – Contractor)

Item	Cost
Payment Application #1 (Date)	
Payment Application #2 (Date)	
Payment Application #3 (Date)	
<b>Total Paid to Date</b>	

# Project Work Plan

Date: June 9, 2023

**Project:** Kohlman Lake Aquatic Plant Management Effects Study  
Project # 23621006.00 230 009

## Project Team

District Staff: Eric Korte and new Natural Resources Program Manager  
Barr Staff: Keith Pilgrim (Project Manager)  
Erin Anderson Wenz (Principal)  
Kevin Menken (Monitoring and Data Analysis)

## Scope of Work

The water quality of Kohlman Lake has declined significantly in recent years. During this time there has been intensive aquatic plant management and it is suspected that declining water quality is linked to the loss of aquatic plants. This second phase of the project includes new data collection, data analysis, lake modeling, analysis, and reporting. This phase of the project will commence in March with the intent to complete the project by the end of December.

Below is a synopsis of project activities (see attached monitoring plan):

- Study Sites: Kohlman Lake (experimental lake) and Beaver Lake (control)
- Stormwater monitoring at the inlet to Kohlman and Beaver Lake (conducted by RWMWD staff)
- In-lake water quality monitoring (Hennepin County and RWMWD)
- Aquatic plant surveys (Hennepin County and RWMWD) for abundance and biomass.
- Monthly drone flyover and imagery analysis (Barr Engineering). This will be used to evaluate aquatic plant coverage area, density, and the condition of the plants (alive or dead).
- Sediment coring and analysis (Barr Engineering) to evaluate the condition of the alum treatment in Kohlman Lake.
- Stormwater volume and water quality modeling using P8 (Barr Engineering).
- In-lake modeling using the Barr shallow lake model (Barr Engineering). Modeling will be conducted to evaluate the effect of aquatic plants on nutrients and phytoplankton in Kohlman Lake and shallow lakes in general.
- A detailed report will be developed to support Kohlman Lake and shallow lake aquatic plant management policy in RWMWD (Barr Engineering).

## Budget

Barr will complete the work outlined above on a time and expense basis for an estimated \$85,705.

Below is the project schedule:

## Project Schedule

Milestone	Estimated Date	Actual Date
Monitoring Plan / Project Coordination / Site Visit	March-October, 2023	April, 2023 (monitoring plan)
Sediment Coring and Analysis	April-September, 2023	TBD
Drone Surveys	April-September, 2023	TBD
Lake Modeling	October-December, 2023	TBD
Reporting	December, 2023	TBD

Below is the project budget.

### Project Budget Tracking

Project Tasks	Estimated Budget	Spent to Date
Monitoring Plan / Project Coordination / Site Visit	\$8,600	\$8,600
Sediment Coring and Analysis	\$9,630	\$6,238
Drone Surveys	\$17,875	\$5,000
Lake Modeling and Analysis for Management Target Development	\$34,400	\$3,826
Reporting	\$15,200	\$0.00
<b>Total</b>	<b>\$85,705</b>	<b>\$23,664</b>

### Status Update

Monitoring by Barr staff, RWMWD staff and Hennepin County staff is currently underway. This includes sediment, aquatic plants, water quality, stormwater runoff and flow, and water level in Beaver Lake.

## Attachment A

### Monitoring Workplan

Table 1 below outlines the monitoring that will be conducted in 2023 to develop a relationship between aquatic plant coverage, phytoplankton abundance, and phosphorus loading (internal and external loading). The ultimate goal of this effort is to define a threshold for aquatic plant management in District Lakes, as a percentage of lake area treated, that will not adversely affect water quality. The basis of each monitoring activity is as follows:

