



RAMSEY-WASHINGTON
METRO WATERSHED DISTRICT

June 2021 Board Packet

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Agenda

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Regular Board Meeting Agenda

Wednesday, June 2, 2021

6:30 PM

Due to the COVID19 pandemic, this month's board meeting will be held via the video conferencing platform Zoom. Board members, staff, consultants, and general public will be able to join in via video and/or phone. The public that wish to will be able to listen to meeting but not participate with the exception of the visitor comments portion of the agenda. If you have comments you may speak on the Zoom meeting during the visitor comments agenda item. 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 May 5, 2021 (pg. 7)
 - B. Treasurer's Report and Bill List (pg. 18)
 - C. Permit Program
 - i. 21-14 Kwik Trip, North St. Paul (pg. 34)
 - D. Stewardship Grant Program
 - i. 21-18 CS Grandview Townhomes, native habitat restoration (pg. 38)
 - ii. 21-19 CS O'Neill, rain garden (pg. 40)
 - iii. 21-20 CS Kohlman Chain LVMP Phase 3, harvesting (pg. 42)
 - E. North St. Paul Target Store Retrofit - Change Order No. 1 (pg. 43)
 - F. CIP Maintenance and Repair 2021 – Change Order No. 2 (pg. 49)
4. Visitor Comments (limited to 4 minutes each)
5. Permit Program
 - A. Applications
 - i. Woodbury Edgewood Culvert Replacement, Woodbury (pg. 53)
 - ii. Metro Transit Gold Line Bus Rapid Transit (BRT), Various Cities (pg. 72)
 - B. Victoria Shores Permit Update (pg. 86)
 - C. Enforcement Action Report (pg. 87)
6. Stewardship Grant Program
 - A. Applications – see consent agenda
 - B. Budget Status Update (pg. 90)
7. Presentations and/or Action Items
 - A. **Stormwater Pollution Prevention Plan Annual Report (pg. 92)**

8. Board Issues, Policies and Operation (for discussion at meeting)
 - A. Follow up on Maintenance Strategies, Processes, and Policies
9. Administrator's Report (*pg. 120*)
 - A. Meetings Attended
 - B. Upcoming Meetings and Dates
 - C. Ongoing Updates
 - D. Update: COVID-19 Back to the Office Plans (Staff and Board Meetings)
 - E. Equity, Inclusion, and Belonging Training
 - F. Board Workshop Planning
 - G. District Budget Overview and Process
10. Attorney Report
11. Project and Program Status Reports (*pg. 138*)
 - A. Ongoing Project and Program Updates
 - i. Interim Emergency Response Planning
 - ii. FEMA Flood Mapping Updates
 - iii. Kohlman Creek Flood Risk Reduction Feasibility Study
 - iv. Ames Lake Area Flood Risk Reduction Feasibility Study
 - v. Special Project BMP Monitoring
 - vi. Shallow Lake Aeration Study
 - vii. Phalen Chain of Lakes Changes in Water Quality
 - viii. 2021 Tanners Lake Alum Facility Monitoring
 - ix. Automated Lake Monitoring Systems
 - x. Target Store Stormwater Retrofit Projects
 - xi. Targeted Retrofit Projects
 - xii. Keller Channel Weir and Phalen Outlet Resiliency Modifications
 - xiii. Ryan Drive and Keller Parkway Conveyance Project
 - xiv. Beltline/Battle Creek Tunnel Five-Year Inspection
 - xv. CIP Maintenance and Repair Project 2021
 - xvi. Natural Resources Program Update
 - xvii. Education Program Update
 - xviii. Communications Program Update
 - xix. WaterFest Update
12. Manager Comments and Next Month's Meeting
13. **Adjourn**

Items in **bold signify that an action needs to be taken by the Board.*



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

NOTICE OF BOARD MEETING

Wednesday, June 2, 2021

6:30 PM

Via Web Conference and In Lieu of an In-Person Meeting

Per Minnesota Statute 13D.021, President Lawrence Swope has determined that an in-person meeting of the RWMWD Board of Managers is not practical or prudent given the COVID-19 pandemic. In compliance with Center for Disease Control and Minnesota Department of Health guidance on minimizing potential for spread of the virus, RWMWD will conduct its regular Wednesday, June 2, 2021, meeting at 6:30 p.m. CDT, by web conference and conference call. Members of the public wishing to participate in the meeting may do so by accessing the web-based conference, or by phone.

To access the meeting via webcast, please use this link: <https://us02web.zoom.us/j/86550448371?pwd=ZlA2MlJ6dUJrWU5paU5XZkRDMDV0Zz09>

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 **865 5044 8371**. The meeting password is **874296**. If you have any questions, please contact Tina Carstens at tina.carstens@rwmwd.org.

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Consent Agenda

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**Ramsey-Washington Metro Watershed District
Minutes of Regular Board Meeting
May 5, 2021**

The Regular Meeting of May 5, 2021, was held via Zoom web conferencing. A video recording of the meeting can be found at <https://youtu.be/HzOvRStgrkw>. Video time stamps included after each agenda item in minutes.

PRESENT:

Larry Swope, President
Cliff Aichinger, Vice President
Dianne Ward, Treasurer
Dr. Pam Skinner, Secretary
Val Eisele, Manager

ABSENT:

ALSO PRESENT:

Tina Carstens, District Administrator
Tracey Galowitz, Attorney for District
Nicole Soderholm, Permit Inspector
Dave Vlasin, Project Coordinator
Andy Walz, Lake Owasso Resident
Melissa Elke, Twin Lake Resident
Randee Edmundson, CAC member

Paige Ahlborg, Project Manager
Brad Lindaman, Barr Engineering
Bill Bartodziej, Natural Resource Specialist
Teresa McDonald, Roseville Resident
Burt Johnson, Twin Lake Resident
Koreena Moua, Director of the Boys and Girls Club
Laura Eder, Roseville Resident

1. CALL TO ORDER

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

2. APPROVAL OF AGENDA (0:28)

Motion: Manager Ward moved, Manager Aichinger seconded, to approve the agenda as presented.

A roll call vote was performed:

Manager Aichinger	aye
Manager Skinner	aye
Manager Ward	aye
Manager Eisele	aye
President Swope	aye

Motion carried unanimously.

3. CONSENT AGENDA (1:39)

- A. Approval of Minutes from April 7, 2021
- B. Treasurer's Report and Bill List
- C. Permit Program

- i. 21-12 – Tartan High School Redevelopment Phase II, Oakdale

D. Keller Channel Weir and Phalen Outlet Modifications – Change Order No. 4

E. CIP Maintenance and Repair 2021 – Change Order No. 1

Motion: Manager Aichinger moved, Manager Eisele seconded, to approve the consent agenda as presented.

A roll call vote was performed:

Manager Aichinger	aye
Manager Skinner	aye
Manager Ward	aye
Manager Eisele	aye
President Swope	aye

Motion carried unanimously.

4. VISITOR COMMENTS (4:03)

Burt Johnson, Twin Lake Association, reviewed the goals of the association to ensure that there is not water inundation from West Vadnais Lake, to have an outlet for Twin Lake, and to ensure the long-term water quality and clarity within Twin Lake. He thanked staff and the Board for facilitating the upcoming discussion related to the water quality of Twin Lake. He noted that many residents are planning to attend. He stated that many members of the association have raised concerns with the Mondello Shores development across the railroad tracks. He asked what the District is doing to ensure compliance with the permits granted for that development and to ensure the conditions place upon the permits are being met.

Tina Carstens stated that staff has an inspection policy for permits issued and described that process. She noted that the City of Vadnais Heights also completes inspections. She stated that the District reviews sites for erosion and sediment control during construction and to ensure the approved plans are being followed for grading and construction of the stormwater elements. She stated that the contractor has been very responsive to staff and the project is moving ahead as permitted.

5. PERMIT PROGRAM (10:48)

A. Applications - None

B. Monthly Enforcement Report

During April, seven notices were sent to address: install/maintain perimeter control (2), install/maintain construction entrance (1), sweep streets (1), and stabilize exposed soils (3).

Nicole Soderholm provided an update on the new general MS4 Permit process and noted that her staff report includes a highlight of the changes that were made to the program.

Manager Aichinger asked if the District was responsible for meeting performance standards on items such as bacteria, chlorides and temperatures. Tina Carstens indicated that many of these requirements were for cities, not watershed districts, but we do issue educational materials for items such as pet waste and chloride reduction.

Manager Eisele referenced the White Bear Lake High School south gym project and asked if there is an impact that the project began without District notification. Nicole Soderholm replied that typically when the Board approves a permit there are special provisions associated with the permit. She stated that those provisions do not require design changes and it certainly happens where applicants begin work without submitting all the items specified. She stated that while it is not desirable for that to occur, she does not recall a situation where the District has stopped work and instead reminds the applicant as to what is needed.

6. STEWARDSHIP GRANT PROGRAM (18:13)

A. Applications

Grant #21-14 CS: Boys and Girls Club, Public Art

Paige Ahlborg stated that the proposed public art is planned to be installed near the front entrance at the Boys and Girls Club. She stated that signage would also be installed for the previously completed porous pavement parking area and landscaping. She stated that public art was approved by the Board in 2018 to be part of the stewardship grant program and noted that public art tends to go along with stewardship grant projects or targeted retrofit projects in order to help highlight the work that was completed.

President Swope asked if there are guidelines for the public art program. Tina Carstens replied that a specific public art plan was not developed, but staff presented a plan to incorporate public art into the stewardship grant program funding list. She stated that a policy document was not developed, but noted that staff could work to develop a policy document. She stated that there are criteria staff use to determine whether to bring a request to the Board, but there is not a formal written policy.

President Swope commented that he would find a written policy helpful. He requested that staff work to develop a draft policy to bring back to the Board for review.

Koreena Moua, Branch Director of the Boys and Girls Club, commented that the organization sits on a park dedicated in memory of an officer. She stated that the statue was previously in the back of the park but has been moved to the front in order to make it more visible. She stated that the garden is meant to be a reflection garden for the community. She believed that this would be a way to connect the police and youth of the community. She stated that the parking lot used to flood, and this garden will help to reduce runoff.

Randee Edmundson, CAC member, commented that the Boys and Girls Club and its Youth Leadership met with the CAC and assisted with the Ames Lake project. She stated that this opportunity to install the pervious pavers and garden, together with the sculpture, will help to connect the children with their neighborhood and provide a sense of responsibility and ownership.

Motion: Manager Skinner moved, Manager Aichinger seconded, to approve grant #21-14 CS.

A roll call vote was performed:

Manager Aichinger	aye
Manager Skinner	aye
Manager Ward	aye
Manager Eisele	aye
President Swope	aye

Motion carried unanimously.

Grant #21-15 CS: Nevins, Native Habitat Restoration

Paige Ahlborg provided details on the proposed plan to add native plants to the pond buffer to assist with erosion issues.

Motion: Manager Aichinger moved, Manager Eisele seconded, to approve grant #21-15 CS.

Further discussion: Manager Aichinger asked if the other lots have similar issues with erosion. Paige Ahlborg stated that staff met with a few neighboring property owners and they do not have erosions issues, but have issues with buckthorn and may come back with a request to remove that material and replace with native plants.

Manager Ward asked who owns the pond. Paige Ahlborg commented that she believed it is a city-maintained pond and did not believe this area has a homeowners association.

A roll call vote was performed:

Manager Aichinger	aye
Manager Skinner	aye
Manager Ward	aye
Manager Eisele	aye
President Swope	aye

Motion carried unanimously.

B. Budget Status Update

Paige Ahlborg noted that there is a placeholder for the Twin Lake project at \$180,000 and advised that item will be updated to the amount that will be approved by the Board late on the agenda tonight.

7. BOARD ISSUES, POLICIES, AND OPERATION (32:33)

A. Workshops – Topics, Scheduling, Attendance

President Swope stated that he provided a potential list of topics for upcoming workshops and asked for input.

Manager Aichinger commented that he was confused by some the terms used in the list provided by President Swope and asked for clarification as these presentations will require additional staff time. He noted that some of the topics were related to education and could be presented in a workshop with optional attendance for those that felt they needed more information, while the policy related discussion items should be presented in a workshop to the full Board. He noted that some items would only require a short presentation and could be included in a regular Board meeting. He believed that the workshops should be delayed until in person attendance is available to facilitate better discussion.

Manager Skinner requested that, in the future, things to be discussed at a Board meeting should be included in the Board packet rather than through email. She agreed that most of these topics could be incorporated into regular Board meetings. She stated that she would also like input from the other members of the Board as to whether there are topics they would like to discuss as this list was only provided by President Swope.

President Swope agreed that his intent was to get the ball rolling and other Managers were allowed to submit suggestions prior to the meeting as well. He agreed that some of the items could be included in a regular Board meeting but believed there would be benefit to having some items covered in a workshop setting with both new members and tenured members in order to facilitate better discussion based on the different levels of expertise. He also recognized that would require an additional time commitment from the Board and for staff to prepare. He agreed that it would be preferential to holding workshops in person but noted that would depend upon the discussion that occurs later tonight related to in person attendance.

Manager Ward commented that she thought the list was helpful and seemed to be topics that have come up during different meetings. She agreed with Manager Aichinger that some topics could have optional attendance, perhaps slating thirty minutes before a regular Board meeting to cover some of the education related items and Board members interested in learning more could choose to attend.

Manager Eisele asked for input as to whether there are some topics that could relate to items that may appear on an upcoming agenda that could be prioritized to occur sooner rather than later. He stated that he found a lot of value from conversations with other Managers that helped him to learn more about certain topics and with staff related to modeling. He asked if staff has input on any type of priority.

Tina Carstens commented that she can work with the members of the Board to prioritize the list. She did not see anything jumping out, with the exception of wetlands as that workshop has been discussed for the longest. She agreed that many of the educational topics could have a more robust staff report provided within the Board packet to provide the desired additional information.

Manager Aichinger commented that he did not believe there was urgency on any of the topics. He noted that funding strategies could be covered through a brief memorandum and if there are questions, Managers could bring those forward at the meeting. He noted that many of the other educational topics could be covered in the same manner.

Manager Skinner stated that perhaps modeling would be a priority as Manager Eisele seems to have some ideas to discuss. She stated that while it would be great to have some tours, it could also be helpful to have the new Communications Coordinator video record the tours so that the information could be shared on the District website.

President Swope asked that Managers to provide input on their prioritization of topics along with any other input with the intent that staff provide a draft at the next meeting.

Tina Carstens agreed that if each Manager provided their top three priorities, she could compile that and provide a draft schedule of how those could align with Board meetings. She welcomed any additional questions or comments that Managers may have or information they may be interested in.

Manager Eisele agreed with the suggestion from Manager Skinner to have tours recorded and available for viewing on the website.

B. Website

President Swope commented that the Communications Coordinator has begun reaching out to members of the Board to gather input.

Tina Carstens confirmed that staff would be reaching out to each Board member as well as members of staff and other partners and stakeholders.

C. Budget Categories

President Swope asked the Board to review the budget categories and provide any input as to items they believe may need to be addressed.

Tina Carstens stated that typically she provides a budget presentation to the Board in July, but noted that in June she could provide an earlier presentation to provide additional explanation and discussion on the budget process overall, including the categories.

D. Communication Terminology

President Swope commented that while some terms are common industry terms (such as BMP) he believed that additional explanation of those terms and/or better communication would help to engage the overall community.

Manager Eisele commented that as a new member he began to build his own glossary of terms. He found that some other watersheds have helpful information on their websites that help to explain some of those industry terms that he could share with staff.

8. PRESENTATIONS AND/OR ACTION ITEMS (1:02:53)

A. Twin Lake Shoreline Restoration Accept Bids and Order Project

Paige Ahlborg stated that they were excited to receive four bids back on this project and staff is happy with the low bid as it was lower than expected. She stated that staff reviewed the itemized cost, and the most significant difference was the cost for annual maintenance. She stated that the District has worked with Landbridge in the past on different projects and have no complaints.

Manager Eisele asked if there was an assumptive difference in the cost for annual maintenance as there was a large range on that item between contractors.

Paige Ahlborg replied that the maintenance cost from each contractor was not itemized but the cost from Landbridge was similar to the annual maintenance for the Snail Lake project which had a similar number of homes. She noted that Landbridge did go out and walk the properties and she was unsure if all contractors did that.

Manager Aichinger asked if Twin Lake were to recede in elevation to where it used to be, it would be several feet lower than where it is now and would create a space between the restoration and the new water line. He asked what the plan would be to fill that gap.

Paige Ahlborg stated that the two-year maintenance plan was factored in to address anything that may arise. She noted that a similar situation occurred at Snail Lake and additional plants were added.

Manager Aichinger asked what would happen if the water to recede in five or ten years, whether a new grant application could come forward.

Paige Ahlborg confirmed that would be an option. She noted that if the water level moved slow enough, hopefully the plants could follow on their own.

Motion: Manager Aichinger moved, Manager Ward seconded, to accept the bids and award the Twin Lake Shoreline Restoration Project to Landbridge Ecological, Inc. and direct staff to prepare and mail the notice of award, prepare the agreements, and review the required submittals.

Further discussion: Manager Eisele asked if he should abstain.

Tracey Galowitz agreed that Manager Eisele should abstain as he is participating in this project.

A roll call vote was performed:

Manager Aichinger	aye
Manager Skinner	aye
Manager Ward	aye
Manager Eisele	abstain
President Swope	aye

Motion carried unanimously.

B. Review and Accept the 2020 District Annual Financial Audit (1:08:29)

Tina Carstens stated that each year the audit is completed and advised of the different documents included in the audit from Redpath. She stated that there was a clean opinion and no findings of legal noncompliance. She stated that the audit has been finalized and sent to BWSR and the State Auditor. She welcomed any questions the Board may have.

Motion: Manager Aichinger moved, Manager Skinner seconded, to accept the 2020 Annual Audit Report.

A roll call vote was performed:

Manager Aichinger	aye
Manager Skinner	aye
Manager Ward	aye
Manager Eisele	aye
President Swope	aye

Motion carried unanimously.

C. Presentation: Protecting the Long-Term Viability of District Investments (1:10:12)

Brad Lindaman stated that this presentation is meant to provide details on the CIP maintenance and repair program the District completes to protect the long-term viability of District investments. He welcomed Board input on how things could be done better or the process could be refined. He provided historical background on the program, its creation, and the partnership with local units of government for pond cleanouts. He stated that the District system refers to its CIPs, creeks, lakes, and other general areas of inspection (some of which are owned by others). He stated that there are 38 CIPs or assets included on the inspection list and also reviewed the different creek systems in the District that are reviewed on a routine basis. He also reviewed the common issues and inspection frequency for different creeks, lakes, the Beltline Interceptor, and other key inspection points.

Manager Eisele asked how modeling helps to inform these key inspection points. Dave Vlasin stated that he would not say that a model informs these locations and explained that it is more a list of District projects and other known locations that staff monitor to ensure they are working in a proper way. Brad Lindaman provided additional details on design and standard practices that account for 50-80 percent blockage of trash racks within modeling.

Dave Vlasin noted that because of vegetation growth and other debris items that end up in the water, some areas need to be cleaned after almost every large storm event.

Manager Ward commented that after some projects are completed which change the existing conditions, she has noticed that it takes a bit for things to settle around that area. She asked if there are plans to conduct extra inspections in areas where projects have been completed. Brad Lindaman agreed that there is a recovery process that follows larger projects. He stated that when significant work is done on a CIP project that area is identified for higher frequency inspections for the next year.

Dave Vlasin noted that in highly visible areas there are other sets of eyes and the District often receives calls that alert staff that additional inspection may be necessary.

Brad Lindaman provided additional details on what is involved in the inspection process and the staff that are involved in the inspection process. He explained how the inspection issues are evaluated. He stated that the inspection and maintenance process is ongoing, completing the maintenance needs necessary, identifying additional issues and scheduling future repairs and maintenance.

Manager Eisele commented that he would be interested in going along with staff on an inspection. Dave Vlasin confirmed that could be done. Manager Skinner commented that she would also be interested.

Brad Lindaman reviewed some of the typical maintenance and repair activities. He provided examples of different inspection points throughout the District systems. Additional details were provided related to the tracking of the inspections and the color-coded system that was eventually developed.

Dave Vlasin reviewed the location of key problem trash racks and the number of hours and visits completed in the last year. Brad Lindaman explained that some of the key projects on this list were designed with oversized trash rack systems and redundancy to ensure problems would not arise when the trash rack is blocked.

Dave Vlasin reviewed photographs from different years of inspection, noting that staff used the photographs in the process to monitor critical areas to determine if any changes have occurred over time. He highlighted different situations that staff come across during their inspections.

President Swope asked if there is a formalized process for residents to register problems they may come across, such as a place on the website where residents could submit information. Tina Carstens confirmed that there is a reporting link available on the District website that is used.

Dave Vlasin provided photographs on cattail mats and how staff determines that a cleanout is necessary.

Manager Eisele asked the threshold that would trigger automated flow monitoring. Brad Lindaman stated that the District has not used flow monitoring in that way and typically uses it for water quality purposes. He stated that the issue with cattails is easy to view by driving by and then completing a more complete survey to gather additional information.

Dave Vlasin provided before and after photographs of a cattail removal. He stated that after the cattail removal in this instance a tree fell down and asked for input as to whether the Board would want to see that removed. Brad Lindaman noted that the fallen tree can actually provide benefit in skimming materials that are allowed to pass through to the pipe.

Manager Aichinger commented that there is not a lot of flow in that area and therefore the fallen tree does not seem to have an impact on the flow. Tina Carstens stated that this is a Ramsey County Parks property and therefore staff the County would take ownership of that as it is their property and the District assisted with the cattail removal project.

Dave Vlasin provided additional photographs of different maintenance activities such as trash rack cleaning and permeable weir plugging and other maintained District CIPs and assets.

President Swope referenced the benefit that was mentioned from a fallen tree and asked if that is something that could be considered as part of the design of future projects. Dave Vlasin confirmed that a skimmer was placed in a pond for the similar purpose of skimming debris and keeping it away from the trash rack. Tina Carstens noted that Barr Engineering has also looked at different designs for trash racks, which has come from a need seen through the maintenance program.

Manager Eisele stated that he was very impressed with the manual effort required for the maintenance program. He asked if there are written guidelines for the inspection process as much of it seems to be subjective. Dave Vlasin provided additional details on the document that is completed for each reach of a creek inspection.

President Swope asked for details related to silt in culverts and whether there is an inspection process for that activity. Tina Carstens replied that the culverts that are part of the creek system would be part of the creek inspections. She noted that some culverts are known to fill with silt more often and are inspected more frequently. She stated that the remainder of the culverts are the responsibility of the cities and included in their inspections as part of the MS4 permit.

Manager Ward referenced the form residents can fill out to report a problem and asked if the response is posted to the website. Tina Carstens commented that the response is provided to the resident directly.

9. ADMINISTRATOR'S REPORT (3:02:30)

A. Meetings Attended

No comments.

B. Upcoming Meetings and Dates

No comments.

C. Ramsey County Permitting Follow-Up

Tina Carstens stated that this is in process and staff continues to work on this.

D. Twin Lake Association Meeting

Tina Carstens stated that as mentioned staff will be making a presentation to residents the following Monday.

E. COVID-19 Back to the Office Plans (Staff and Board Meetings)

Tina Carstens stated that she included information within the report on the informal survey she did of similarly sized Districts. She stated that it is proposed that July and August be used as transition months to allow some staff members to begin to return to the office in some capacity. She stated that the day after Labor Day would be targeted as a back to the office time, dependent on the COVID conditions at that time.

Manager Skinner asked if there are thoughts related to the vaccination status of staff prior to returning from work. Tina Carstens stated that she would not want to go down the path of requiring vaccination or report of vaccination staff legally. She commented that the District will continue to follow guidelines for social distancing and mask wearing as recommended by the CDC. She stated that the current policy only allows one staff member per vehicle and staff has asked if two people could be in a vehicle together if they are vaccinated. Manager Skinner commented that CDC regulations would allow that.

Manager Aichinger asked if the District could trust people to say they are vaccinated or whether the vaccination card would have to be shown. He stated that some employers have stated that they can legally require vaccination before returning to work and he was not sure why the District would not be able to do so. He stated that if people are vaccinated, they could then operate freely in the office.

Tracey Galowitz stated that people would have to voluntarily share that information to avoid any concerns with HIPAA.

Manager Skinner stated that perhaps if people are choosing not to be vaccinated, they could sign something voluntarily. Tracey Galowitz stated that there still could be some liability risk related to HIPAA.

Tina Carstens noted that she could follow up with the HR legal services to determine options. She believed staff could return to the office whether or not people are vaccinated as long as social distancing and mask wearing occurs. She stated that the same discussion would apply to Board meetings noting that there would be options to socially distance around the table and use a hybrid approach. She noted that the approach for Board meetings will be reliant on direction from the Governor.

Manager Eisele asked if there would be capability to hold outdoor meetings for the Board. Tina Carstens replied that there would be some logistical details to work out and noted that option would also be dependent upon weather.

President Swope commented that meeting outdoors would be difficult with vehicles driving by as well. He stated that perhaps this discussion continues at the June meeting as it applies to the Board.

President Swope asked for an update on the meeting that was held related to Victoria Shores. Tina Carstens provided an update on the discussion that occurred at that meeting. She also reviewed the review timeline.

F. Watershed Based Implementation Funding and MAWD

Tina Carstens stated that she sent a letter to the Board received from the President of the MAWD Board related to the proposal they will be sending to the Board of Water and Soil Resources (BWSR). She stated that MAWD would like each metro watershed Board to determine if they would like to send their own recommendation to BWSR in support.

Manager Aichinger stated that it appears that MAWD is supporting a system in which the funds would be distributed to Districts with an approved plan and asked how the funds would be calculated for distribution. Tina Carstens replied that is yet to be determined. She stated that during the pilot periods the funds were distributed by percentage of land area. She stated that in essence there are funds available through BWSR for distribution within the metro area. She stated that each organization has its own extensive watershed plan and therefore it was decided that the metro watersheds would not be part of the One Watershed, One Plan (1W1P) process so the money would be distributed differently in the metro area. The provided information from MAWD is a recommendation to BWSR on how the funds should be distributed in the metro area and who should receive the funds.

Motion: Manager Aichinger moved, President Swope seconded, to direct staff to prepare a memorandum of support for the MAWD recommended approach and authorize President Swope to execute and approve the memorandum.

A roll call vote was performed:

Manager Aichinger	aye
Manager Skinner	aye
Manager Ward	aye
Manager Eisele	aye
President Swope	aye

Motion carried unanimously.

10. ATTORNEY REPORT

Tracey Galowitz had nothing further to report.

11. PROJECT AND PROGRAM STATUS REPORTS

A. Ongoing Project and Program Updates

i. Response to Question: XP-SWMM Model Update and Permitting

President Swope was unsure this addressed the comments of the resident. He believed the resident was asking why the area is behaving so much differently than it did before and whether the modeling contained data that would inform why the area is behaving differently.

Manager Aichinger commented that the data provided is accurate. He commented that the resident appears to believe that the development in the area has impacted the area, but the changes were not a result of development. Tina Carstens stated that the write up was in response to the Board's questions that followed the resident comments. She indicated she can follow up on this item with the resident.

Manager Eisele stated that if the Board holds a workshop on modeling, perhaps an invitation be extended to the commenter.

- ii. Interim Emergency Response Planning
- iii. FEMA Flood Mapping Updates
- iv. Kohlman Creek Flood Risk Reduction Feasibility Study
- v. Ames Lake Area Flood Risk Reduction Feasibility Study
- vi. Grass Lake Berm Wetland Mitigation
- vii. Special Project BMP Monitoring
- viii. Shallow Lake Aeration Study
- ix. Phalen Chain of Lakes Changes in Water Quality
- x. Automated Lake Monitoring Systems
- xi. Target Store Stormwater Retrofit Projects
- xii. Targeted Retrofit Projects
- xiii. Keller Channel Weir and Phalen Outlet Resiliency Modifications
- xiv. Ryan Drive and Keller Parkway Conveyance Project
- xv. Beltline/Battle Creek Tunnel Five Year Inspection
- xvi. CIP Maintenance and Repair Project 2021
- xvii. Natural Resources Program Update
- xviii. Education Program Update
- xix. Communications Program Update
- xx. Citizens Advisory Committee Update
- xxi. WaterFest Update

12. MANAGER COMMENTS AND NEXT MONTH'S MEETING

President Swope noted that the public art policy, budget categories and workshop categories would appear on the next agenda.

13. ADJOURN

Motion: Manager Skinner moved, Manager Aichinger seconded, to adjourn the meeting at 10:06 p.m.

A roll call vote was performed:

Manager Aichinger	aye
Manager Skinner	aye
Manager Ward	aye
Manager Eisele	aye
President Swope	aye

Motion carried unanimously.

RWMWD BUDGET STATUS REPORT
Administrative & Program Budget
Fiscal Year 2021
5/31/2021

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	\$8,500.00	-	-	875.00	\$7,625.00	10.29%
	Manager expenses	4360	3,500.00	-	-	-	3,500.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	331.00	1,578.13	1,921.87	45.09%
	Sub-Total: Managers/Committees:		\$15,500.00	\$0.00	\$331.00	\$2,453.13	\$13,046.87	15.83%
Employees	Staff salary/taxes/benefits	4010	1,520,000.00	-	122,200.82	654,825.83	865,174.17	43.08%
	Employee expenses	4020	15,000.00	-	682.02	1,621.93	13,378.07	10.81%
	District training & education	4350	75,000.00	-	146.50	2,248.50	72,751.50	3.00%
	Sub-Total: Employees:		\$1,610,000.00	\$0.00	\$123,029.34	\$658,696.26	\$951,303.74	40.91%
Administration/Office	GIS system maint. & equip.	4170	10,000.00	-	728.03	1,715.05	8,284.95	17.15%
	Data Base/GIS Maintenance	4171	40,000.00	-	-	-	40,000.00	0.00%
	Equipment maintenance	4305	3,000.00	-	-	-	3,000.00	0.00%
	Telephone	4310	8,000.00	-	57.48	287.40	7,712.60	3.59%
	Office supplies	4320	7,000.00	-	42.96	1,955.20	5,044.80	27.93%
	IT/Internet/Web Site/Software Lic.	4325	70,000.00	-	5,054.85	27,381.69	42,618.31	39.12%
	Postage	4330	3,000.00	-	99.49	243.04	2,756.96	8.10%
	Printing/copying	4335	8,000.00	-	294.00	1,837.00	6,163.00	22.96%
	Dues & publications	4338	11,000.00	-	(61.12)	8,053.88	2,946.12	73.22%
	Janitorial/Trash Service	4341	15,000.00	-	1,197.49	5,131.59	9,868.41	34.21%
	Utilities/Bldg.Contracts	4342	30,000.00	-	221.22	5,829.27	24,170.73	19.43%
	Bldg/Site Maintenance	4343	150,000.00	-	1,004.60	18,251.02	131,748.98	12.17%
	Miscellaneous	4390	5,000.00	-	-	-	5,000.00	0.00%
	Insurance	4480	50,000.00	-	-	35,722.00	14,278.00	71.44%
	Office equipment	4703	150,000.00	-	4,926.22	173,844.22	(23,844.22)	115.90%
	Vehicle lease, maintenance	4810-40	43,000.00	-	321.43	1,323.34	41,676.66	3.08%
	Sub-Total: Administration/Office:		\$603,000.00	\$0.00	\$13,886.65	\$281,574.70	\$321,425.30	46.70%
Consultants/Outside Services	Auditor/Accounting	4110	65,000.00	-	1,730.53	13,297.86	51,702.14	20.46%
	Engineering-administration	4121	93,000.00	-	4,323.50	26,840.50	66,159.50	28.86%
	Engineering-permit I&E	4122	10,000.00	-	-	-	10,000.00	0.00%
	Engineering-eng. review	4123	55,000.00	-	3,864.00	23,666.50	31,333.50	43.03%
	Engineering-permit review	4124	55,000.00	-	5,517.50	18,443.50	36,556.50	33.53%
	Project Feasibility Studies	4129	440,000.00	-	20,578.64	65,172.64	374,827.36	14.81%
	Attorney-permits	4130	10,000.00	-	-	-	10,000.00	0.00%
	Attorney-general	4131	40,000.00	-	2,378.00	15,173.25	24,826.75	37.93%
	Outside Consulting Services	4160	20,000.00	-	-	-	20,000.00	0.00%
	Sub-Total: Consultants/Outside Services:		\$788,000.00	\$0.00	\$38,392.17	\$162,594.25	\$625,405.75	20.63%
Programs	Educational programming	4370	60,000.00	-	516.77	916.95	59,083.05	1.53%
	Communications & Marketing	4371	25,000.00	-	649.00	1,774.00	23,226.00	7.10%
	Events	4372	50,000.00	-	8,549.00	14,106.32	35,893.68	28.21%
	Water QM-Engineering	4520-30	180,000.00	-	7,861.26	39,058.63	140,941.37	21.70%
	Project operations	4650	200,000.00	-	8,397.07	45,765.71	154,234.29	22.88%
	SLMP/TMDL Studies	4661	103,000.00	-	-	-	103,000.00	0.00%
	Natural Resources/Keller Creek	4670-72	140,000.00	-	327.26	12,163.20	127,836.80	8.69%
	Outside Prog.Support/Weed Mgmt.	4683-84	127,000.00	-	3,175.00	17,425.00	109,575.00	13.72%
	Research Projects	4695	95,000.00	-	5,307.85	18,465.40	76,534.60	19.44%
	Health and Safety Program	4697	3,000.00	-	165.76	2,834.24	-	5.53%
	Sub-Total: Programs:		\$983,000.00	\$0.00	\$34,783.21	\$149,840.97	\$833,159.03	15.24%
GENERAL FUND TOTAL			\$3,999,500.00	\$0.00	\$210,422.37	\$1,255,159.31	\$2,744,340.69	31.38%
CIP's	CIP Project Repair & Maintenance	516	1,325,000.00	-	127,230.04	440,734.80	884,265.20	33.26%
	Targeted Retrofit Projects	518	2,810,000.00	-	12,126.50	77,538.93	2,732,461.07	2.76%
	Flood Risk Reduction Fund	520	4,200,000.00	-	142,107.43	1,098,306.59	3,101,693.41	26.15%
	Debt Services-96-97 Beltline/MM/Battle Creek	526	394,901.00	-	-	282,532.15	112,368.85	71.55%
	Stewardship Grant Program Fund	529	1,000,000.00	-	6,034.60	50,104.70	949,895.30	5.01%
	Wetland Restoration Projects	540	500,000.00	-	-	-	500,000.00	0.00%
	Wakefield Park Project	553	-	-	-	3,420.00	(3,420.00)	---
	District Office Bond Payment	585	194,885.00	-	-	-	194,885.00	0.00%
CIP BUDGET TOTAL			\$10,424,786.00	-	\$287,498.57	\$1,952,637.17	\$8,472,148.83	18.73%
TOTAL BUDGET			\$14,424,286.00	\$0.00	\$497,920.94	\$3,207,796.48	\$11,216,489.52	22.24%

Current Fund Balances:

Fund:	Beginning Fund Balance @ 12/31/20	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Fund Balance @ 05/31/21
101 - General Fund	\$4,364,963.52	-	15,902.74	210,422.37	1,255,159.31	3,125,706.95
516 - CIP Project Repair & Maintenance	627,656.44	-	46,521.00	127,230.04	440,734.80	233,442.64
518 - Targeted Retrofit Projects	1,012,501.35	-	238.87	12,126.50	77,538.93	935,201.29
520 - Flood Damage Reduction Fund	3,312,849.57	-	-	142,107.43	1,098,306.59	2,214,542.98
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	949,395.60	-	-	-	282,532.15	666,863.45
529 - Stewardship Grant Program Fund	622,020.57	-	-	6,034.60	50,104.70	571,915.87
540 - Wetland Restoration Projects	-	-	-	-	-	0.00
553 - Wakefield Park Project	151,270.20	-	-	-	3,420.00	147,850.20
580 - Contingency Fund	891,682.00	-	-	-	-	891,682.00
585 - Certificates of Participation	204,397.98	-	-	-	-	204,397.98
Total District Fund Balance	\$12,136,737.23	\$0.00	\$ 62,662.61	\$ 497,920.94	\$3,207,796.48	\$8,991,603.36

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From May 1, 2021 to May 31, 2021