- **Dissolved Oxygen Probe**
  - Continuous measurement of dissolved oxygen will be used to estimate internal phosphorus loading from lake bottom sediment.
- **Sediment Coring**
  - Phosphorus fractionation will be used to assess the alum treatment in Kohlman Lake as well as assist in the calculation of internal loading in Kohlman and Beaver Lake.
- **Sond Measurements**
  - Used to understand the change in several parameters with lake depth.
- **Water Quality Monitoring-In Lake**
  - Nutrients and phytoplankton abundance (measured as chlorophyll a). These parameters will be the target of the modeling effort to determine the effect of aquatic plant abundance and coverage.
- **Aquatic Plant Point Intercept Surveys**
  - Will identify coverage, and relative species abundance.
- **Aquatic Plant Biomass and Nutrient Measurements**
  - These measurements will be used to determine the change in total lake biomass over the course of the study period. This is important as more aquatic plant biomass will result in more nutrient uptake.
- **Drone Flyovers**
  - The purpose of the flyovers is to calculate several metrics: (1) percent lake surface covered by aquatic plants, (2) estimate the condition of the aquatic plants (alive vs. dying), and (3) fill in the gaps of the biomass and point intercept surveys.
- **Stormwater Monitoring**
  - Samples will be collected in Kohlman Creek at the inlet to Kohlman Lake as well as at 2 stormwater inlets to Beaver Lake.

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Table 2 shows the monitoring frequency, monitoring to be conducted each month, and the party that will be conducting the monitoring. Most of the monitoring will be conducted by RWMWD and Ramsey County staff. One Barr staff will conduct the sediment coring with a RWMWD staff providing assistance. One



**Table 1. Monitoring Plan Outline**

Type of Monitoring	Location	
	Kohman Lake	Beaver Lake
Dissolved Oxygen Probe	Deploy in Middle of Lake (45.024164,-93.057559)	Deploy in Middle of Lake (45.019077,-93.143500)
Sediment Coring	Sed Fractionation (0-20 cm, 7 slices per core), 5 cores, total aluminum, total iron	Sed Fractionation (0-20 cm, 7 slices per core), 5 cores, total iron (0-6 cm)
Sond Measurements (DO, pH, temperature, redox)	Profile, 0.5m increments	Profile, 0.5m increments
	Conduct measurements at KL_Sed4, KL_Sed1, KL_Sed3	Conduct measurements at BL_Sed3, BL_Sed5
Water Quality Samples-In Lake	Surface and Bottom: TP, OP, TDP, TKN, Ammonia, Nitrate+Nitrite, and Chl <i>a</i> (surface only)	Surface and Bottom: TP, OP, TDP, TKN, Ammonia, Nitrate+Nitrite, and Chl <i>a</i> (surface only)
Aquatic Plant Point Intercept	PI Survey, rank individual plant species per DNR (0-3), rank total abundance as 0-5.	PI Survey, rank plant abundance as 0-5.
Aquatic Plant Biomass Samples	20 samples per lake (total biomass wet weight, after water draining)	20 samples per lake (total biomass wet weight, after water draining)
Aquatic Plant Nutrient Analysis	5 samples per event, total phosphorus and total nitrogen	5 samples per event, total phosphorus and total nitrogen
Surface Water Monitoring	Inlet to Kohlman Lake	Inlets to Beaver Lake
Drone Flyover	Drone flyover to identify % aquatic plant coverage and density	Drone flyover to identify % aquatic plant coverage and density

Sediment Coring Location

KL\_Sed1  
KL\_Sed2  
KL\_Sed3  
KL\_Sed4  
KL\_Sed5  
BL\_Sed1  
BL\_Sed2  
BL\_Sed3  
BL\_Sed4  
BL\_Sed5

Lat

45.025759°  
45.023719°  
45.022759°  
45.024230°  
45.026015°  
44.975323°  
44.972998°  
44.973140°  
44.972437°  
44.970606°

Long

-93.055390°  
-93.055979°  
-93.058453°  
-93.058435°  
-93.057229°  
-93.002237°  
-93.002052°  
-93.005080°  
-93.007035°  
-93.007149°

### Table 2. Timeline and Responsible Parties

[illegible]

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# Administrator's Report

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## MEMO

**TO:** Board of Managers and Staff  
**FROM:** Tina Carstens, Administrator  
**SUBJECT:** June Administrator's Report  
**DATE:** June 22, 2023