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	05/01/21	met008	June 2021	MetLife Group Benefits	Employee Benefits	\$1,585.09
EFT	05/14/21	hea002	June 2021	HealthPartners	Employee Benefits	11,560.27
72219	05/11/21	aws001	S1335957-050121	AWS Service Center	Janitorial/Trash Service	235.57
72220	05/11/21	bat002	P38977191	Batteries Plus Bulbs	Water QM Staff	107.85
72220V	05/24/21	bat002	P38977191	Batteries Plus Bulbs	Water QM Staff	(107.85)
72221	05/11/21	hom001	4051888	Home Depot Credit Services	Natural Resources Projects	29.97
72222	05/11/21	nar001	INV00170567	Nardini Fire Equipment	Bldg./Site Maintenance	170.45
72223	05/11/21	pre003	318122099	Premium Waters, Inc.	Utilities/Bldg. Contracts	26.00
72224	05/11/21	rpz001	07230	RPZ Testing Services	Water QM Staff	130.00
72225	05/11/21	sch009	26848	Schlomka Services, LLC	Construction Imp.-Maint & Rep.	2,950.00
72226	05/11/21	usb005	442233276	US Bank Equipment Finance	Printing Expense	294.00
72227	05/26/21	ada002	3294649	Adam's Pest Control, Inc.	Bldg./Site Maintenance	79.00
72228	05/26/21	att002	28725663401X05252021	AT & T Mobility - ROC	Water QM Staff	105.90
72229	05/26/21	aws001	S1335957-04121	AWS Service Center	Janitorial/Trash Service	480.96
72230	05/26/21	bar001	April/May 2021	Barr Engineering	April/May Engineering Expense	103,713.50
72231	05/26/21	bar004	May 2021	Deborah Barnes	Employee Reimbursement	240.00
72232	05/26/21	cad001	17509004	Allstream	Water QM Staff	74.08
72233	05/26/21	cit011	230060	City of Roseville	IT/Website/Software	4,958.78
72234	05/26/21	com004	May 2021	Comcast	Utilities/Bldg. Contracts	79.07
72235	05/26/21	fit001	Prog.Pay #3	Fitzgerald Excavating & Trucking, Inc.	Progress Pay #3	100,139.39
72236	05/26/21	fit002	May 2021	Mary Fitzgerald	Employee Reimbursement	52.88
72237	05/26/21	gal001	May 2021	Galowitz Olson, PLLC	May Legal Fees	2,378.00
72238	05/26/21	haw001	494509	Hawkins, Inc.	Water QM Staff	5,442.50
72239	05/26/21	ing002	2021-600333	INGCO International, Inc.	Communications & Marketing	200.00
72240	05/26/21	inn002	CIN101287	Innovative Office Solutions LLC	Office Equipment	1,792.72
72241	05/26/21	inn003	9092	Innovational Water Solutions, Inc.	Bldg./Site Maintenance	221.40
72242	05/26/21	int001	W21040504	Office of MN, IT Services	Telephone Expense	57.48
72243	05/26/21	int003	178625	Intereum, Inc.	Office Equipment	2,773.85
72244	05/26/21	kil001	W15657	Killmer Electric Co., Inc.	Construction-Flood Damage	402.50
72245	05/26/21	kob001	May 2021	Julia R. Kobilka	Employee Reimbursement	57.82
72246	05/26/21	kub001	May 2021	Kyle W. Kubitza	Employee Reimbursement	217.80
72247	05/26/21	mbc001	1102	MB Consulting	Events	5,000.00
72248	05/26/21	mel001	May 2021	Michelle L. Melser	Employee Reimbursement	425.14
72249	05/26/21	ncp001	May 2021	NCPERS Group Life Ins.	Employee Benefits	16.00
72250	05/26/21	nsp001	71009180	Xcel Energy	Water QM/Utilities/Flood Damage	445.00
72251	05/26/21	pac001	21100329841	Pace Analytical Services, Inc.	Water QM Staff	826.00
72252	05/26/21	pas002	April/May 2021	Sage Passi	Employee Reimbursement	171.01
72253	05/26/21	pem002	Prog. Pay #5	Pember Companies	Construction-Flood Damage	127,891.18
72254	05/26/21	pur001	May 2021	Purchase Power	Postage Expense	99.49
72255	05/26/21	qwe001	May 2021	CenturyLink	Project Operations	247.07
72256	05/26/21	red002	150462139	Redpath & Company	April Accounting Services	1,730.53
72257	05/26/21	shi001	B12910972	SHI International Corp.	Office Equipment	205.00
72258	05/26/21	sim001	Mar-May 2021	Emily Simmons	Employee Reimbursement	215.88
72259	05/26/21	sod001	May 2021	Nicole Soderholm	Employee Reimbursement	78.08
72260	05/26/21	sto003	May 2021	Michael J Stoffel	Employee Reimbursement	53.90
72261	05/26/21	tim002	M26445	Timesaver Off-Site Secretarial, Inc.	Committee/Board Meeting Expense	331.00
72262	05/26/21	tro002	21-05	Cathy Troendle	Education Program	502.80
72263	05/26/21	usb002	May 2021	U.S. Bank	Monthly Credit Card Expense	2,854.74
72264	05/26/21	voy001	8692934232122	US Bank Voyager Fleet Sys.	Vehicle Expense	321.43
72265	05/26/21	was002	5212	Washington Conservation District	Outside Support/WQ/Stewardship	3,869.25
72266	05/26/21	wil002	55784	Wilderness Inquiry	Events	750.00
72267	05/26/21	joe002	May 2021	Joe's Sporting Goods	Events	2,799.00
Total						<u>\$389,281.48</u>

Ramsey Washington Metro Watershed Dist.
Check Register
For the Period From May 1, 2021 to May 31, 2021

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	04/02/21	myp001	04/02/21	April 2nd Payroll Fees	4110-101-000	\$71.60
EFT	04/16/21	myp001	04/16/21	April 16th Payroll Fees	4110-101-000	69.65
EFT	04/30/21	myp001	04/30/21	April 30th Payroll Fees	4110-101-000	67.70
Dir.Dep.	05/14/21	---	Payroll Expense-Net	May 14th Payroll	4010-101-000	29,030.57
EFT	05/14/21	int002	Internal Rev.Serv.	May 14th Federal Withholding	2001-101-000	10,054.12
EFT	05/14/21	mnd001	MN Revenue	May 14th State Withholding	2003-101-000	1,863.82
EFT	05/14/21	per001	PERA	May 14th PERA	2011-101-000	6,263.10
EFT	05/14/21	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,645.00
EFT	05/14/21	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	450.00
Dir.Dep.	05/28/21	---	Payroll Expense-Net	May 28th Payroll	4010-101-000	31,602.21
EFT	05/28/21	int002	Internal Rev.Serv.	May 28th Federal Withholding	2001-101-000	11,008.64
EFT	05/28/21	mnd001	MN Revenue	May 28th State Withholding	2003-101-000	2,094.34
EFT	05/28/21	per001	PERA	May 28th PERA	2011-101-000	6,263.10
EFT	05/28/21	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	2,645.00
EFT	05/28/21	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	450.00
Payroll/Benefits:						<u>\$104,578.85</u>
Total	Accounts Payable/Payroll/Benefits:					<u>\$493,860.33</u>

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From May 1, 2021 - May 31, 2021

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
05/01/21	EFT	met008	MetLife-Group Benefits	4040-101-000	Employee Benefits-General	\$1,585.09	
05/14/21	EFT	hea002	HealthPartners	4040-101-000	Employee Benefits-General	11,560.27	
05/11/21	72219	aws001	AWS Service Center	4341-101-000	Janitorial/Trash Service	235.57	
05/11/21	72220	bat002	Batteries Plus Bulbs	4530-101-000	Water QM Staff-General	107.85	
05/24/21	72220V	bat002	Batteries Plus Bulbs	4530-101-000	Water QM Staff-General	(107.85)	
05/11/21	72221	hom001	Home Depot Credit Services	4670-101-000	Natural Resources Project-General	29.97	
05/11/21	72222	nar001	Nardini Fire Equipment	4343-101-000	Bldg./Site Maintenance	170.45	
05/11/21	72223	pre001	Premium Waters, Inc.	4342-101-000	Utilities/Bldg. Contracts	26.00	
05/11/21	72224	rpz001	RPZ Testing Services	4530-101-000	Water QM Staff-General	130.00	
05/11/21	72225	sch009	Schlomka Services, LLC	4630-516-000	Construction Imp.-Maint & Rep.	2,950.00	
05/11/21	72226	usb005	US Bank Equipment Finance	4335-101-000	Printing-General	294.00	
05/26/21	72227	ada002	Adam's Pest Control, Inc.	4343-101-000	Bldg./Site Maintenance	79.00	
05/26/21	72228	att002	AT & T Mobility - ROC	4530-101-000	Water QM Staff-General	105.90	
05/26/21	72229	aws001	AWS Service Center	4341-101-000	Janitorial/Trash Service	480.96	
05/26/21	72230	bar001	Barr Engineering			103,713.50	
				4121-101-000	Engineering Admin-General Fund		4,323.50
				4129-101-000	Project Feasability-General		4,612.00
				4123-101-000	Engineering-Review		3,864.00
				4129-101-000	Project Feasability-General		6,556.43
				4129-101-000	Project Feasability-General		2,062.50
				4129-101-000	Project Feasability-General		1,889.21
				4129-101-000	Project Feasability-General		3,863.50
				4129-101-000	Project Feasability-General		1,595.00
				4520-101-000	Water QM-Engineering		576.00
				4124-101-000	Engineering-Permit Review		5,517.50
				4695-101-000	Research Projects-General		195.00
				4695-101-000	Research Projects-General		1,076.00
				4695-101-000	Research Projects-General		4,036.85
				4650-101-000	Engineering-Project Operations		8,150.00
				4128-518-000	Engineering-School/Commer Retrofit		1,958.00
				4128-518-000	Engineering-School/Commer Retrofit		7,877.00
				4128-518-000	Engineering-School/Commer Retrofit		390.00
				4128-518-000	Engineering-School/Commer Retrofit		1,852.00
				4682-529-000	Stewardship Grant Fund		5,462.60
				4128-518-000	Engineering-School/Commer Retrofit		49.50
				4128-520-000	Engineering-Flood Damage		11,650.76
				4128-520-000	Engineering-Flood Damage		2,015.50
				4128-516-000	Engineering-Maint. & Repair		11,790.97
				4128-516-000	Engineering-Maint. & Repair		6,556.82
				4128-516-000	Engineering-Maint. & Repair		5,792.86
05/26/21	72231	bar004	Deborah Barnes	4040-101-000	Employee Benefits-General	240.00	
05/26/21	72232	cad001	Allstream	4530-101-000	Water QM Staff-General	74.08	
05/26/21	72233	cit011	City of Roseville	4325-101-000	IT/Website/Software	4,958.78	
05/26/21	72234	com004	Comcast	4342-101-000	Utilities/Bldg. Contracts	79.07	
05/26/21	72235	fit001	Fitzgerald Excavating & Trucking, Inc.	4630-516-000	Construction Imp.-Maint. & Repair	100,139.39	
05/26/21	72236	fit002	Mary Fitzgerald			52.88	
				4020-101-000	Employee Expenses-General		12.88
				4040-101-000	Employee Benefits-General		40.00

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From May 1, 2021 - May 31, 2021

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
05/26/21	72237	gal001	Galawitz Olson, PLLC	4131-101-000	Attorney General-General	2,378.00	
05/26/21	72238	haw001	Hawkins, Inc.	4530-101-000	Water QM Staff-General	5,442.50	
05/26/21	72239	ing002	INGCO International, Inc.	4371-101-000	Communications & Marketing	200.00	
05/26/21	72240	inn002	Innovative Office Solutions, LLC	4703-101-000	Office Equipment-General	1,792.72	
05/26/21	72241	inn003	Innovational Water Solutions, Inc.	4343-101-000	Bldg./Site Maintenance	221.40	
05/26/21	72242	int001	Office of MN, IT Services	4310-101-000	Telephone-General	57.48	
05/26/21	72243	int003	Intereum, Inc.	4703-101-000	Office Equipment-General	2,773.85	
05/26/21	72244	kil001	Killmer Electric Co., Inc.	4630-520-000	Construction-Flood Damage	402.50	
05/26/21	72245	kob001	Julia R., Kobilka			57.82	
				4670-101-000	Natural Resources Project-General		10.22
				4020-101-000	Employee Expenses-General		47.60
05/26/21	72246	kub001	Kyle W. Kubitza			217.80	
				4020-101-000	Employee Expenses-General		146.72
				4530-101-000	Water QM Staff-General		71.08
05/26/21	72247	mbc001	MB Consulting	4372-101-000	Events	5,000.00	
05/26/21	72248	mel001	Michelle L. Melser			425.14	
				4040-101-000	Employee Benefits-General		40.00
				4343-101-000	Bldg./Site Maintenance		325.00
				4020-101-000	Employee Expenses-General		60.14
05/26/21	72249	nep001	NCPERS Group Life Ins.	4040-101-000	Employee Benefits-General	16.00	
05/26/21	72250	nsp001	Xcel Energy			445.00	
				4342-101-000	Utilities/Bldg. Contracts		116.15
				4530-101-000	Water QM Staff-General		181.36
				4650-520-000	Project Operations-Flood		147.49
05/26/21	72251	pac001	Pace Analytical Services, Inc.	4530-101-000	Water QM Staff-General	826.00	
05/26/21	72252	pas002	Sage Passi			171.01	
				4020-101-000	Employee Expenses-General		117.04
				4040-101-000	Employee Benefits-General		40.00
				4370-101-000	Educational Program-General		13.97

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From May 1, 2021 - May 31, 2021

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
05/26/21	72253	pem002	Pember Companies	4630-520-000	Construction-Flood Damage	127,891.18	
05/26/21	72254	pur001	Purchase Power	4330-101-000	Postage-General	99.49	
05/26/21	72255	qwe001	CenturyLink	4650-101-000	Project Operations	247.07	
05/26/21	72256	red002	Redpath & Company, Ltd.	4110-101-000	Auditor/Accounting	1,730.53	
05/26/21	72257	shi001	SHI International Corp.	4703-101-000	Office Equipment-General	205.00	
05/26/21	72258	sim001	Emily Simmons	4020-101-000	Employee Expenses-General	215.88	
05/26/21	72259	sod001	Nicole Soderholm			78.08	
				4040-101-000	Employee Benefits-General		40.00
				4020-101-000	Employee Expenses-General		38.08
05/26/21	77260	sto003	Michael J. Stoffel			53.90	
				4670-101-000	Natural Resources Project-General		10.22
				4020-101-000	Employee Expenses-General		43.68
05/26/21	72261	tim002	Timesaver Off-Site Secretarial, Inc.	4365-101-000	Committee/Board Meeting Expense	331.00	
05/26/21	72262	tro002	Cathy Troendle	4370-101-000	Educational Program-General	502.80	
05/26/21	72263	usb002	U.S. Bank			2,854.74	
				4343-101-000	Bldg./Site Maintenance		73.03
				4320-101-000	Office Supplies-General		42.96
				4343-101-000	Bldg./Site Maintenance		135.72
				4325-101-000	IT/Website/Software		96.07
				4670-101-000	Natural Resources Project-General		(3,059.00)
				4670-101-000	Natural Resources Project-General		3,079.99
				4371-101-000	Marketing & Communications		65.00
				4530-101-000	Water QM Staff-General		99.99
				4703-101-000	Office Equipment-General		104.72
				4670-101-000	Natural Resources Project-General		95.88
				4341-101-000	Janitorial/Trash Service		480.96
				4350-101-000	Training & Education		146.50
				4530-101-000	Water QM Staff-General		34.00
				4170-101-000	GIS System Maintenance & Equipment		728.03
				4371-101-000	Marketing & Communications		384.00
				4703-101-000	Office Equipment-General		49.93
				4670-101-000	Natural Resources Project-General		159.98
				4530-101-000	Water QM Staff-General		198.10
				4338-101-000	Dues & Publications-General		(61.12)
05/26/21	72264	voy001	US Bank Voyager Fleet System	4830-101-000	Vehicle Fuel-General	321.43	
05/26/21	72265	was002	Washington Conservation District			3,869.25	
				4683-101-000	Outside Program Support		3,175.00
				4530-101-000	Water QM Staff-General		122.25
				4682-529-000	Stewardship Grant Fund		572.00
05/26/21	72266	win002	Windmill Strategy	4372-101-000	Events	750.00	
05/26/21	72267	joe002	Joe's Sporting Goods	4372-101-000	Events	2,799.00	
Accounts Payable Total:						\$389,281.48	

Ramsey Washington Metro Watershed Dist.
Cash Disbursements Journal
For the Period From May 1, 2021 - May 31, 2021

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
EFT	04/02/21	myp001	Payroll Fees	4110-101-000	April 2nd Payroll Fees	\$71.60	
EFT	04/16/21	myp001	Payroll Fees	4110-101-000	April 16th Payroll Fees	69.65	
EFT	04/30/21	myp001		4110-101-000	April 30th Payroll Fees	67.70	
Dir.Dep.	05/14/21	---	Payroll Expense-Net	4010-101-000	May 14th Payroll	29,030.57	
EFT	05/14/21	int002	Internal Rev.Serv.	2001-101-000	May 14th Federal Withholding	10,054.12	
EFT	05/14/21	mnd001	MN Revenue	2003-101-000	May 14th State Withholding	1,863.82	
EFT	05/14/21	per001	PERA	2011-101-000	May 14th PERA	6,263.10	
EFT	05/14/21	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,645.00	
EFT	05/14/21	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	450.00	
Dir.Dep.	05/28/21	---	Payroll Expense-Net	4010-101-000	May 28th Payroll	31,602.21	
EFT	05/28/21	int002	Internal Rev.Serv.	2001-101-000	May 28th Federal Withholding	11,008.64	
EFT	05/28/21	mnd001	MN Revenue	2003-101-000	May 28th State Withholding	2,094.34	
EFT	05/28/21	per001	PERA	2011-101-000	May 28th PERA	6,263.10	
EFT	05/28/21	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	2,645.00	
EFT	05/28/21	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	450.00	
Payroll/Benefits						\$104,578.85	
TOTAL:						\$493,860.33	




Summary of Professional Engineering Services During the Period
April 17, 2021 through May 14, 2021

	Total Engineering Budget (2021)	Total Fees to Date (2021)	Budget Balance (2021)	Fees During Period	District Accounting Code	Plan Implementation Task Number
Engineering Administration						
General Engineering Administration	\$76,000.00	\$26,840.50	\$49,159.50	\$4,323.50	4121-101	DW-13
RWMWD Health and Safety/ERTK Program	\$2,000.00	\$0.00	\$2,000.00		4697-101	DW-13
Educational Program/Educational Forum Assistance	\$20,000.00	\$17,120.00	\$2,880.00	\$4,612.00	4129-101	DW-11
Engineering Review						
Engineering Review	\$55,000.00	\$23,666.50	\$31,333.50	\$3,864.00	4123-101	DW-13
Project Feasibility Studies						
Interim emergency response plan funds for top priority District flooding areas	\$60,000.00	\$15,648.43	\$44,351.57	\$6,556.43	4129-101	DW-19
Groundwater/Surface Water Next Steps	\$50,000.00	\$0.00	\$50,000.00		4129-101	DW-16
FEMA Flood Mapping Update (2020)	\$109,720.00	\$85,879.50	\$23,840.50	\$2,062.50	4129-101	DW-9
Hillcrest Golf Course (multi-use)	\$20,000.00	\$90.00	\$19,910.00	\$0.00	4129-101	DW-6
Gold BRT planning	\$20,000.00	\$0.00	\$20,000.00	\$0.00	4129-101	DW-6
Kohlman Creek flood damage reduction feasibility study	\$75,000.00	\$4,761.71	\$70,238.29	\$1,889.21	4129-101	DW-9, BELT-3
Grass Lake Berm Wetland	\$35,000.00	\$5,874.00	\$29,126.00	\$3,863.50	4129-101	
Ames Lake Technical Assistance and Project Planning with St. Paul	\$25,000.00	\$7,158.50	\$17,841.50	\$1,595.00	4129-101	DW-9, BELT-3
Battle Creek PFAS (monitoring, source ID, meetings, communications)	\$25,000.00	\$0.00	\$25,000.00		4129-101	DW-10
694/494/94 WQ treatment feasibility study	\$30,000.00	\$0.00	\$30,000.00		4129-101	BCL-3
Subwatershed feasibility studies for At-Risk creeks (Fish Creek and Gervais Creek)	\$35,000.00	\$0.00	\$35,000.00		4129-101	DW-1, DW-2, DW-6
Wetland Restoration Workshop, Education, and Planning	\$25,000.00	\$0.00	\$25,000.00		4129-101	DW-8
Contingency*	\$50,000.00	\$0.00	\$50,000.00		4129-101	
GIS Maintenance						
GIS Maintenance	\$5,000.00	\$0.00	\$5,000.00		4170-101	DW-13
Monitoring Water Quality/Project Monitoring						
Lake Water Quality Monitoring (Misc QA/QC)	\$10,000.00	\$0.00	\$10,000.00		4520-101	DW-2
Annual WQ Report Assistance	\$10,000.00	\$0.00	\$10,000.00		4520-101	DW-2
Special Project BMP Monitoring	\$25,000.00	\$8,196.50	\$16,803.50	\$576.00	4520-101	DW-12
Permit Processing, Inspection and Enforcement						
Permit Application Inspection and Enforcement	\$10,000.00	\$0.00	\$10,000.00		4122-101	DW-7
Permit Application Review	\$55,000.00	\$18,443.50	\$36,556.50	\$5,517.50	4124-101	DW-7
Lake Studies/WRPPs/TMDL Reports						
2020 Grant Applications	\$40,000.00	\$0.00	\$40,000.00		4661-101	DW-13
Tanners Flood Response Tool Model Update	\$3,000.00	\$0.00	\$3,000.00		4661-101	TaL-1
WMP Updates - Including Implementation Plan Updates	\$20,000.00	\$0.00	\$20,000.00		4661-101	DW-13
Prioritization of water quality projects from subwatershed feasibility studies	\$15,000.00	\$0.00	\$15,000.00		4661-101	DW-13
Contingency for Lake Studies	\$25,000.00	\$0.00	\$25,000.00		4661-101	
Research Projects						
New Technology Mini Case Studies (average 6 per year)	\$12,000.00	\$3,848.00	\$8,152.00	\$195.00	4695-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan	\$15,000.00	\$832.50	\$14,167.50	\$0.00	4695-101	DW-12
Phalen Chain of Lakes Changes in Water Quality	\$10,000.00	\$4,323.00	\$5,677.00	\$1,076.00	4695-101	DW-2, DW-12
Shallow Lake Aeration Study	\$36,000.00	\$9,461.90	\$26,538.10	\$4,036.85	4695-101	DW-12
Project Operations						
2020 Tanners Alum Facility Monitoring	\$15,000.00	\$9,125.50	\$5,874.50	\$8,150.00	4650-101	TaL-3
Beltline Outlet and Keller Channel Operations Plans	\$30,000.00	\$0.00	\$30,000.00		4650-101	DW-9, BELT-3
Capital Improvements						
East St. Paul Target	\$45,000.00	\$46,578.27	-\$1,578.27	\$1,958.00	4128-518	DW-6
North St. Paul Target	\$150,000.00	\$115,556.93	\$34,443.07	\$7,877.00	4128-518	DW-6
Cemstone	\$60,000.00	\$0.00	\$60,000.00		4128-518	DW-6
Commercial Sites Retrofit Projects 2021 (Targeted Retrofits)	\$45,000.00	\$1,300.00	\$43,700.00	\$0.00	4128-518	DW-6
School Sites Retrofit Projects 2021 (Targeted Retrofits)	\$45,000.00	\$2,314.00	\$42,686.00	\$390.00	4128-518	DW-6
Church Sites Retrofit Projects 2021 (Targeted Retrofit)	\$45,000.00	\$8,552.00	\$36,448.00	\$1,852.00	4128-518	DW-6
BMP Incentive Fund: Gen'l BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church).	\$75,000.00	\$19,387.10	\$55,612.90	\$5,462.60	4682-529	DW-6
Willow Lake Area Detention (from feas. Study)	\$150,000.00	\$0.00	\$150,000.00		4128-520	DW-9, BELT-3
Kohlman Creek Storage and Detention (from feas. Study)	\$200,000.00	\$0.00	\$200,000.00		4128-520	KC-2
Aldrich Arena (soils and plantings)	\$25,000.00	\$23,836.89	\$1,163.11	\$49.50	4128-518	DW-6, WL-1
Wakefield Park/Frost Avenue Stormwater Project	\$17,500.00	\$22,151.27	-\$4,651.27	\$0.00	4128-553	DW-6, WL-1
Wetland Restoration	\$100,000.00	\$0.00	\$100,000.00		4128-529	DW-1, DW-8
Keller Channel Weir & Phalen Outet Resiliency Modifications	\$250,000.00	\$213,696.77	\$36,303.23	\$11,650.76	4128-520	DW-9, BELT-3
Address Internal Load in TMDL lakes	\$60,000.00	\$0.00	\$60,000.00		4661-101	KL-2, GC-2, WL-3, BL-3
Ryan Drive-Keller Parkway Conveyance	\$194,000.00	\$139,084.19	\$54,915.81	\$2,015.50	4128-520	DW-9, BELT-3, GC-3
Twin Lake Outlet Easement Acquisition, Permitting, Construction Plans (2020)	\$90,000.00	\$72,309.87	\$17,690.13	\$0.00	4128-520	DW-9
Place holder for feas. study (other) recommendations	\$25,000.00	\$0.00	\$25,000.00		4128-520	
CIP Project Repair & Maintenance						
Routine CIP Inspection and Unplanned Maintenance Identification	\$75,000.00	\$36,820.43	\$38,179.57	\$11,790.97	4128-516	DW-5
Beltline 5-year Inspection	\$70,000.00	\$15,997.32	\$54,002.68	\$6,556.82	4128-516	BELT-2
2021 CIP Maintenance and Repairs	\$150,000.00	\$105,085.23	\$44,914.77	\$5,792.86	4128-516	DW-5
2022 CIP Maintenance and Repairs (planning, bidding, and project setup)	\$30,000.00	\$0.00	\$30,000.00		4128-516	DW-5

TOTAL PAYABLE FOR PERIOD 4/17/21 - 5/14/21

\$103,713.50

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



Bradley J. Lindaman, Vice President

2021 Capitol Improvemet Project (CIP) Progress Payment Number 3

1.0	Total Completed Through This Period:	<u>\$356,850.63</u>	
2.0	Total Completed Previously Completed:	<u>\$251,440.75</u>	
3.0	Total Completed This Period:		<u>\$105,409.88</u>
4.0	Amount Previously Retained:	<u>\$12,572.04</u>	
5.0	Amount Retained This Period (See Note 1):		<u>\$5,270.49</u>
6.0	Total Amount Retained (See Note 2):	<u>\$17,842.53</u>	
7.0	Retainage Released Through This Period:		<u>\$0.00</u>
8.0	Total Retainage Remaining:	<u>\$17,842.53</u>	
9.0	Amounts Previously Paid:	<u>\$238,868.71</u>	
10.0	Amount Due This Estimate:		<u><u>\$100,139.39</u></u>

Note 1: Retainage shall be 5 percent of the value of the Work completed.

SUBMITTED BY:

Name: Jason Fitzgerald Date: 5/26/2021
Title: President
Contractor: Fitzgerald Excavating & Trucking, Inc.

Signature: 

RECOMMENDED BY:

Name: Brad Lindaman Date: 05/26/2021
Title: District Engineer
Engineer: Barr Engineering Company

Signature: 

APPROVED BY:

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

Signature: _____

2021 Capital Improvement Project (CIP)
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through May 18th 2021, for Progress Payment Number 3

						(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											
1.04.A	Mobilization/Demobilization	L.S.	1	55,000.00	55,000.00	0.75	\$41,250.00	0.5	\$27,500.00	0.3	\$13,750.00
1.04.B	Control of Water	L.S.	1	3,000.00	3,000.00	0.75	\$2,250.00	0.5	\$1,500.00	0.3	\$750.00
1.04.K	Traffic Control	L.S.	1	8,000.00	8,000.00	0.75	\$6,000.00	0.25	\$2,000.00	0.5	\$4,000.00
Site 1 - Tamarack Swamp, Woodbury (PFS Basins Cleaning/Sweeping)											
1.04 G	Sediment Log (9-Inch Diameter)	L.F.	60	2.00	120.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 D	Sediment/Muck Cleanout Unregulated MPCA SRV Level 1 Material (P)	C.Y.	54	38.00	2,052.00	54	\$2,052.00	0	\$0.00	54	\$2,052.00
1.04 E	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of (SRV Level 2 and 3)	TON	92	10.00	920.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 H	Paver Sweeping (1,400 S.Y.)	S.Y.	1,400	3.00	4,200.00	1400.00	\$4,200.00	0	\$0.00	1400	\$4,200.00
1.04 J	Clear Washed Filter Rock	TON	10	40.00	400.00	0.00	\$0.00	0	\$0.00	0	\$0.00
1.04 F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	100	1.00	100.00	100	\$100.00	0	\$0.00	100	\$100.00
Site 2 - 5th Street Wetland, Oakdale (Wetland Weir Maintenance)											
1.04. K	Permeable Weir Maintenance (Reopening Drainage Slots and Remove all Brush and Debris)	L.F.	65	10.00	650.00	65	\$650.00	65	\$650.00	0	\$0.00
1.04 F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	210	1.00	210.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 3 - Tanners Wetland, Oakdale (Wetland Weir Maintenance)											
1.04. K	Permeable Weir Maintenance (Reopening Drainage Slots and Remove all Brush and Debris)	L.F.	580	10.00	5,800.00	580	\$5,800.00	580	\$5,800.00	0	\$0.00
1.04 F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	210	1.00	210.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 4 - Gervais Mill Park, Little Canada (Mill Pond Filter Maintenance)											
1.04 N	Flotation Silt Curtain	L.F.	45	15.00	675.00	90	\$1,350.00	90	\$1,350.00	0	\$0.00
1.04 Q	Composite Mud Mats Protection (Double Layer)	S.Y.	100	3.00	300.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 I	Remove Existing 1-1/2 inch to 2-inch Filter Rock	L.S.	1	3,500.00	3,500.00	1	\$3,500.00	1	\$3,500.00	0	\$0.00
1.04 J	Clear Washed Filter Rock	TON	50	45.00	2,250.00	35	\$1,572.75	34.95	\$1,572.75	0	\$0.00
1.04 F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	400	1.00	400.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 5 - Lower Afton Road, Maplewood (Drainageway Sediment Removal)											
1.04 O	Construction Entrance	EACH	1	500.00	500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 P	Temporary Rock Filter Dike	TON	10	25.00	250.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 Q	Composite Mud Mats Protection (Double Layer)	S.Y.	45	3.00	135.00	45	\$135.00	45	\$135.00	0	\$0.00
1.04 D	Sediment/Muck Cleanout Unregulated MPCA SRV Level 1 Material (P)	C.Y.	75	35.00	2,625.00	75	\$2,625.00	75	\$2,625.00	0	\$0.00
1.04 E	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of (SRV Level 2 and 3)	TON	127	16.00	2,032.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	210	1.00	210.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 6 - ABI Diversion Manhole, Oakdale (Weir Repair)											
1.04 O	Construction Entrance	EACH	1	500.00	500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 G	Sediment Log (9-Inch Diameter)	L.F.	50	2.00	100.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 D	Sediment/Muck Cleanout Unregulated MPCA SRV Level 1 Material (P)	C.Y.	12	35.00	420.00	12	\$420.00	12	\$420.00	0	\$0.00
1.04 E	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of (SRV Level 2 and 3)	TON	20	17.00	340.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 S	Remove and Replace Top Slab Water Control Structure, Remove Existing Concrete Weir and Rebuild Conc	L.S.	1	12,000.00	12,000.00	1	\$12,000.00	1	\$12,000.00	0	\$0.00
1.04 T	Remove and Replace Bituminous Trail Pavement	S.Y.	20	25.00	500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 F	Site and Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	100	1.00	100.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 7 - Bailey Nursery, Newport (Storm Sewer Repair)											
1.04 U	Removal of RCP Storm Sewer Pipe	L.F.	16	28.00	448.00	16	\$448.00	16	\$448.00	0	\$0.00
1.04 V	Precast Reinforced Concrete Pipes	L.F.	16	95.00	1,520.00	16	\$1,520.00	16	\$1,520.00	0	\$0.00
1.04 W	Connection to Manhole Structure	EACH	2	1,000.00	2,000.00	2	\$2,000.00	2	\$2,000.00	0	\$0.00
1.04 HH	MN/DOT Class III Riprap with Type IV Geotextile Filter Fabric	TON	25	40.00	1,000.00	0	\$0.00		\$0.00	0	\$0.00
1.04 F	Site and Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	100	4.00	400.00	100	\$400.00	100	\$400.00	0	\$0.00

2021 Capital Improvement Project (CIP)
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through May 18th 2021, for Progress Payment Number 3

						(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 8 - Kohlman Basin, Maplewood (Permeable Weirs Upflow Treatment Cells)											
1.04 O	Construction Entrance	EACH	1	800.00	800.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 X	Remove, Salvage, and Replace Existing Treatment Materials for Construction of Cell Structures	C.Y.	12	100.00	1,200.00	12	\$1,200.00	12	\$1,200.00	0	\$0.00
1.04 Y	Construct Upflow Treatment Cell Structure	EACH	2	9,000.00	18,000.00	2	\$18,000.00	2	\$18,000.00	0	\$0.00
1.04 GG	Filter Fabric MN/DOT Type 5	S.Y.	32	2.00	64.00	32	\$64.00	32	\$64.00	0	\$0.00
1.04 Z	3-inch PVC Schedule 40 Piping and Fittings	L.F.	60	25.00	1,500.00	60	\$1,500.00	60	\$1,500.00	0	\$0.00
1.04 AA	Valterra Knife Gate	EACH	2	800.00	1,600.00	2	\$1,600.00	2	\$1,600.00	0	\$0.00
1.04 BB	Pea Gravel Bedding	TON	4	10.00	40.00	4	\$40.00	4	\$40.00	0	\$0.00
1.04 CC	Limerock (CC17)	TON	8	40.00	320.00	8	\$320.00	8	\$320.00	0	\$0.00
1.04 F	Site Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	200	1.00	200.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 9 - Willow Pond, Roseville (CMAC Drain Pipe Installation)											
1.04 O	Construction Entrance	EACH	1	800.00	800.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 Q	Composite Mud Mats Protection (Double Layer)	S.Y.	112	3.00	336.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 G	Sediment Log (9-Inch Diameter)	L.F.	350	4.00	1,400.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 DD	Furnish and Install 4-inch PVC Drainpipe SDR 35	L.F.	205	30.00	6,150.00	205	\$6,150.00	205	\$6,150.00	0	\$0.00
1.04 W	Connection to Manhole Structure	EACH	2	2,000.00	4,000.00	2	\$4,000.00	2	\$4,000.00	0	\$0.00
1.04 F	Site Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	540	1.00	540.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 10a - Owasso Basin, Little Canada (Perimeter Berm Raise with Grading and Restoration)											
1.04 O	Construction Entrance	EACH	1	800.00	800.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 R	Removal of Trees, Brush, and Debris (Disposal Off Site)	L.S.	1	3,500.00	3,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 EE	Strip and Salvage Topsoil	C.Y.	150	10.00	1,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 MM	Berm Fill Material Borrow	C.Y.	265	20.00	5,300.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 KK	Replace Salvaged Topsoil	C.Y.	150	10.00	1,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 LL	Topsoil Borrow	C.Y.	60	20.00	1,200.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 F	Site Access Restoration (Seeding and Erosion Control Blanket)	S.Y.	1,500	4.00	6,000.00	0	\$0.00	0	\$0.00	0	\$0.00
Site 10b - Owasso Basin, Little Canada (Channel Cleaning and Grading)											
1.04 O	Construction Entrance	EACH	2	2,000.00	4,000.00	2	\$4,000.00	2	\$4,000.00	0	\$0.00
1.04 R	Removal of Trees, Brush, and Debris (Disposal Off Site)	L.S.	1	45,000.00	45,000.00	1	\$45,000.00	1	\$45,000.00	0	\$0.00
1.04 EE	Strip and Salvage Topsoil	C.Y.	170	10.00	1,700.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 Q	Composite Mud Mats Protection (Double Layer)	S.Y.	312	20.00	6,240.00	312	\$6,240.00	312	\$6,240.00	0	\$0.00
1.04 NN	Remove Sheet Pile Water Control Weir, Pipe and Riprap	L.S.	1	5,000.00	5,000.00	1	\$5,000.00	1	\$5,000.00	0	\$0.00
1.04 D	Sediment/Muck Cleanout Unregulated MPCA SRV Level 1 Material (P)	C.Y.	3,640	28.00	101,920.00	2,730	\$76,440.00	2730	\$76,440.00	0	\$0.00
1.04 E	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of (SRV Level 2 and 3)	TON	6,152	14.00	86,128.00	1,850	\$25,902.66	0	\$0.00	1850.19	\$25,902.66
1.04 KK	Replace Salvaged Topsoil	C.Y.	170	10.00	1,700.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 LL	Topsoil Borrow	C.Y.	160	20.00	3,200.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	3,275	1.00	3,275.00	2,500	\$2,500.00	0	\$0.00	2500	\$2,500.00
Site 11 - Round Lake Pond, Little Canada (Pond Cleanout)											
1.04 O	Construction Entrance	EACH	1	800.00	800.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 OO	Protection of Existing Trees, Landscaping, and Trail	L.S.	1	500.00	500.00	1	\$500.00	1	\$500.00	0	\$0.00
1.04 Q	Composite Mud Mats Protection (Double Layer)	S.Y.	62	20.00	1,240.00	62	\$1,240.00	62	\$1,240.00	0	\$0.00
1.04 N	Flotation Silt Curtain	L.F.	85	10.00	850.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 D	Sediment/Muck Cleanout Unregulated MPCA SRV Level 1 Material (P)	C.Y.	75	30.00	2,250.00	75	\$2,250.00	75	\$2,250.00	0	\$0.00
1.04 E	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of (SRV Level 2 and 3)	TON	127	16.00	2,032.00	69	\$1,096.96	0	\$0.00	68.56	\$1,096.96
1.04 HH	MN/DOT Class III Riprap with Type IV Geotextile Filter Fabric	TON	31	50.00	1,550.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	300	2.00	600.00	0	\$0.00	0	\$0.00	0	\$0.00

2021 Capital Improvement Project (CIP)
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through May 18th 2021, for Progress Payment Number 3