### A. Meetings Attended

Saturday, June 3	ALL DAY	WaterFest Event
Tuesday, June 6	9:00 AM	MAWA Executive Committee
	12:00 PM	Employee Right to Know Training
Wednesday, June 7	6:30 PM	Board Meeting
Thursday, June 8	9:00 AM	Water Resources Conference Planning
	1:00 PM	Retrofit Inventory Planning
Tues June 20- Thurs June 22	ALL DAY	Minnesota Waters Summer Tour – Albert Lea
Friday, June 23	11:30 AM	Metro Administrator Meeting

### B. Upcoming Meetings and Dates

Metro Watersheds Meeting	July 18, 2023
August Board Meeting	August 2, 2023
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. Regarding the governance manual, as I was preparing the board packet the file wasn't able to be added due to a critical error with the file. I will work with our IT to recover the file and send it to you when I have it available.

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

The MW Summer Tour was held in the Albert Lea area this week. Paige Ahlborg along with Michael McKinney (Barr Engineering) presented during the education session regarding the street sweeping study and stewardship grant pilot projects for 2023. They did an excellent job on their presentation and had some questions regarding our process and saw a lot of desire from other watersheds to do something similar.

Manager Karp and I were also in attendance for the summer tour from RWMWD.

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

#### **E. Staffing Updates**

Since the last meeting, we have received an accepted offer for our Natural Resources Program Manager position. Paul Erdmann will start at the district on Monday, June 26<sup>th</sup>. Paul was a natural resources intern with us in the 2006 and 2007 seasons. He went on to work at Ramsey Conservation District, Natural Shores, MPCA and most recently at BWSR. In addition, Paul has considerable experience with restoration work at the Bush Lake Chapter of the Isaac Walton League where he lives and manages the site. We are really glad to have Paul back at RWMWD leading our Natural Resources team and work.

It has been a great process and I believe we have really put together a great team to lead our next generation of natural resources work. That is the last of the hiring – for now! I consider us fully staffed but will be talking with the board at future meetings on next steps in our updated organizational chart development.



## Board of Managers Action Log

Wednesday, June 28, 2023

Item	Anticipated Action Date	Means of Action	Completed
Land Acquisition and Use Policy	Summer 2023	Board discussion and approval.	
Adopt-A-Drain Program Evaluation and Promotion	Summer 2023	Presentation and discussion.	
Governance Manual	Summer 2023	Board review and approval.	
West Vadnais Lake Boundary Change	Fall 2023	Board review and approval.	
Alum Use Policy	Fall 2023	Proposed policy 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

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# Project and Program Status Reports

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## Memorandum

**To:** Board of Managers and Staff  
**From:** Tina Carstens and Brad Lindaman  
**Subject:** Project and Program Status Report – June 2023  
**Date:** June 22, 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 has met with the district to present the figures. We have also started to split figures by municipality and develop a memo for each. Barr will make any needed edits to the designs/figures after their review and will work directly with city representatives to communicate the plans to potentially impacted individuals and answer questions about implementation.

#### **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 completed updates to the existing XPSWMM model for the Kohlman Creek drainage area using the survey and record drawings that were collected in the prior months. The model will be used to evaluate the proposed alternatives for flood-risk reduction. Next period, Barr will continue with modeling proposed flood-risk reduction concepts in the XPSWMM model and iterate to find solutions that reduce flood-risk and that are feasible. Barr will also be meeting with RWMWD, North St. Paul, and

Maplewood staff to review the proposed concepts from the Beltline Resiliency Study and gather feedback on these concepts or additional concepts that the cities may have.

**C. Ames Lake area flood risk reduction planning study (Barr project manager: Brandon Barnes; 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 began developing figures for concepts of flood-risk-reduction BMPs on the Saint Paul Housing and Redevelopment Authority (HRA) parcels. Coordination with City of Saint Paul staff has also continued, and we are anticipating a meeting with the City's Water Resource Working Group this summer to present preliminary concepts and solicit feedback. We plan to share initial concepts for City and HRA review later this summer.