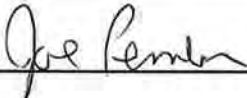
						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
Site 12 - Margaret Pond, North St. Paul (Pond Cleanout)											
1.04 O	Construction Entrance	EACH	1	800.00	800.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 R	Removal of Trees, Brush, and Debris (Disposal Off Site)	L.S.	1	2,000.00	2,000.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 N	Flotation Silt Curtain	L.F.	80	15.00	1,200.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 U	Removal of 30-inch RCP Storm Sewer Pipe	L.F.	42	40.00	1,680.00	42	\$1,680.00		\$0.00	42	\$1,680.00
1.04 PP	Remove Curb and Gutter	L.F.	20	5.00	100.00	20	\$100.00	0	\$0.00	20	\$100.00
1.04 QQ	Remove and Disposal of Drainage Structure Manhole	EACH	2	500.00	1,000.00	2	\$1,000.00	0	\$0.00	2	\$1,000.00
1.04 FF	Sawcut Bituminous Pavement	L.F.	56	4.00	224.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 RR	Remove Bituminous Pavement	S.Y.	20	5.00	100.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 II	Aggregate Base Class 5	TON	8	25.00	187.50	0	\$0.00	0	\$0.00	0	\$0.00
1.04 JJ	Bituminous Wear Coarse (Including Tack Coat)	TON	3	100.00	300.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 SS	Remove Concrete Sidewalk	S.F.	80	5.00	400.00	80	\$400.00	0	\$0.00	80	\$400.00
1.04 TT	Coarse Filter Material	TON	17	25.00	425.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 V	Furnish and Install 36-inch RCP Class III	L.F.	50	200.00	10,000.00	58	\$11,600.00	0	\$0.00	58	\$11,600.00
1.04 UU	36-inch Reinforced Concrete Flared End Section	EACH	1	4,000.00	4,000.00	1	\$4,000.00	0	\$0.00	1	\$4,000.00
1.04 W	Connect to Manhole Structure	EACH	2	2,000.00	4,000.00	2	\$4,000.00	0	\$0.00	2	\$4,000.00
1.04 VV	Construct Drainage Structure Design 84-4020	L.F.	9	1,200.00	10,800.00	9	\$10,800.00	0	\$0.00	9	\$10,800.00
1.04 WW	Construct Drainage Structure Design Special	EACH	1	5,000.00	5,000.00	1	\$5,000.00	0	\$0.00	1	\$5,000.00
1.04 D	Sediment/Muck Cleanout Unregulated MPCA SRV Level 1 Material (P)	C.Y.	130	35.00	4,550.00	130	\$4,550.00	100	\$3,500.00	30	\$1,050.00
1.04 E	Sediment/Muck Cleanout Excavation, Loading, Hauling and Disposal of (SRV Level 2 and 3)	TON	220	16.00	3,520.00	191	\$3,057.76	0	\$0.00	191.11	\$3,057.76
1.04 HH	MN/DOT Class III Riprap (Field Stone)	TON	59	75.00	4,425.00	36	\$2,668.50	0	\$0.00	35.58	\$2,668.50
1.04 XX	8-inch Concrete Walk	S.F.	80	15.00	1,200.00	80	\$1,200.00	0	\$0.00	80	\$1,200.00
1.04 YY	Concrete Curb and Gutter Design B612	L.F.	20	30.00	600.00	20	\$600.00	0	\$0.00	20	\$600.00
1.04 F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	500	1.00	500.00	500	\$500.00	0	\$0.00	500	\$500.00
Site 13 - McKnight Basin, Maplewood (Erosion/Sink Hole Repairs)											
1.04 Q	Composite Mud Mats Protection (Double Layer)	S.Y.	122	10.00	1,220.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 ZZ	Fill Existing Sink Holes (Including Fill Materials/Topsoil)	L.S.	1	6,000.00	6,000.00	1	\$6,000.00	1	\$6,000.00	0	\$0.00
1.04 HH	MN/DOT Class III Riprap with Type IV Geotextile Filter Fabric	TON	10	50.00	500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 F	Site Restoration (Seeding and Erosion Control Blanket)	S.Y.	244	4.00	976.00	244	\$976.00	244	\$976.00	0	\$0.00
Site 14 - Grass Lake Emergency Overflow, Shoreview (Pavers along Bituminous Trail)											
1.04 G	Sediment Log (9-Inch Diameter)	L.F.	75	4.00	300.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 Q	Composite Mud Mats Protection (Double Layer)	S.Y.	112	10.00	1,120.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 AAA	Remove and Replenish Existing Riprap	L.S.	1	1,500.00	1,500.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 II	Class 5 Aggregate Base or (Engineer-Approved Class 7 Recycled Material)	TON	2	25.00	50.00	0	\$0.00		\$0.00	0	\$0.00
1.04 BBB	Remove, Salvage, and Replace Existing Class 5	L.S.	1	1,200.00	1,200.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 CCC	Furnish and Install Turfstone Pavers (Includes bedding sand and edge restraints)	S.F.	266	39.00	10,374.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 LL	Topsoil Borrow (Fill In Pavers)	C.Y.	2	20.00	40.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04 F	Site Restoration (Seeding Paver Voids, Disturbed Area and Erosion Control Blanket)	S.Y.	40	4.00	160.00	0	\$0.00	0	\$0.00	0	\$0.00
				Contract Base Extensions =	\$518,053.50		\$349,448.63		\$247,440.75		\$102,007.88
Change Order 1											
C.O.1.A	Bailey Nursery Reset Existing Structure	L.S.	1	4,000.00	4,000.00	1	\$4,000.00	1	\$4,000.00	0	\$0.00
				Change Order Extensions =	\$4,000.00		\$4,000.00		\$4,000.00		\$0.00
Change Order 2											
C.O.2.A	Additional Earthwork for North St. Paul	C.Y.	252	13.50	3,402.00	252	\$3,402.00	0	\$0.00	252	\$3,402.00
				Change Order Extensions =	\$3,402.00		\$3,402.00		\$0.00		\$3,402.00
				Contract Grand Total =	\$525,455.50		\$356,850.63		\$251,440.75		\$105,409.88

**Keller Channel Weir and Phalen Outlet Resiliency
Progress Payment Number 5**


1.0	Total Completed Through This Period:	<u>\$1,195,033.99</u>	
2.0	Total Completed Previously Completed:	<u>\$1,060,411.69</u>	
3.0	Total Completed This Period:		<u>\$134,622.30</u>
4.0	Amount Previously Retained:	<u>\$53,020.58</u>	
5.0	Amount Retained This Period (See Note 1):		<u>\$6,731.12</u>
6.0	Total Amount Retained:	<u>\$59,751.70</u>	
7.0	Retainage Released Through This Period:		<u>\$0.00</u>
8.0	Total Retainage Remaining:	<u>\$59,751.70</u>	
9.0	Amounts Previously Paid:	<u>\$1,007,391.13</u>	
10.0	Amount Due This Estimate:		<u><u>\$127,891.18</u></u>

Note 1: Retainage shall be 5 percent of the value of the Work completed.

SUBMITTED BY:

Name: Joe Pember Date: 5/27/21
Title: Project Manager
Contractor: Pember Companies, Inc.
Signature: 

RECOMMENDED BY:

Name: Brad Lindaman Date: 5/26/2021
Title: District Engineer
Engineer: Barr Engineering Company
Signature: 

APPROVED BY:

Name: Lawrence Swope Date: _____
Title: President
Owner: Ramsey-Washington Metro Watershed District
Signature: _____

**Keller Channel Weir and Phalen Outlet Resiliency
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through May 18, 2021 for Progress Payment Number 5**

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
General											
1.04.A	Mobilization/Demobilization	L.S.	1	58,900.00	58,900.00	1.00	\$58,900.00	0.90	\$53,010.00	0.10	\$5,890.00
1.04.B	Clearing and Grubbing	L.S.	1	6,500.00	6,500.00	1	\$6,500.00	1	\$6,500.00	0	\$0.00
1.04.C	Control of Water	L.S.	1	225,000.00	225,000.00	1.00	\$225,000.00	1.00	\$225,000.00	0.00	\$0.00
1.04.D	Construction Entrance	Each	3	1,000.00	3,000.00	3	\$3,000.00	3	\$3,000.00	0	\$0.00
1.04.E	Silt Fence	L.F.	450	2.70	1,215.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.F	Siltation Log	L.F.	250	4.20	1,050.00	425	\$1,785.00	425	\$1,785.00	0	\$0.00
1.04.G	Floatation Silt Curtain	L.F.	400	24.00	9,600.00	450	\$10,800.00	450	\$10,800.00	0	\$0.00
1.04.H	Erosion Control Blanket	S.Y.	347	3.70	1,283.90	1,029	\$3,807.30	0	\$0.00	1029	\$3,807.30
1.04.I	Hydro-Mulch	S.Y.	780	3.00	2,340.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.J	Inlet Protection	Each	14	130.00	1,820.00	0	\$0.00	0	\$0.00	0	\$0.00
1.04.K	Traffic and Pedestrian Control	L.S.	1	10,000.00	10,000.00	1.00	\$10,000.00	0.90	\$9,000.00	0.1	\$1,000.00
Phalen Lake East and West Outlet Structures											
1.04.L	Remove, Salvage and Replace Split Rail Fence	L.F.	135	30.00	4,050.00	135	\$4,050.00	109	\$3,270.00	26	\$780.00
1.04.M	Remove and Salvage Existing Overflow Structure Grate Trash Rack	Each	2	3,000.00	6,000.00	2	\$6,000.00	2	\$6,000.00	0	\$0.00
1.04.N	Remove and Disposal of Existing 24” RCP Flared End Section and Trash Rack Inlet	Each	2	2,000.00	4,000.00	2	\$4,000.00	2	\$4,000.00	0	\$0.00
1.04.O	Excavate and Removal of Riprap from Infront of Structures and Regrade Area	L.S.	1	50,000.00	50,000.00	1.00	\$50,000.00	1.00	\$50,000.00	0	\$0.00
1.04.P	Construction Provisions/Methods to Protect Existing Concrete Structures D	L.S.	1	15,000.00	15,000.00	1.00	\$15,000.00	1.00	\$15,000.00	0	\$0.00
1.04.Q	Remove Partial Section of Existing Concrete Weir Wall	Each	2	7,500.00	15,000.00	2	\$15,000.00	2	\$15,000.00	0	\$0.00
1.04.R	36” RCP Class II	L.F.	140	300.00	42,000.00	151	\$45,300.00	151	\$45,300.00	0	\$0.00
1.04.S	36” RC Flared End Section w/Bull Nose Trash Rack	Each	4	5,000.00	20,000.00	4	\$20,000.00	4	\$20,000.00	0	\$0.00
1.04.T	Connect 36” RCP to Existing Outlet Control Structure	Each	4	10,000.00	40,000.00	4	\$40,000.00	4	\$40,000.00	0	\$0.00
1.04.U	Random Granite Riprap Mn/DOT Class IV	Ton	556	83.00	46,148.00	398	\$33,034.00	398	\$33,034.00	0	\$0.00
1.04.V	Granular Filter Material	Ton	277	32.50	9,002.50	115	\$3,737.50	115	\$3,737.50	0	\$0.00
1.04.W	72” Dia. RC Control Structure Manhole with Integral Base, Weir Wall and Door Hatch Cast in Top Slab	Each	4	15,000.00	60,000.00	4	\$60,000.00	4	\$60,000.00	0	\$0.00
1.04.X	Construct 8” Reinforced Concrete Weir Wall in Existing Outlet Structure	Each	4	5,500.00	22,000.00	4	\$22,000.00	4	\$22,000.00	0	\$0.00
1.04.Y	Aluminum Angle Frame Floor Door Hatch – Single Leaf	Each	4	2,500.00	10,000.00	4	\$10,000.00	4	\$10,000.00	0	\$0.00
1.04.Z	Furnish and Install 48” Wide x 48” High Drop Weir Gate (Whipps, Inc.™) with Electric Actuator	Each	4	20,500.00	82,000.00	4	\$82,000.00	4	\$82,000.00	0	\$0.00
1.04.AA	Furnish and Install Custom Fabricated Special Overflow Structure Galvanized Trash Rack (Haala Ind.™)	Each	2	6,400.00	12,800.00	2	\$12,800.00	2	\$12,800.00	0	\$0.00
1.04.AB	Aggregate Fill	C.Y.	578	32.50	18,785.00	588	\$19,110.00	588	\$19,110.00	0	\$0.00
1.04.AC	Import Topsoil	C.Y.	58	70.00	4,060.00	58	\$4,060.00	58	\$4,060.00	0	\$0.00
1.04.AD	Protect Trails/Paths and Repair/Restoration of any Damaged Bituminous	L.S.	1	40,000.00	40,000.00	1.00	\$40,000.00	0.75	\$30,000.00	0.25	\$10,000.00

**Keller Channel Weir and Phalen Outlet Resiliency
Ramsey-Washington Metro Watershed District
Summary of Work Completed Through May 18, 2021 for Progress Payment Number 5**

						(1) Total Completed Through This Period		(2) Total Completed Previous Period		(3) Total Completed This Period	
Item	Description	Unit	Estimated Quantity	Unit Price	Extension	Quantity	Amount	Quantity	Amount	Quantity	Amount
1.04.AE	Seeding	S.Y.	347	5.00	1,735.00	1,029	\$5,145.00	0	\$0.00	1,029	\$5,145.00
1.04.AF	Site Restoration	L.S.	1	5,000.00	5,000.00	1.00	\$5,000.00	0.50	\$2,500.00	0.50	\$2,500.00
Keller Channel Weir											
1.04.AG	Remove Top 3 Feet of Existing Weir Wall	L.S.	1	18,000.00	18,000.00	1	\$18,000.00	1	\$18,000.00	0	\$0.00
1.04.AH	Construction Provisions/Methods to Protect Existing Concrete Structure During Selective Demolition/Removals	L.S.	1	8,500.00	8,500.00	1	\$8,500.00	1	\$8,500.00	0	\$0.00
1.04.AI	Concrete Modifications to Weir, (Add 1 foot to top of weir and 6 inches to side walls as shown on Drawings)	L.S.	1	8,000.00	8,000.00	1	\$8,000.00	1	\$8,000.00	0	\$0.00
1.04.AJ	Repair/Regrade Existing Channel Side Slopes, Construct Level Access Pad Area for Control Panel, Remove and Replace Riprap Upstream and Downstream of Structure, Add Topsoil, Seed, and Erosion Control Blanket	L.S.	1	28,000.00	28,000.00	1	\$28,000.00	1	\$28,000.00	0	\$0.00
1.04.AK	Furnish and Install 132” Wide x 30” High Drop Weir Gate (Whipps, Inc.™) with Interconnected Gearbox and Electric Actuator	Each	3	23,000.00	69,000.00	3	\$69,000.00	3	\$69,000.00	0	\$0.00
1.04.AL	Valve Stem Cover Box/Lid Installed	Each	3	4,100.00	12,300.00	3	\$12,300.00	3	\$12,300.00	0	\$0.00
1.04.AM	Protect Trails/Paths and Repair/Restoration of any Damaged Bituminous	L.S.	1	20,000.00	20,000.00	1.00	\$20,000.00	0.75	\$15,000.00	0.25	\$5,000.00
1.04.AN	Site Restoration	L.S.	1	14,000.00	14,000.00	1.00	\$14,000.00	0.50	\$7,000.00	0.50	\$7,000.00
Electrical											
1.04.AO	Electrical - Phalen Lake East and West Outlet Structures	L.S.	1	130,000.00	130,000.00	0.90	\$117,000.00	0.35	\$45,500.00	0.55	\$71,500.00
1.04.AP	Electrical - Keller Channel Weir	L.S.	1	40,000.00	40,000.00	0.90	\$36,000.00	0.35	\$14,000.00	0.55	\$22,000.00
Electrical Allowance											
1.05B	Schedule of Allowances	Each	1	21,000.00	21,000.00	0	\$0.00	0	\$0.00	0	\$0.00
Contract Base Extensions =						\$1,197,089.40	\$1,146,828.80	\$1,012,206.50	\$134,622.30		
Change Order 1											
C.O.1.A	Crushed Granite Stone (Barton CA1)	Ton	400	83.00	33,200.00	416	\$34,528.00	416	\$34,528.00	0	\$0.00
C.O.1.B	Type 5 Stabilization Geotextile	SY	350	2.50	875.00	350	\$875.00	350	\$875.00	0	\$0.00
C.O.3.A	Keller Channel Sediment/Muck Excavation and Disposal	CY	105	56.68	5,951.00	105	\$5,951.00	105	\$5,951.00	0	\$0.00
C.O.4.A	Phalen Riprap Fill - 70/30 Mixture (Sand/Compost)	CY	63	54.25	3,417.75	63	\$3,417.75	63	\$3,417.75	0	\$0.00
C.O.4.B	Keller Riprap Fill - Topsoil	CY	22	41.67	916.74	22	\$916.74	22	\$916.74	0	\$0.00
C.O.4.C	Concrete Core Drill Holes for Electrical Conduits	Each	6	275.00	1,650.00	6	\$1,650.00	6	\$1,650.00	0	\$0.00
C.O.4.D	Additional Manhole Steps Installed	Each	18	48.15	866.70	18	\$866.70	18	\$866.70	0	\$0.00
Change Order Extensions =						\$46,877.19	\$48,205.19	\$48,205.19	\$0.00		
Contract Grand Total =						\$1,243,966.59	\$1,195,033.99	\$1,060,411.69	\$134,622.30		

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
May 19, 2021
File No: 9M

	Balance
General Account	<u>\$2,378.00</u>

Permit Application Coversheet

Date June 02, 2021

Project Name Kwik Trip North St. Paul

Project Number 21-14

Applicant Name Steven Lowe, Kwik Trip

Type of Development Commercial/Retail

Property Description

This project is located northeast of McKnight Road and Anchor Drive in the City of North St. Paul. The site is located on the northwest parcel of Anchor Block Commons, a common plan of development underway by the city. The applicant is proposing to construct a gas station/convenience store with car wash and associated parking and drive areas. The total site area is 2.5 acres. Stormwater management was previously accounted for in a previous permit (#19-38) in the form of filtration basins. Proposed impervious area was checked against the original development plan to ensure volume reduction and rate control requirements continue to be met with this last section of development.

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

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.

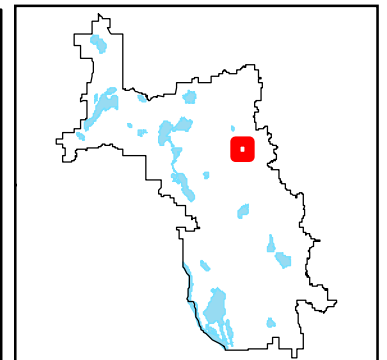
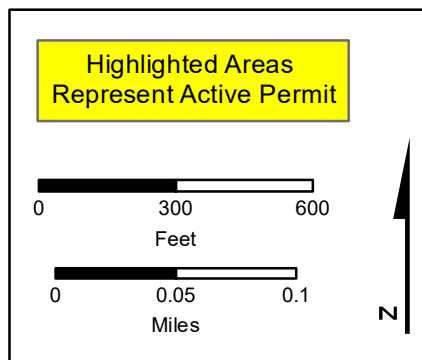
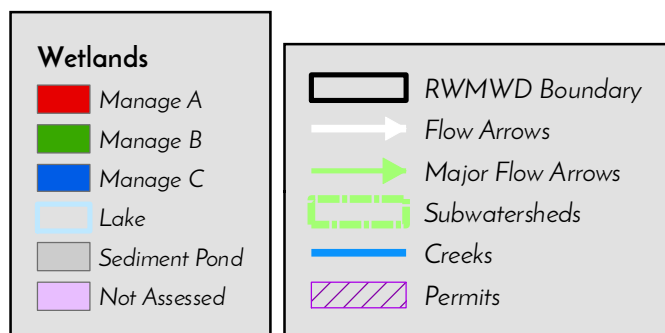
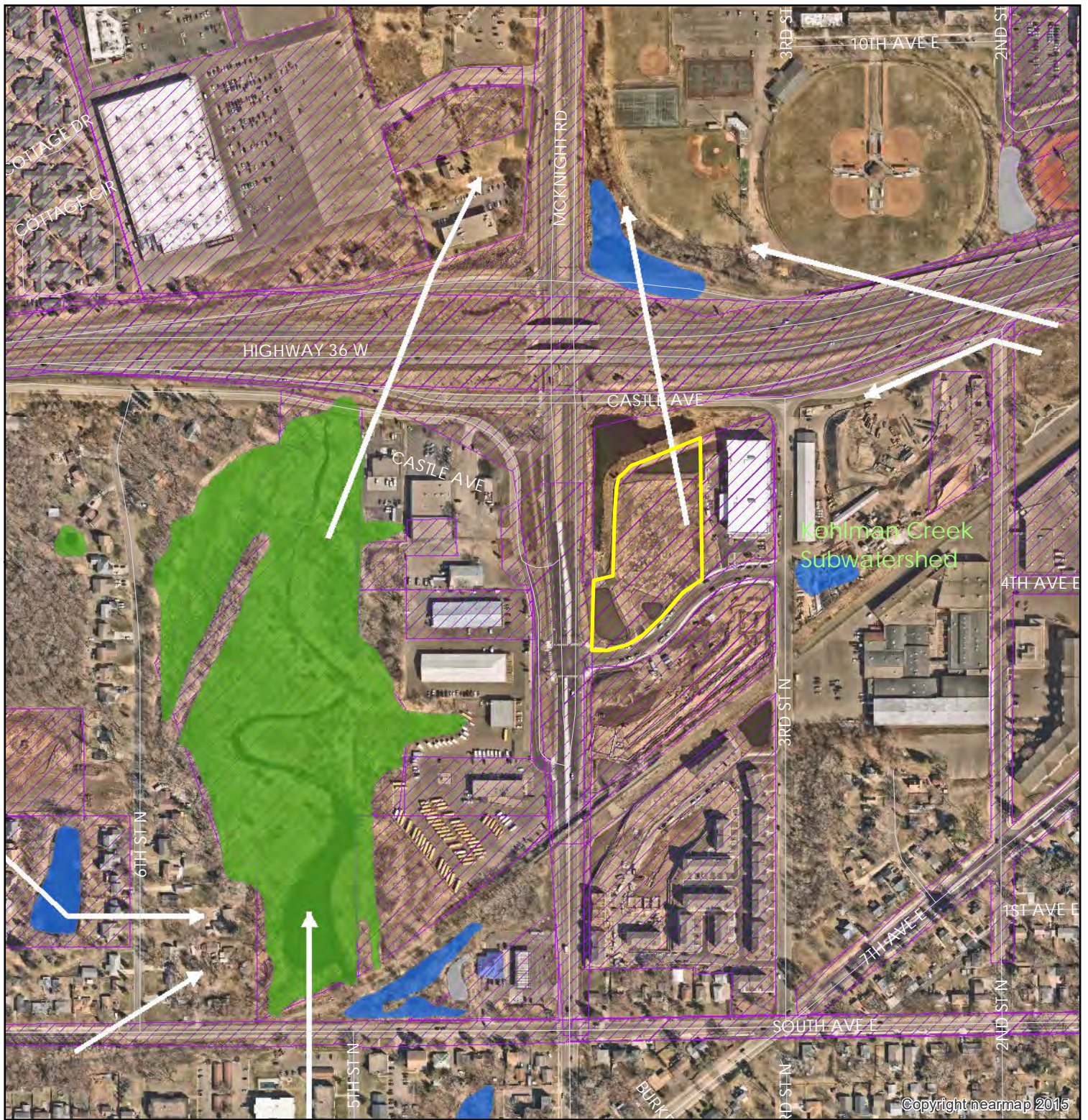
Staff Recommendation

Staff recommends approval of this permit.

Attachments:

- ☒ Project Location Map
- ☒ Project Grading Plan

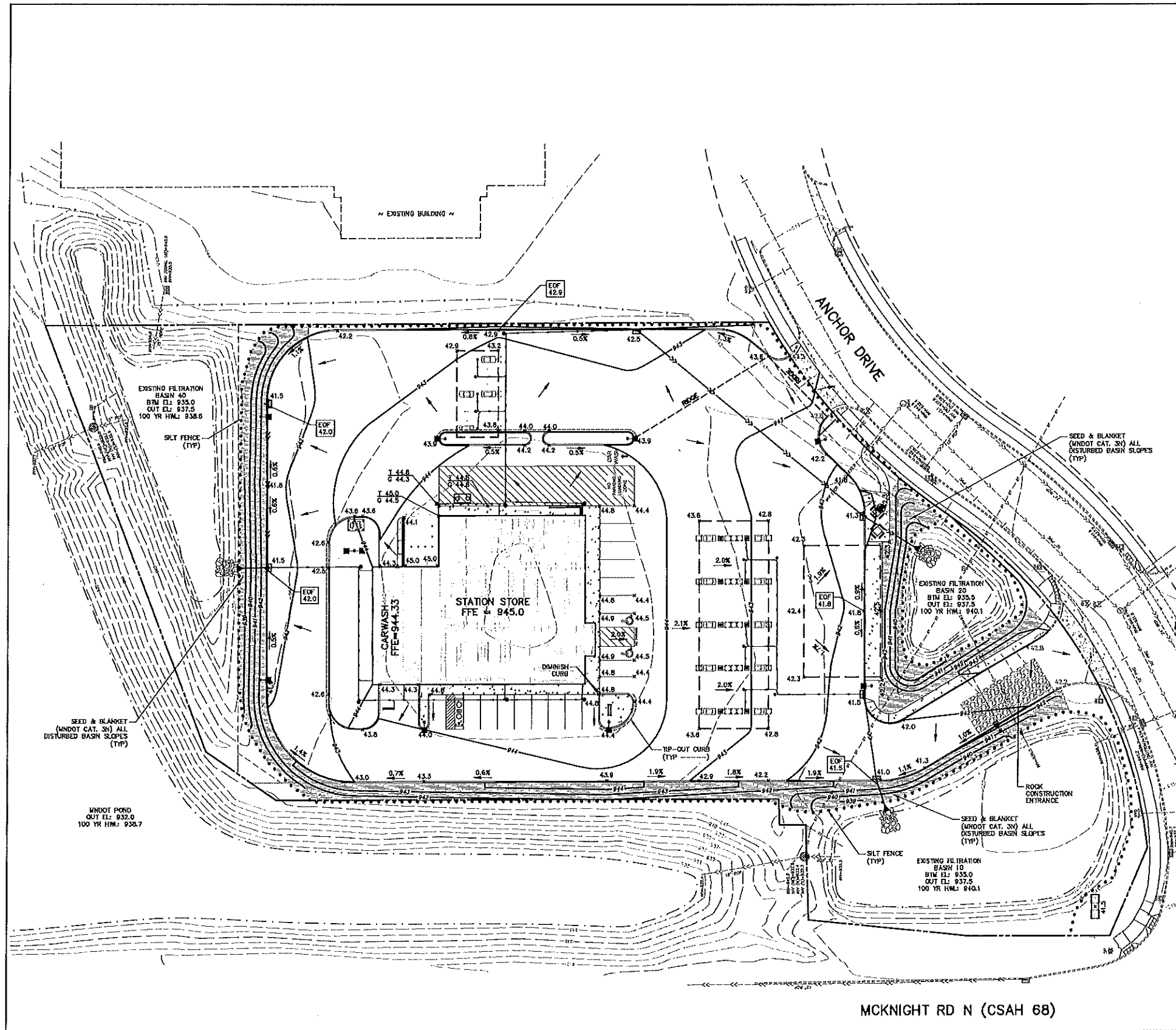
#21-14 Kwik Trip North St. Paul



21-14

Special Provisions

None



PLAN LEGEND	
EXISTING	PROPOSED
CURB	
BITUMINOUS	
CONCRETE PAVEMENT	
CONCRETE WALK	
PROPERTY LINE	
EASEMENT LINE	
STORM SEWER	
SANITARY SEWER	
WATER MAIN	
DRAIN TILE	
FENCE	
SANITARY MANHOLE	
HYDRANT	
GATE VALVE	
LIGHT POLE	
OVER FLOW STRUCTURE	
STORM MANHOLE	
SCOPHORE	
HAND HOLE	
CLEANOUT	
FLARED END SECTION	
5' CONTOUR	
1' CONTOUR	
SPOT ELEVATION (CURB ELEVATIONS ARE TO OUTTER LINE)	
SILT FENCE	

GOVERNING SPECIFICATIONS

- THE LATEST EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE CITY OF NORTH ST. PAUL SPECIFICATIONS.
- THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- THE LATEST EDITION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM) STANDARD SPECIFICATIONS.

GRADING NOTES

- SILT FENCE AND EXISTING CATCH BASIN INLET PROTECTION SHALL BE INSTALLED PRIOR TO GRADING CONSTRUCTION, AND SHALL BE MAINTAINED UNTIL THE SITE HAS BEEN STABILIZED.
- CONTRACTOR SHALL FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND PAVEMENTS PRIOR TO THE START OF GRADING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF DISCREPANCIES OR VARIATIONS FROM THE PLAN.
- CONTRACTOR SHALL STRIP, STOCKPILE, AND RESPREAD SUFFICIENT TOPSOIL TO PROVIDE A MINIMUM OF 6" OF TOPSOIL OVER ALL DISTURBED AREAS THAT WILL BE SOILED, SEED, OR LANDSCAPED.
- TURF ESTABLISHMENT SHALL BEGON AS SOON AS POSSIBLE BUT IN NO CASE LATER THAN 7 DAYS AFTER GRADING COMPLETION.
- ALL SLOPES 3:1 OR STEEPER SHALL HAVE MNDOT CAT.1 EROSION CONTROL, BLANKET AND SEED, OR APPROVED EQUAL.

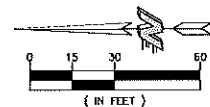
STORMWATER/INSPECTION NOTES

- CONTRACTOR SHALL NOTIFY NICOLE SODERHOLM, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7978 PRIOR TO BEGINNING ANY AND ALL CONSTRUCTION ACTIVITY FOR AN INITIAL SWPPP INSPECTION.
- CONTRACTOR SHALL NOTIFY NICOLE SODERHOLM, RAMSEY-WASHINGTON METRO WATERSHED DISTRICT, AT 651-792-7978 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION OF STORMWATER FACILITIES.

TURF ESTABLISHMENT

TURF ESTABLISHMENT SHALL APPLY TO ALL DISTURBED AREAS AND SHALL BE ACCORDING TO MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION (LATEST EDITION) EXCEPT AS MODIFIED BELOW.

- TURF ESTABLISHMENT SHALL OCCUR AS SOON AS POSSIBLE BUT IN NO CASE MORE THAN 7 DAYS.
- SEED: MNDOT MIXTURE 25-141 AT 80 POUNDS PER ACRE.
- DORMANT SEED: SHALL BE APPLIED AT TWICE THE NORMAL RATE AFTER NOVEMBER 1ST.
- MULCH: TYPE 1 AT 2 TONS PER ACRE (DISK ANCHORED).
- FERTILIZER: TYPE 10-10-10 AT 200 POUNDS PER ACRE.



BENCHMARKS

1. RAMSEY COUNTY GEODETIC DATABASE
STATION NAMED 9210.
ELEVATION = 961.975 (NAVD 88)



Know what's below.
Call before you dig.

Kwik TRIP

Kwik Star

KWIK TRIP, Inc.
P.O. BOX 2107
1628 OAK STREET
LA CROSSE, WI 54602-2107
PH. (608) 781-8988
FAX (608) 781-8960

**CARLSON
McCain**

3970 PLEASANT RIDGE DRIVE NE, SUITE 170, BLAINE, MN 55449
TEL 763.493.7500 F 763.493.7501 C CARLSONMCCAIN.COM

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.
Name: Joseph T. Radach, P.E.
Signature: *Joseph T. Radach*
Date: 08/21/20 License #: 45889

GRADING, DRAINAGE &
EROSION CONTROL PLAN

CONVENIENCE STORE #1169
SIDE DIESEL & 1-BAY CARWASH

HIGHWAY 36 & MCKNIGHT ROAD
NORTH ST. PAUL, MINNESOTA

#	DATE	DESCRIPTION
1	12/01/20	City Comments
2	12/18/20	Sheets SP3 & SP4.1
3	02/09/21	Sheet SP4
4	03/12/21	Construction Set

DRAWN BY	JTR
SCALE	GRAPHIC
PROJ. NO.	8927-00
DATE	2020-09-21
SHEET	1169 SP3

Stewardship Grant Application Summary

Project Name: Grandview Townhomes Association

Application Number: 21-18 CS

Board Meeting Date: 6/2/2021

Applicant Name: Gail Christ

Residential ☐

Commercial/Government ☒

Project Overview:

This project is located at a townhome association off Lexington Ave and Highway 36 in the City of Roseville. The applicant plans to remove a large area overgrown with buckthorn and other invasive shrubs and trees. They are requesting grant funding to install native trees, shrubs, and herbaceous species upon completion of invasive removal. They have a 5 year contract with the contractor doing the work to keep up with ongoing maintenance while the native plants establish.

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

BMP type(s):

Native Habitat Restoration(1)

Grant Request:

\$8,530.00

Recommendation:

Staff recommends approval of this application.

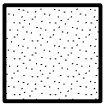
Subwatershed:

Bennett Lake

Location Maps:



LEGEND



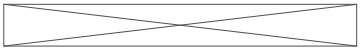
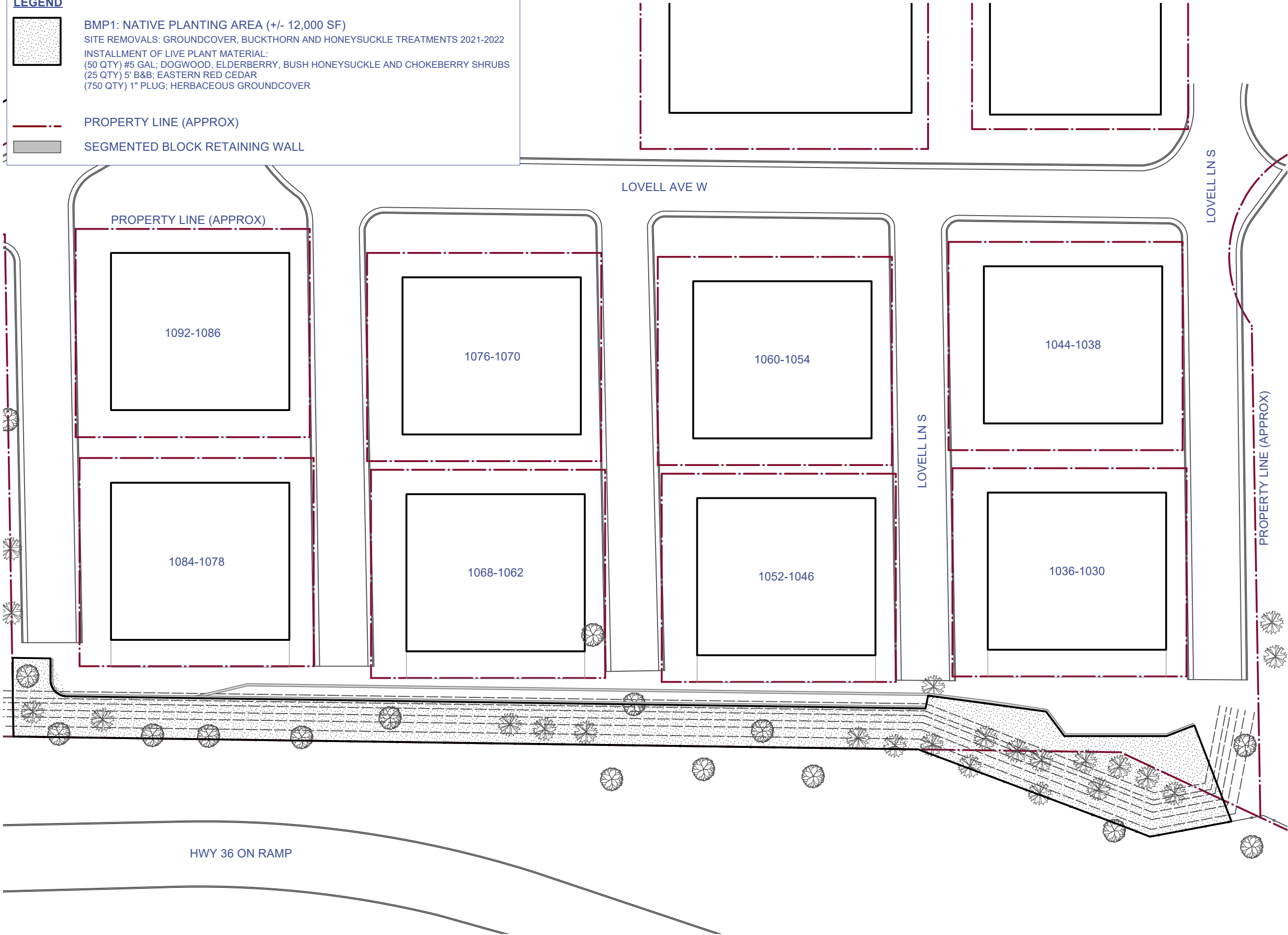
BMP1: NATIVE PLANTING AREA (+/- 12,000 SF)
SITE REMOVALS: GROUNDCOVER, BUCKTHORN AND HONEYSUCKLE TREATMENTS 2021-2022
INSTALLMENT OF LIVE PLANT MATERIAL:
(50 QTY) #5 GAL; DOGWOOD, ELDERBERRY, BUSH HONEYSUCKLE AND CHOKEBERRY SHRUBS
(25 QTY) 5' B&B; EASTERN RED CEDAR
(750 QTY) 1" PLUG; HERBACEOUS GROUNDCOVER



PROPERTY LINE (APPROX)



SEGMENTED BLOCK RETAINING WALL



RAMSEY COUNTY SWCD

1425 PAUL KIRKWOLD DR

ARDEN HILLS, MN 55112

651-266-7274

www.ramseycounty.us

PROJECT: GRANDVIEW TOWNHOMES

LOCATION:

LOVELL AVE W

ROSEVILLE, MN 55113

WATERSHED DISTRICT:



DESIGNER: MPS

DATE: 05/05/2021

REVISION:

REVISION:

REVISION:

REVISION:

REVISION:

CHECKED BY:

TAA:

NOTES:

CONTRACTOR TO LOCATE ALL
UTILITIES PRIOR TO WORK

UTILITIES WITHIN OR NEAR
CONSTRUCTION AREA SHALL BE
POTHOLED

CONTRACTOR MUST ACQUIRE ALL
NECESSARY PERMITS

ORIGINAL SHEET SIZE: 11" x 17"

SCALE: 1"=40'0"

SITE LAYOUT PLAN

L100



Stewardship Grant Application Summary

Project Name: O'Neill

Application Number: 21-19 CS

Board Meeting Date: 6/2/2021

Applicant Name: Ann O'Neill

Residential ☒

Commercial/Government ☐

Project Overview:

This project is located off Harriet Ave and Owasso St in the City of Shoreview. The applicant is proposing to install a rain garden with a trench drain at the end of their driveway. The rain garden will capture roof and driveway runoff as well as add pollinator plants to their yard.

This project is eligible for 75% funding up to \$15,000.