**D. Owasso Basin area/North Star Estates improvements (Barr project manager: Sam Redinger; 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.*

Barr has begun planning for geotechnical field investigations to support the final design of system modifications. Initial tasks include reviewing historical soil borings from the early 1990s when the Owasso Basin was constructed. The geotechnical investigation will also include the collection of soil borings to fill in gaps from historical borings. Next month staff will contact the North Star Estates property owner and Saint Paul Regional Water to discuss system improvements on their respective properties and schedule geotechnical investigation activities. We expect design activity to increase in July and continue 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 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. Updates focused on revising subwatershed boundaries and adding model detail to more accurately account for storage and flow routing in areas near potentially flood-prone structures. Subwatershed updates are anticipated to wrap up in June. In July, staff will begin evaluating potential system modifications to reduce flood risk and remove habitable structures from the floodplain. The study is expected to continue through 2023.

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

*The purpose of this study is to provide general support related to implementing a pilot program to incorporate grant-funding support into the District's Stewardship Grant program for enhanced street-sweeping efforts.*

During this period, Barr coordinated with the district regarding development of 2023 street sweeping pilot program recommendations to the Board of Managers. The Board unanimously approved the recommendation at the June 7<sup>th</sup> regular Board meeting. The District and Barr will begin working together to implement the 2023 pilot program over the following months. Additionally, the District and Barr will present the RWMWD study, including a detailed discussion of the 2023 pilot program, at the 2023 Minnesota Watersheds Summer Tour (June 21, 2023).

## Research projects

**G. Kohlman Lake aquatic plants and nutrients: phase I and II (Barr project manager: Keith Pilgrim; RWMWD project manager: Eric Korte)**

*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) and 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 and communication with parties conducting sampling (Barr, RWMWD, and Ramsey County staff). Sediment collected from Kohlman Lake and Beaver Lake were analyzed in the Barr laboratory during this period and drone flyover data from May were processed.

## **H. Shallow lake aeration study (Barr project manager: Keith Pilgrim; RWMWD project manager: Eric Korte)**

*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 include analysis of the results from the porewater sampling and a revision to the monitoring plan.

## **Capital improvements**

### **I. 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.*

Over the past few weeks, Barr finalized the geotechnical subcontract with Haugo Geotechnical Services to complete two soil borings in the proposed filtration basin locations. Barr also coordinated with Target Corporation to finalize the access agreement. The geotechnical investigation is scheduled for Monday, June 26 (assuming no weather delays).

Barr included the Phase 2 schedule and budget summaries in the packet this month for district and board information. Phase 2 includes final design, construction bidding assistance, and construction administration and observations tasks. If the district and board approve the Phase 2 schedule and budget, Barr will start the final design task in mid-July.

### **J. 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). 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 prepared updated designs to support construction documentation which will be further developed in June. Geotechnical investigations that will inform design are underway (concurrent with geotechnical investigations for the Woodbury Target site).

**K. 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 to make way for tiny home communities. Barr has begun to develop construction documents based on concept designs coordinated with the property owner. The church will work with a contractor to build the project as early as Fall 2023.

**L. 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 submittals from Shoreline Landscaping and Contracting, revised the diversion weir design, issued final construction drawings, and finalized the contract. At this time, construction is planned to begin on site later this summer.

**M. 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 continued the conceptual design for stream restoration alternatives for the tributary creek to Double Driveway Pond and Fish Creek. The proposed concepts will be completed within the coming weeks and reviewed by Barr staff and RWMWD staff. Following conceptual design, Barr and RWMWD staff will engage property owners regarding the proposed concepts as well as the potential for purchasing permanent easements over the creek.

## **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 the project and final payment has been submitted. Additional coordination and administration tasks remain to close-out the project in July.