BMP type(s):

Rain Garden(1)

Grant Request:

\$5,535.00

Recommendation:

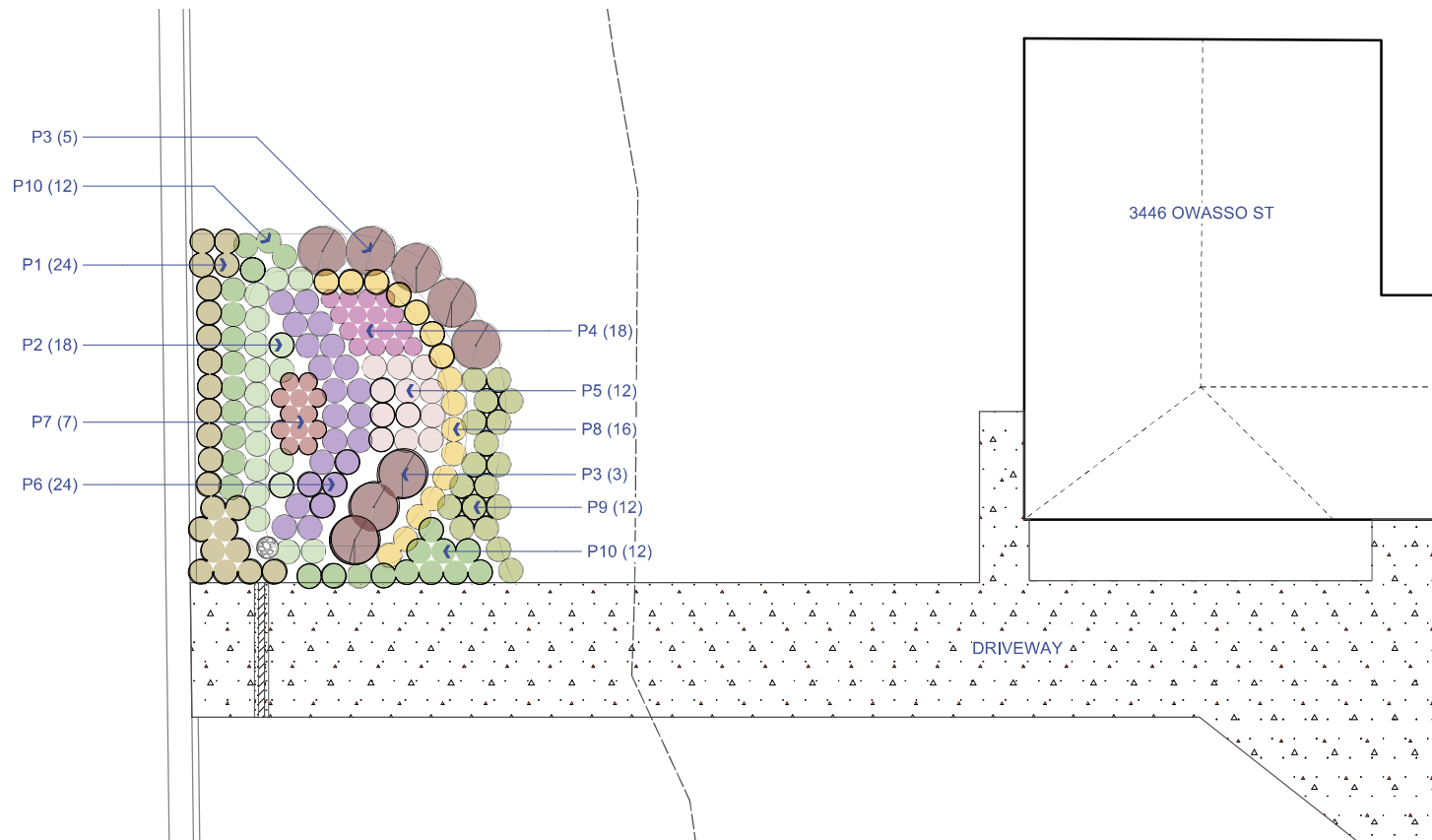
Staff recommends approval of this application.

Subwatershed:

Grass Lake

Location Maps:





PLANTING SCHEDULE					
ID	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING
P1	24	BOUTELOUA CURTIPENDULA	SIDEOTS GRAMMA	3.5" POT	24" O.C.
P2	18	CAREX VULPINOIDEA	FOX SEDGE	3.5" POT	24" O.C.
P3	8	CORNUS SERICEA 'FARROW'	ARCTIC FIRE DOGWOOD	#2 CONT	48" O.C.
P4	18	ECHINACEA PURPUREA 'RUBY STAR'	RUBY STAR CONEFLOWER	3.5" POT	18" O.C.
P5	12	EUPATORIUM MACULATUM 'PHANTOM'	PHANTOM JOE PYE WEED	3.5" POT	24" O.C.
P6	24	IRIS VERSICOLOR	BLUE FLAG IRIS	3.5" POT	24" O.C.
P7	12	LOBELIA CARDINALIS	CARDINAL FLOWER	3.5" POT	18" O.C.
P8	16	RUDBECKIA FULGIDA 'GOLDSTURM'	GOLDSTURM BLACK EYED SUSAN	3.5" POT	18" O.C.
P9	18	SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	3.5" POT	24" O.C.
P10	24	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	3.5" POT	24" O.C.
174		TOTAL			

RAMSEY COUNTY SWCD
 1425 PAUL KIRKWOLD DR
 ARDEN HILLS, MN 55112
 651-266-7274
www.ramseycounty.us

PROJECT: O'NEIL RESIDENCE
LOCATION:
 3446 OWASSO ST
 SHOREVIEW, MN 55126
WATERSHED DISTRICT:

DESIGNER: MPS
DATE: 3/31/2021
REVISION:
REVISION:
REVISION:
REVISION:
CHECKED BY:
TAA:

NOTES:
 ALL SUBSTITUTIONS OR CHANGES
 TO PLANT SPECIES, QUANTITIES
 AND SIZING SHALL RECEIVE APPROVAL
 PRIOR TO WORK START

ORIGINAL SHEET SIZE: 11" x 17"

SCALE: 1"=10'0"

PLANTING PLAN

N

L300

Stewardship Grant Application Summary

Project Name: Kohlman Chain LVMP Phase 3

Application Number: 21-20 CS

Board Meeting Date: 6/2/2021

Applicant Name: John James

Residential ☒

Commercial/Government ☐

Project Overview:

The associations for Kohlman, Gervais, Spoon and Keller Lakes are in the final stages of developing a Lake Vegetation Management Plan to show plant harvesting will benefit water quality of these lakes. The next steps in the process are to complete a delineation survey for curly leaf pondweed on Gervais and Kohlman Lakes. They will then pursue permits from the DNR to allow herbicide treatment on the lakes. They plan to mechanically harvest aquatic vegetation 2 weeks after the herbicide treatment. The survey work and mechanical harvesting are eligible for 50% coverage up to \$15,000. Herbicide treatment is not eligible for coverage.

BMP type(s):

Aquatic Vegetation Harvesting(1)

Grant Request:

\$8,460.00

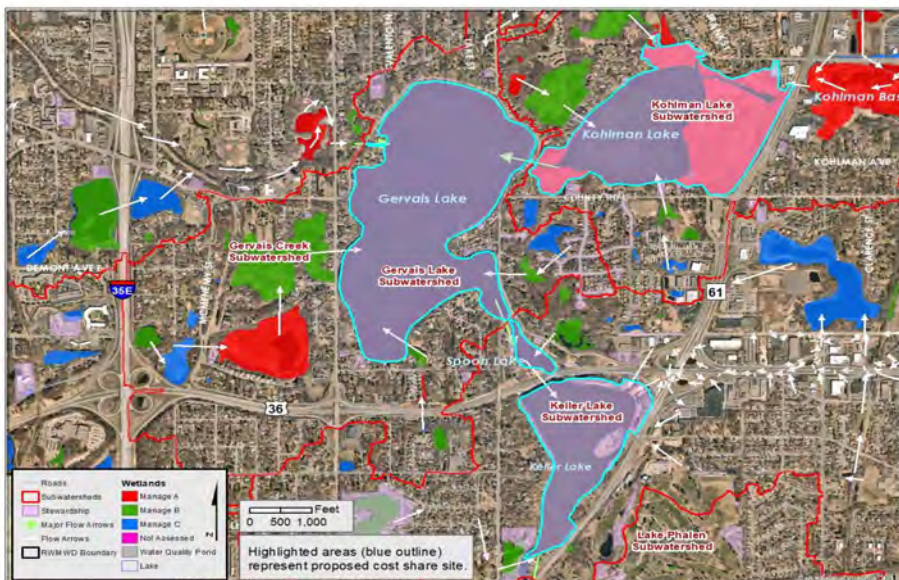
Recommendation:

Staff recommends approval of this application.

Subwatershed:

Gervais Lake, Keller Lake, Kohlman Lake

Location Maps:



Consent Agenda Action Item

Board Meeting Date: June 2, 2021

Agenda Item No: 3E

Preparer: Tina Carstens, Administrator

Item Description: Change Order No. 1 for the North St. Paul Target Store Retrofit Project

Background:

Attached is change order number 1 for the North St. Paul Target Store Retrofit Project. This change order includes a number of quantities changes based on better information and onsite conditions. The totality of the changes decreases the contract price of the project by \$4,027.02. The change order details can be found in the attached document.

Applicable District Goal and Action Item:

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

Action Items: Implement retrofit water quality improvement projects.

Staff Recommendation:

Approve Change Order No. 1.

Financial Implications:

This request decreases the contract price by \$4,027.02.

Board Action Requested:

Approve Change Order No. 1.

Change Order No. 1
Ramsey-Washington Metro Watershed District
North St. Paul Target Retail Store Stormwater Retrofits

DATE OF ISSUANCE: May 5, 2021

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

Contractor: Peterson Companies, Inc.
8326 Wyoming Trail
Chisago City, MN 55013
Attn: Jake Sikora, Johnathan Peterson

Engineer: Barr Engineering Company
4300 MarketPointe Drive, Suite 200
Minneapolis, MN 55435
Attn: Brad Lindaman, Katie Turpin-Nagel

C.O.1.A Issued for Construction Drawings and Specifications

Description of Change:

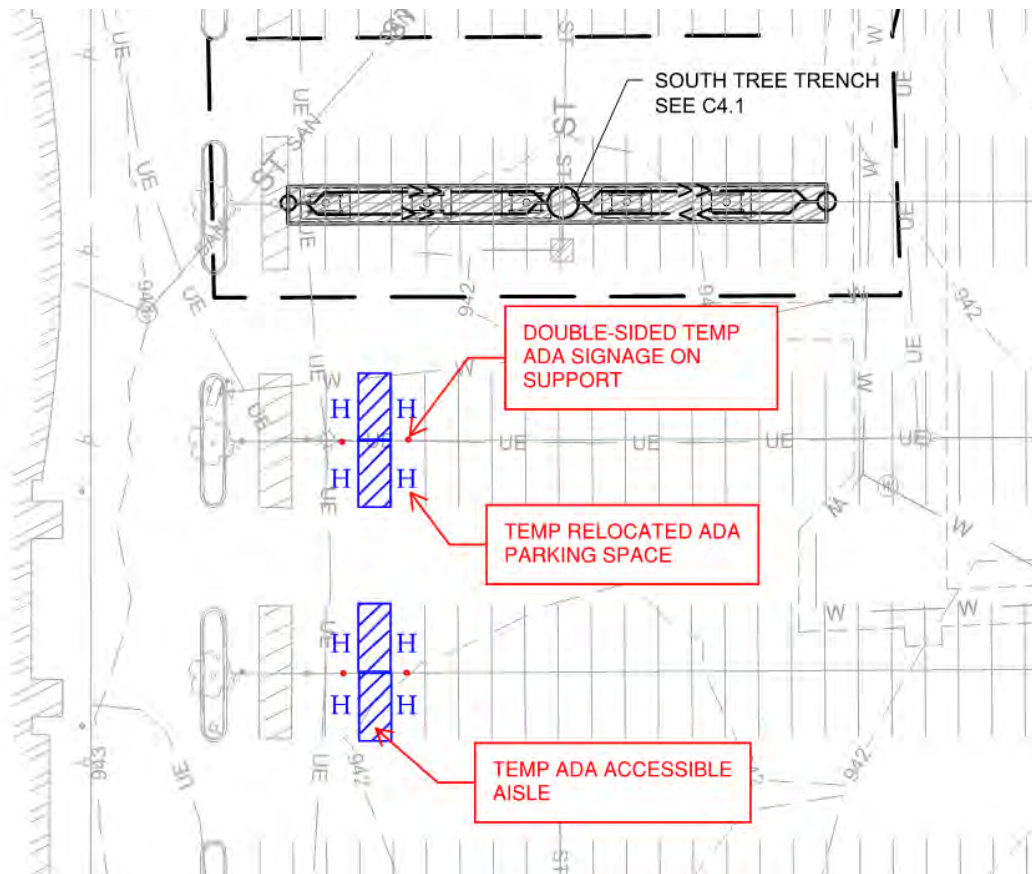
The entire set of construction drawings were re-issued as “Issued for Construction”. Any revisions to the construction drawings are clouded with revision 1 symbology. The specifications have been updated to address changes noted in Addendum 1 that occurred during Bidding.

C.O.1.B ADA Parking Spaces Relocation

Description of Change:

The temporary relocation of ADA parking spaces to outside of the construction limits will require the Contractor to perform additional work. This work will include:

- Installing 8 temporary ADA signs on 4 temporary supports that do not require bituminous saw cuts.
 - All signage shall conform to the Minnesota Manual on Uniform Traffic Control Devices (MUTCD).
- Installing, maintaining, and removing interim pavement markings to designate the 4 accessible aisles. The interim pavement markings shall be Removable Preformed Plastic Pavement Marking Tape in accordance with MnDOT 3355, or approved equal.



Bid Form and Base Bid:

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
C.O.1.b	ADA Parking Space Relocation	LS	1	\$2,333.55	\$2,333.55

Measurement and Payment:

Add the following to Section 01 22 00:

C.O.1.b ADA Parking Space Relocation

1. Method of Measurement: ADA Parking Space Relocation shall be measured on the basis of a single lump (L.S.) unit.
2. Basis for Payment: Contractor shall be paid a lump sum (L.S.) price for ADA Parking Space Relocation. The lump sum price shall include providing, maintaining, and removing all necessary signage, supports, and removable pavement markings to temporarily relocate ADA parking spaces located within the construction limits. This lump sum price shall be payment in full for the costs of all supervision, labor, materials, equipment, profit and overhead, and performing all operations as necessary to relocate the parking spaces, all complete as specified.

C.O.1.C Planting Soil (75% sand, 25% leaf compost – MnDOT Grade II) (P) Quantity

Description of Change:

This change corrects an error in the estimated bid quantity for planting soil (75% sand, 25% leaf compost – MnDOT Grade II) (P).

Bid Form and Base Bid:

Delete the following from Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
ZZ	Planting Soil (75% sand, 25% leaf compost – MnDOT Grade II) (P)	CY	281	\$59.15	\$16,621.15

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
ZZ	Planting Soil (75% sand, 25% leaf compost – MnDOT Grade II) (P)	CY	250	\$59.15	\$14,787.50

C.O.1.D ¾" Clean Washed Chip (Granite) Quantity

Description of Change:

This change corrects an error in the estimated bid quantity for ¾" Clean Washed Chip (Granite).

Bid Form and Base Bid:

Delete the following from Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
DDD	¾" Clean Washed Chip (Granite)	TON	43	\$67.09	\$2,884.87

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
DDD	¾" Clean Washed Chip (Granite)	TON	87	\$67.09	\$5,836.83

C.O.1.E 2" – 4" Clean Washed Angular Rock (Granite) Quantity

Description of Change:

This change reflects adjustments to the 2" – 4" Clean Washed Angular Rock (Granite) depth based on changes to the tree trench top of weir elevations and this change corrects an error in the estimated bid quantity.

Bid Form and Base Bid:

Delete the following from Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
AAA	2" – 4" Clean Washed Angular Rock (Granite)	TON	930	\$43.13	\$40,110.90

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
AAA	2" – 4" Clean Washed Angular Rock (Granite)	TON	800	\$43.13	34,504.00

C.O.1.F Filtration Soil Washed into 2" – 4" Rock (P)

Description of Change:

This change reflects adjustments to the 2" – 4" Clean Washed Angular Rock with washed in filtration soil depth based on changes to the tree trench top of weir elevations and this change corrects an error in the estimated bid quantity.

Bid Form and Base Bid:

Delete the following from Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
BBB	Filtration Soil Washed into 2" – 4" Rock (P)	CY	104	\$85.09	\$8,849.36

Add the following to Section 00 41 00 ARTICLE 4.01.A. BID ITEMS:

Bid Item	Description	Unit	Estimated Quantity	Unit Price	Estimated Cost
BBB	Filtration Soil Washed into 2" – 4" Rock (P)	CY	82	\$85.09	\$6,977.38

Change in Contract Time:


None

Total Impact on Contract Price:

These changes are anticipated to **lower** the contract price by **\$4,027.02**.

This Change Order No. 1 is:

Submitted By:
(ENGINEER)



Katelyn Turpin-Nagel, Project Engineer
Barr Engineering Company

Date: May 5, 2021

Authorized By:
(OWNER)

Lawrence Swope, President
Ramsey-Washington Metro Watershed District

Date: _____

Approved By:
(CONTRACTOR)



Jake Sikora, Project Manager
Peterson Companies, Inc.

Date: 5/13/2021

Consent Agenda Action Item

Board Meeting Date: June 2, 2021

Agenda Item No: 3F

Preparer: Tina Carstens, Administrator

Item Description: Change Order No. 2 for the 2021 CIP Maintenance & Repair Project

Background:

Attached is change order number 2 for the 2021 CIP Maintenance and Repair Project. This change order includes additional work requested by the city of North St. Paul while working in Margaret Pond. The contract price will increase by \$3,402.00 but this cost will be reimbursed by the city. Additional information is included in the attached information.

Applicable District Goal and Action Item:

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 Items: Maintain District flood storage facilities and storm sewer systems.

Staff Recommendation:

Approve Change Order No. 2.

Financial Implications:

This request increases the contract price by \$3,402. This increase will be reimbursed to the watershed district by the city of North St. Paul.

Board Action Requested:

Approve Change Order No. 2.

**Change Order No. 2
Ramsey-Washington Metro Watershed District
2021 Capital Improvement Project (CIP)**

DATE OF ISSUANCE: May 21st, 2021

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

Contractor: Fitzgerald Excavating & Trucking, Inc.
21432 350th Street
Goodhue, MN 55027
Attn: Jason Fitzgerald

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

C.O.2.A Additional Earthwork for North St. Paul

Description of Change:

While the contractor was mobilized at Site #12 (Margaret Pond, North St. Paul), the city requested that additional grading be performed, to minimize steep slopes. North S. Paul agreed to provide the additional topsoil for Fitzgerald Excavating to grade and stabilize.

The contractor performed the work in good faith as directed by the owner's representative while equipment was mobilized onsite to minimize cost. The attached documents provide the contractor's quote and the load tickets from North St. Paul for volume of topsoil placed. All work at this site, including what is described in this change order, will be reimbursed to RWMWD at project close per preexisting agreement with the city of North St. Paul.

Measurement and Payment:

This work was performed on a unit cost basis per cubic yard (C.Y.). The unit price was based on the attached quote provided on April 30th, 2021 by Fitzgerald Contracting & Trucking, Inc.