## **O. New technology mini case study (Barr project manager: Marcy Bean; RWMWD project manager: Tina Carstens)**

*The purpose of this project is to educate the board and RWMWD staff on new and interesting technologies and design strategies related to water quality improvement and other issues of concern within the district. The information provided for these new technologies is often based on manufacturer's claims that have not specifically been modeled or tested by district staff or Barr unless explicitly stated as such.*

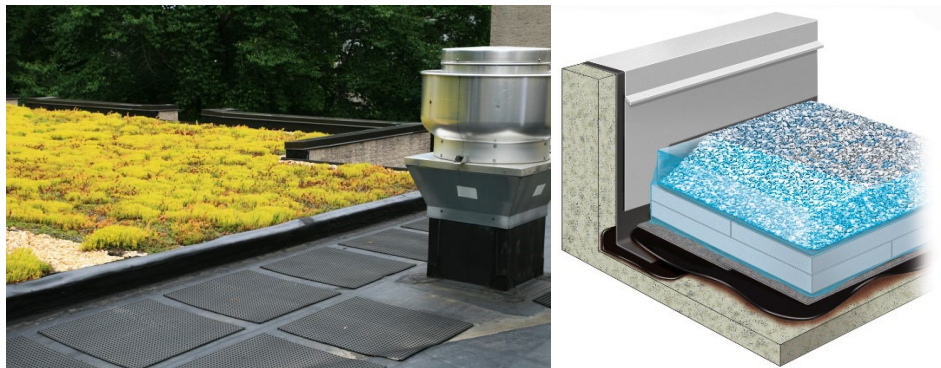
### **Blue Roof Retrofits to mitigate Stormwater Impacts**

#### **What is a Blue Roof?**

A **blue roof** is a roof that is intentionally designed to provide temporary water storage (typically for rainfall) which is gradually released. Blue roofs are constructed on flat or low sloped roofs in urban communities where flooding is a risk due to a lack of permeable surfaces for water to infiltrate. The primary benefit of a blue roof is it can reduce peak storm loading runoff rates.

Blue roofs typically involve one of two types of installation:

- PMR (Protected Membrane Roof) Assembly – More expensive
  - a. Various types of mats or aggregates that cover & protect the roof membrane, as well as slow down runoff rates.



**Types of PMR assemblies**

- Water Roofs - Least expensive
  - b. Low-flow release
  - c. “Weir” high-flow outlet above design retention elevation

### **Why might this be a good idea for MN, and for RWMWD?**

Most roofs in MN are designed to handle some level of snow loads. Northern Minnesota requires a structural load design to handle 42 pounds per square foot (PSF), and southern Minnesota requires a 35 PSF design load for snow load. 35 PSF translates to approximately 6.7" of water. Therefore it is realistic that many existing buildings with flat roofs could be retrofitted with a blue roof system with minimal structural improvements, if any, to handle 1-3" events. Waterproofing & roof system upgrades would be the primary costs for a blue roof retrofit. With proper planning on new constructions, or teardowns and rebuilds, installing blue roof systems can aid in reducing the SF necessary for stormwater facilities, which in turn can increase the amount of parcel space available for the intended site use.

### **Added benefits of a blue roof include:**

1. Reduced heating & cooling costs for the building due to water's inherent insulating characteristics and heat mitigation through evapotranspiration.
2. Reduced heat island effect acting as a more effective heat sink and reflecting sunlight.
3. Improved runoff water quality through reducing erosion and lessening runoff volumes allowing contaminants to settle out before continuing downstream.
4. "Entry-level" storage blue roofs have lower initial cost and maintenance than a green roof.
  - a. As per an article dated 9-21-2017 (found [here](#)), the cost of a blue roof system, added on top of a traditional installation cost, can be under \$1 per square foot. The same article quotes the average green roof in the US at \$15-20 per square foot.
  - b. Cost estimates for green roofs in 2023 are \$15-50 per square foot, depending on the type of green roof installed.

### **Issues impeding Minnesota Implementation**

1. Snow/Freezing concerns: this can be addressed via adjustable systems controlled actively or passively (automation, weather station monitoring)
2. Lack of education on the topic.
  - a. A/E designers need to explore the topic further
  - b. Regulatory officials to be better educated on the topic
  - c. Outreach to the business community needs to increase (especially in terms of applicability on retrofits)



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

### **New Staff and Interns**

We are excited that the Natural Resources team is at full capacity both with full-time staff and interns. Interns Jenni, Ashley, and Katrina, are now fully trained-in and have been crucial to completing site maintenance around the district. Patrick (Pat) Williamson started June 12<sup>th</sup> as the Natural Resources Specialist and has been working closely with Joe to establish the immediate goals and priorities for each restoration site. Joe and Pat are also collaborating to create on-boarding materials for the Program Manager to help get them up-to-speed when they begin later this month.

### **Watering**

One of our most important tasks at the moment is watering the plantings from earlier this spring at Keller Regional Park. Though the native species installed are resistant to drought, they are sensitive to extreme environmental conditions for the first growing season. Because of this, the NR Team is out at least twice a week to water these native plant communities while they establish this summer. We are lucky enough to have partnered with Ramsey County who supplies a water truck and staff to assist us in these efforts.

### **Site Management**

We are in the midst of site maintenance and the team is running at full throttle. We utilize a comprehensive approach to manage invasive and non-native species that includes mechanical, cultural, and chemical methods. The NR team has done a fantastic job utilizing these techniques and have prioritized the needs for many of our restoration sites. Though there is still much work to be done we have been able to keep our heads above water and continue to address our sites in a timely manner.



**Intern Katrina watering plants at Keller Regional Park**

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**An infestation of knapweed at Goodrich Golf Course**



**The same area after the NR team removed knapweed - giving way to a variety of native wildflowers that were being out-competed by knapweed.**



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

### **Embarking on the *Wilderness in the City* Project at Battle Creek Regional Park**



**Left:** L'Etoile du Nord 4th graders plant at the Wilderness in the City project on June 8.



**Right:** Blue Thumb/Metro Blooms staff, Alexandra Zerzan, Becky Rice and David Woods, Urban Roots.

Despite the heat and a drastic shortage of rain, this collaborative effort with funding from Wilderness in the City kicked off in mid-May/early June with the support of Blue Thumb Director, Becky Rice, Jennifer Ehlert, VP of Metro Blooms Design and Build, MN Green Corps intern Alexandra Zerzan, Ramsey-Washington Metro Watershed District Education staff, Sage and Tracy, Urban Roots Conservation Program Director David Woods and his crews. The engagement included that of Ramsey County Natural Resources Manager, Mike Goodnature, six Ramsey County Master Gardeners, two Water Stewards and three L'Etoile du Nord French Immersion fourth and fifth grade classes (80 students) and their teachers. Over a matter of a month and a half, this initiative has catapulted into a public demonstration project of native plants attractive to pollinators including the rusty patched bumblebee in Battle Creek Regional Park that will provide inspiration for the public to emulate projects on a smaller scale in their own yards and neighborhoods. When the project is complete, an area of 6055 square feet will be planted with four species of native grasses, four native species of sedges and 25 different native wildflower species with walking paths around and through these demonstration gardens.

This partnership is challenging the status quo of turf lawns in public parks and providing educational opportunities for the large audiences that frequent this east metro park in our Watershed District. Funding has been secured from Wilderness in the City for a similar second large-scale demonstration project in our Watershed District in Keller Regional Park on the "island" in Maplewood. Both projects will be completed by the end of spring 2024.

## **“Rounding Out the Year” at Round Lake and Keller Creek**



**Photos (left):** Exploring macros from Round Lake. **Center:** Discovering life on Keller Creek from a portage stone pad. **Right:** Studying Round Lake from the boardwalk.

The highlights for the twenty-one classes that planted at Round Lake in May and early June included the additional opportunities to explore the aquatic life and birds that frequent this lush area around Round Lake and to follow the flow of Keller Creek into Round Lake and then into Lake Phalen. Students were excited by the chance to examine the macroinvertebrates, measure the dissolved oxygen and the clarity of the water, discover birds and other aquatic life using binoculars and witness the variety of bird-calls from the lush woods and marshes around this area. Thanks to the funding for the binoculars we purchased through the Minnesota DNR’s No Child Left Inside grant last year, we now have a classroom set to use on these adventures. This month’s fun is finishing off the grant report for the binoculars so we can be reimbursed for this purchase!

## **RWMWD’s Schools Share a Year of Growing and Art at WaterFest 2023**



**(Above left)** Dana Larsen-Ramsay at the CAC table with one of the Weaver Elementary seed packet art winners at WaterFest. **(Center):** A L’Etoile du Nord student volunteer at WaterFest plant table. **Right:** Henriette Bissoy, Science teacher at L’Etoile du Nord helps classes grow dozens of trays of native plants each year for WaterFest and other projects and volunteers for the event. Weaver, Lionsgate and Hazel Park Academy also grew many native seedlings for give-away at WaterFest. **Below left:** Sherry Brooks, retired science teacher at Farnworth returns every year to help us at the plant tables at this event. **Below center:** A wildcat visitor to our plant tables. **Below right:** Start them young learning about plants!





## 2023 Water Steward Cohort Tours Washington and Ramsey County BMPS



A component of the yearly training for new Water Stewards is a tour to different sites in our watershed. This year Angie Hong, Paige Alborg and Wally Wadd, a Washington County Water Steward helped us organize tour stops for the two new Water Stewards, Martha Boyd from East St. Paul and Valley Branch Watershed District's Water Steward, Kim Ury, who is a resident of Oakdale. We started the tour at Washington Conservation District office, eating lunch together and then viewed several of their BMP



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features that include a parking lot made of pavers and an adjacent parking area made from a reinforced product called grassy pave used for overflow parking (above left).

Wally Wadd (photo below left) then met us at the Grove, a church he is a member of in Woodbury where a team from the congregation has been working together to restore native habitat on the church grounds. He introduced this stop by sharing some of the details from the land acknowledgment he and several volunteers from the congregation had created. Another highlight of this stop was witnessing the 250 year old oaks on the church grounds!

Other tour stops included visits to the rain gardens at Woodbury Elementary (photos below right and center with Water Steward and Washington County Master Gardener and tree care advisor Anna Barker) and Target parking lot rain gardens in east St. Paul (above right).



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

### **Content Creation**

#### **Displays and Handouts**

Continuing the project launched in January, Lauren met with design contractor Studio Lola to discuss updated display options for events that could be customized depending on the audience. For example, a display could be changed to appeal to kids and families from one targeted to adults attending a native plant sale. A staff committee will work with Lauren to draft updated handouts covering basic organization information and popular watershed management topics. Lastly, Lauren will work with education and other staff to create interactive activities that can be easily transported to events. The first round of publications is expected to be completed in late summer to early fall.

#### **Video Content**

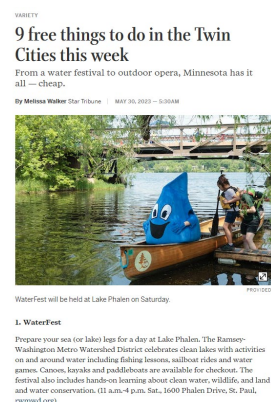
Analytics of our Youtube and Facebook channels show that our most popular videos are short with minimal editing and feature the most visually impactful aspects of our work in the field. For example, the two most consistently viewed videos in any season are "Carp Seining" and "Alum Pond Mixing." We will add animated captions to provide basic information and a link to our website to maximize the success of videos like these. Similarly, formatted videos will be ideal for expanding our "stories" content on both Facebook and Instagram channels, which can reach different audiences than timeline posts. Re-edited and new video content will be added to Facebook, Instagram, and YouTube starting in early July.

#### **Annual Report**

We are working on delivering the annual report to the public as quickly as possible without compromising the document's quality to adjust for a delay due to staff out on leave. This year we will expand the permitting and inspections portion of the document and create a print version to be shared at in-person events and meetings. A copy will be provided to all Board and CAC members as soon as it is completed.

#### **WaterFest**

This year pre-event promotions benefitted greatly from being picked up in local media. Whereas in 2022, we gained local radio airplay and local tv news coverage at no cost, this year, Star Tribune included WaterFest as a featured free event in their Variety section. We will continue to develop ongoing communication with the reporters who contacted us for each story to grow our WaterFest coverage and expand RWMWD's presence in local news. Ads and promotional content placed on the school district PeachJar online backpack system, targeted paid ads on Facebook and Instagram, and banner signage at key street intersections were beneficial again this year. We will look into more year-round cross-promotional opportunities to build excitement for WaterFest among our repeat vendors and attendees.



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### **E-newsletter**

Audience: 1,582

Opens: 40.8%

Link clicks: 3.7%

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

#### **Numbers as of 6/20:**

##### **Facebook**

Reach: 5,688

Engagement(likes, shares, comments): 643

Audience: 1,584

Please note that the Facebook audience number is now based on followers instead of page likes, which was previously tracked on monthly reports to indicate audience size. It is possible to follow a page on Facebook and not "like" it, which is what approximately 200 of our page followers have done. Facebook analytics no longer shows the specific "like" number, opting instead to round up. We have switched to using the number of followers as our audience size indicator because of this change and because it more precisely demonstrates our reach on the channel.

##### **Instagram**

Reach: 548

Engagement: 20

Audience: 781

##### **Twitter**

Reach: 114

Engagement: 4

Audience: 996

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

- Staff/resident communications support
- Vadnais Heights Ice Cream Social engagement, June 21

## **S. Citizen Advisory Committee (CAC) Program – Carrie Magnuson**

The CAC met on June 13<sup>th</sup> at the RWMWD office as well as on Zoom. In attendance were 13 CAC members, 3 staff members, and 1 BOM member (Ben Karp). The following initiatives were discussed and further developed

- 1. Adopt-a-Drain Expansion** –Led by Stephanie Wang, the CAC developed, created, and hosted an interactive table at WaterFest promoting the Adopt a Drain (AAD) program. Attendees could adopt a drain during the event using a tablet the CAC managed for the chance to win a \$100 Visa Gift Card, courtesy of Cliff Aichinger and Maplewood Toyota. Twenty-one new adoptees signed up at WaterFest and many more seemed interested. Remaining key ideas for program implementation:
  - a. Adopt a drain in their neighborhood and be a local advocate (partially complete)
  - b. Assist Sage with sign distribution based on members' home subwatershed
  - c. Consider logistics of an adoptee picnic/recognition event
  - d. Consider logistics of an AAD contest (White Bear Lake did this)
- 2. WaterFest Review** - Many CAC members volunteered their time to support activities at WaterFest 2023. The team reviewed volunteer roles and gave helpful feedback on the event as a whole.
- 3. LEAP** – The Landscape Ecology Award Program is supported by CAC members and a specific subgroup of citizen volunteers. Self-nominations or nominations for other properties within RWMWD are due July 1<sup>st</sup>.
- 4. Work Plan** - Each year, the CAC uses their time and expertise to assist several projects that help advance RWMWD projects and programs. Below are the 2023 priorities.
  - a. Rain Garden/BMP video series: pending
  - b. *East Side Stewardship Relationship Building – Earth Day cleanup completed*
  - c. *Salt Use Outreach/Education – in progress. Sage is developing materials. Stephanie actively attending webinars and contacting cities about tabling at Big Truck Day events.*
  - d. Create Invasive Species Education Pieces: pending
  - e. CAC Rain Garden Clean Up Project: (annual event]
  - f. CAC/LEAP Team Planting (annual event)
  - g. Buckthorn Removal: pending
  - h. Paddle the Phalen Water Trail as a group: pending
  - i. *Assist in planning and hosting WaterFest (completed)*
  - j. LEAP Program nominations and subcommittee (annual)
  - k. Watershed Excellence Awards & Volunteer Recognition Dinner planning (annual)
  - l. Education Topics: Invite RWMWD staff or applicable professionals in to share knowledge. This was done heavily in 2022, so focus on this will be less in 2023.

More details on these discussions will be available on the [CAC website](#) when meeting minutes are approved. Future meetings: September 26<sup>th</sup>, October 24<sup>th</sup>, December 5<sup>th</sup>.