Change in Contract Time:

None

Total Impact on Contract Price:

The dollar amount to complete the work of placing 252 cubic yards at \$13.50 per cubic yard as described above is \$3,402.00

This cost will be reimbursed to RWMWD by North St. Paul.

(Attachment: contractor quote and North St. Paul load tickets)

This Change Order No. 1 is:

Submitted By:
(ENGINEER)



Bradley J. Lindaman, Project Engineer
Barr Engineering Company

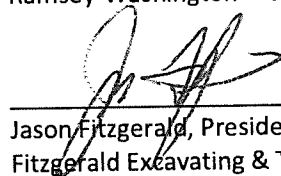
Date: May 24, 2021

Authorized By:
(OWNER)

Lawrence Swope, President
Ramsey-Washington Metro Watershed District

Date: _____

Approved By:
(CONTRACTOR)



Jason Fitzgerald, President
Fitzgerald Excavating & Trucking, Inc.

Date: 5/26/2021

* * * * *

Permit Program

* * * * *

Permit Application Coversheet

Date June 02, 2021

Project Name Woodbury Edgewood Culvert Replacement Project Number 21-15

Applicant Name Emily Stephens, City of Woodbury

Type of Development Maintenance

Property Description

This project is located where Edgewood Avenue meets Battle Creek in the City of Woodbury. The applicant is proposing to replace the retaining wall and culvert in this area where the existing wall is currently failing. The total site area is 0.12 acre but triggers a District grading permit for fill proposed in the floodplain. A variance request has been submitted (Rule D) for compensatory storage. The modeling analysis submitted shows a slight increase in 100-year high water levels between Edgewood Ave and Century Ave, however all habitable structures in the area have adequate freeboard from the creek. The applicant has also submitted an erosion and sediment control plan because more than 1,000 square feet of disturbance is proposed adjacent to the creek (Rule F).

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 checked="" type="checkbox"/> <i>Floodplain</i> |

Water Quantity Considerations

A variance request is being submitted for fill in the floodplain, however freeboard requirements for habitable structures are met adjacent to the creek.

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 the permit with the special provisions and variance request (Rule D).

Attachments:

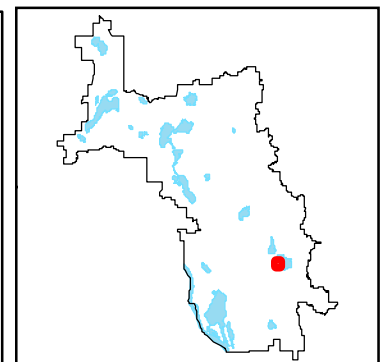
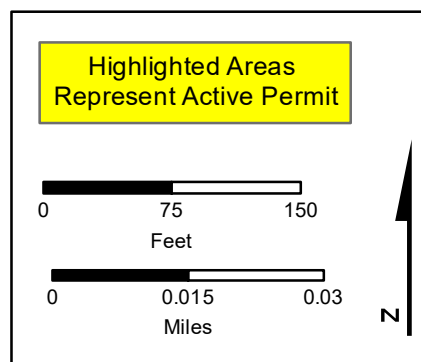
- ☒ Project Location Map
- ☒ Project Grading Plan

#21-15 Woodbury Edgewood Culvert Replacement



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

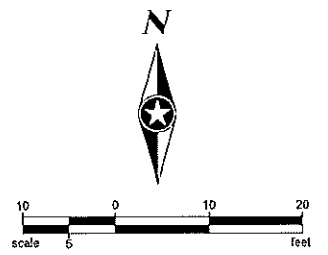
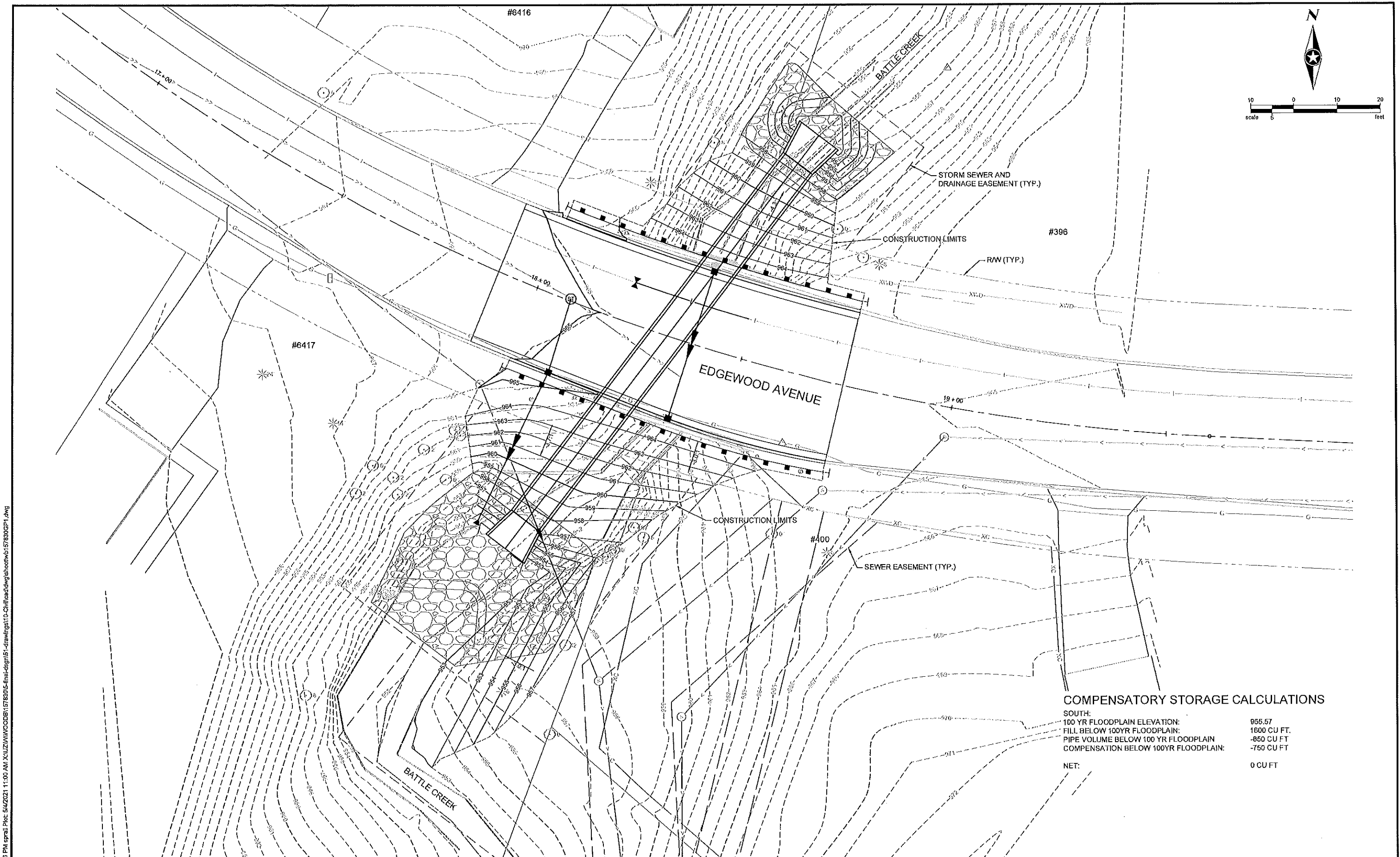
	RWMWD Boundary
→	Flow Arrows
→	Major Flow Arrows
	Subwatersheds
—	Creeks
	Permits



Special Provisions

1. The applicant shall label the 100-year water surface elevations (upstream and downstream) on Sheets 8 and 9.
2. The applicant shall add a note to the plans to notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 prior to beginning any and all construction activity to schedule an initial erosion control inspection.
3. The applicant shall add a note to the plans that the specified erosion and sediment control practices are the minimum. Additional practices may be required during the course of construction.
4. The applicant shall submit the final, signed plans set.

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COMPENSATORY STORAGE CALCULATIONS

SOUTH:	
100 YR FLOODPLAIN ELEVATION:	955.57
FILL BELOW 100YR FLOODPLAIN:	1600 CU FT.
PIPE VOLUME BELOW 100 YR FLOODPLAIN:	-850 CU FT
COMPENSATION BELOW 100YR FLOODPLAIN:	-750 CU FT
NET:	0 CU FT

MEMORANDUM

TO: Ramsey Washington Metro Watershed District

FROM: Mark Christenson EIT; Jeremy Walgrave, PE

DATE: May 12, 2021

RE: Edgewood Avenue Culvert Replacement
SEH No. WOODB-157830 14.00

INTRODUCTION AND BACKGROUND

The City of Woodbury is planning to replace the retaining wall and culvert over Battle Creek on Edgewood Drive. The culvert is located between Meadow Lane and Sherrie Lane near Battle Creek Lake. The existing retaining wall is failing. **Appendix B** includes photos of the existing retaining wall and photos of the downstream outlet structure and upstream culvert.

Rather than replacing the retaining wall, the City intends to replace the retaining wall with fill slopes and to replace the existing 37.8' long 88 in X 54 in RCP arch pipe with a 104.3' long 88 in X 54 in RCP arch pipe. The increased pipe length is due to replacing the retaining wall with fill slopes. A rock weir will be installed at the downstream end of the pipe to aid in fish passage because the downstream end of the pipe cannot be buried below the streambed due to an existing shallow sanitary sewer.

RULE D: FLOOD CONTROL

The project will include placement of 2470 CF of fill on the north side of Edgewood and 1600 CF on the south side of Edgewood Drive. Rule D states that placement of fill within the 100-yr floodplain is prohibited unless compensatory storage is provided. Full compensatory volume will be provided on the south side of Edgewood drive but cannot be provided on the north side of Edgewood drive, thus a variance from Rule D.3(a)(1) is being requested.

3. CRITERIA.

(a) Placement of fill within the 100-year floodplain is prohibited unless compensatory storage is provided. Compensatory storage must be provided on the development or immediately adjacent to the development within the affected floodplain.

- (1) Compensatory storage shall result in the creation of floodplain storage to fully offset the loss of floodplain storage. Compensatory storage shall be created prior to or concurrently to the permitted floodplain filling.*

Achieving the compensatory storage requirement north of Edgewood Drive is not feasible due to steep and shady slopes along the banks of Battle Creek. Incorporating compensatory fill here would require removing trees and destabilizing the slopes, creating the risk for erosive conditions in the future. The City is requesting a Variance of Rule D for the 2470 CF of fill placed within the 100-yr floodplain north (upstream) of Edgewood Drive.

HARDSHIP

- Doing Nothing is not feasible because the existing retaining wall is failing and will jeopardize the road and existing utilities.
- Replacing with another retaining wall is not feasible. Rebuilding the retaining wall would cause significant temporary impacts to Battle Creek during construction that would require more intensive restoration and mitigation after the retaining wall is constructed. Additionally, the current retaining wall includes a safety fence to prevent people from falling off of the retaining wall and getting hurt. The fill slope is a much safer option.
- Placement of fill in the floodplain is required in order to build up the fill slopes to a level that would maintain stability. Compensatory volume has been provided on the south side of Edgewood Avenue in compliance with Rule D.
- Compensatory excavation to mitigate for the remaining floodplain fill is not feasible north of Edgewood Avenue, because the existing channel banks are steep and wooded. Currently the tree roots are the vegetation providing channel stability and any compensatory volume excavation would require removal of several of these trees. Removing the trees and excavating out the steep slopes would create an unstable condition where bank erosion and eventual failure would be likely. Because of this, providing the remaining compensatory volume is not feasible and would create a potential future erosion and slope stability risk.
- Installing a larger pipe was considered to add additional compensatory volume as well as improve fish passage. This option is not feasible because it would cause an increase downstream (up to 0.8 ft) The option also caused an increase downstream of Century Avenue, which is a FEMA Zone A Floodplain, which would then require a letter of map revision submission to FEMA.

PROJECT CONDITIONS AND IMPACTS

FEMA Floodplain

The Battle Creek floodplain in this area is Zone X, area of minimal flood hazard. The area downstream of Century Avenue is mapped as a FEMA Zone A floodplain. The MN/DNR provides the following guidance for changes in stage due to bridge and culvert replacements in Zone A floodplains: *If the stage increase for the proposed structure is equal to or less than for existing structure, no submission to FEMA is required, and the Community must keep the hydraulic data on file.* Because of this, any modifications to the Edgewood Avenue culvert should avoid causing a rise in the floodplain downstream of Century Avenue.

Battle Creek H&H Analysis Using RWMWD Modeling Information

Battle Creek Flows from Battle Creek Lake to Pigs Eye Lake. The drainage area at the outlet of Battle Creek Lake is 7.86 square miles. The drainage area just downstream of Edgewood Avenue is 7.87 square miles, and the drainage area is 8.6 square miles at the outlet of Battle Creek to Pigs Eye Lake.

The Ramsey Washington Metro Watershed District's (RWMWD) XPSWMM watershed model was provided by Barr Engineering. This model was used to produce a proposed conditions XPSWMM model with the new culvert and reduced floodplain storage. The provided existing conditions model and modified proposed conditions model were used to assess the project's impact on the computed 100-yr peak water levels. **Table 1** provides a summary of the results for the model nodes between Edgewood Avenue and Century Avenue plus the node representing the upstream end of the Edgewood Avenue culvert. **Appendix A** provides summary tables for the model nodes between Edgewood Avenue and Century Avenue and tables summarizing the 2 links representing the Edgewood culvert. The full model results will also be provided as text documents. The tables in **Appendix A** curate those results as the model provided for analysis contains nearly 1,000 nodes and over 1,200 links. The nodes downstream of Century Avenue are not included for simplicity and due to these showing effectively no-rise. **Figure 2**

shows the relative changes between the existing and proposed 100-yr HWL. **Figure 4** shows the proposed 100-yr high water elevations.

Table 1: 100-yr HWL summary

	Existing 100-yr HWL	Proposed 100-yr HWL	Rise [ft]
C-19A	949.20	949.26	0.07
C-19B	949.44	949.50	0.06
Node083	949.47	949.53	0.06
C-19C	952.24	952.24	0.00
C-19D	955.64	955.64	0.00
Node086.1	956.81	956.87	0.05
Node086	957.03	956.89	-0.14
C-19E	958.23	958.23	0.00
C-19F	959.28	959.28	0.00

The table shows that there is a modest increase in 100 yr HWLs between Edgewood Avenue and Century Avenue. The highest increase is shown at Node C-19A with a 0.07' increase. Anytime an increase in the 100-yr floodplain is observed it is important to consider the surrounding properties and assess them for an increase in flood risk. The property at 448 Meadow Lane is closest to the proposed floodplain. Based off of the City of Woodbury contour data, the structure at this property has a freeboard of approximately 6.4 feet. The majority of the other properties in this area have freeboard from the proposed 100 yr floodplain of greater than 20 feet. **Figure 4** shows the surrounding properties with their approximate low floor elevation compared to the proposed floodplain.

OTHER APPLICABLE RWMWD RULES

If the requested variance is given for the Rule D Flood Control provisions, the Rule F Erosion and Sediment Control provisions will also apply to the project. Rule C Stormwater Management does not apply.

Rule C: Stormwater Management

The proposed project will disturb approximately 8,438 square feet (0.19 acres). A Rule C Stormwater Management permit is only required if a project were to disturb 1 acre or more of land, therefore Rule C does not apply to the proposed project.

Rule F: Erosion and Sediment Control

The proposed project will disturb approximately 0.19 acres of land. The project will require a Rule F Erosion and Sediment Control permit because the project disturbs an area greater than 1,000 square feet and is within the 100-year floodplain, per Rule F.5(a)(1).

Erosion and sediment control practices include, silt fence, seeding, floating silt curtain, sediment control log, riprap and inlet projection.

MAC

Attached: Appendix A, Appendix B, Figures, RWMWD Permit Application Checklist, XPSWMM results
c:Jeremy Walgrave, PE Chad Setterholm, PE

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APPENDIX A: MODEL RESULTS TABLES

Table 2: 2-year HWL summary

	Existing 2-yr HWL	Proposed 2-yr HWL	Rise [ft]
C-19A	945.08	945.10	0.02
C-19B	946.20	946.22	0.01
Node083	946.35	946.38	0.03
C-19C	950.38	950.42	0.04
C-19D	953.57	953.60	0.03
Node086.1	955.01	955.11	0.10
Node086	955.27	955.13	-0.13
C-19E	955.60	955.47	-0.13
C-19F	955.84	955.72	-0.12

Table 3: 10-year HWL summary

	Existing 10-yr HWL	Proposed 10-yr HWL	Rise [ft]
C-19A	946.11	946.13	0.02
C-19B	947.03	947.04	0.02
Node083	947.16	947.18	0.02
C-19C	951.44	951.45	0.01
C-19D	954.35	954.36	0.01
Node086.1	955.68	955.75	0.08
Node086	955.92	955.78	-0.14
C-19E	956.44	956.31	-0.13
C-19F	956.81	956.71	-0.11

Table 4: 100-year HWL summary

	Existing 100-yr HWL	Proposed 100-yr HWL	Rise [ft]
C-19A	949.20	949.26	0.07
C-19B	949.44	949.50	0.06
Node083	949.47	949.53	0.06
C-19C	952.24	952.24	0.00
C-19D	955.64	955.64	0.00
Node086.1	956.81	956.87	0.05
Node086	957.03	956.89	-0.14
C-19E	958.23	958.23	0.00
C-19F	959.28	959.28	0.00

Table 5: Flow Summary for Edgewood Culvert

	2-year Flow		10-year Flow		100-year Flow	
	Existing	Proposed	Existing	Proposed	Existing	Proposed
CLink006	96.968	98.7389	147.083	147.7696	252.052	250.5776
CLink007	96.994	98.7725	147.117	147.8038	252.07	250.596

Table 6: Velocity Summary for Edgewood Culvert

	2-year Velocity		10-year Velocity		100-year Velocity	
	Existing	Proposed	Existing	Proposed	Existing	Proposed
CLink006	4.522	4.6206	5.795	5.8172	9.815	9.7557
CLink007	4.779	4.7565	6.013	5.9658	9.83	9.7701

APPENDIX B: EDGEWOOD CULVERT PHOTOS



Upstream of Culvert

Engineers | Architects | Planners | Scientists

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

651.490.2000 | 800.325.2055 | 888.908.8166 fax | sehinc.com

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Upstream entrance of culvert



Upstream of culvert



Downstream exit of culvert



Retaining wall on downstream side of culvert



Retaining wall and downstream exit of culvert



Path: C:\Projects\WOODB-157830\GIS\MXD\WOODB-157830_Figures\Fig01_Project_Location.mxd



3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110
PHONE: (651) 490-2000
FAX: (888) 908-8166
TF: (800) 325-2055
www.sehinc.com

Project: WOODB-157830
Print Date: 5/6/2021

Map by: mchristenson
Projection: Washington County
Source: City of Woodbury, SEH

Project Location

Edgewood Ave Retaining Wall Improvement
Woodbury, MN

Figure
1

This map is neither a legally recorded map nor a survey map and is not intended to be used as one. This map is a compilation of records, information, and data gathered from various sources listed on this map and is to be used for reference purposes only. SEH does not warrant that the Geographic Information System (GIS) Data used to prepare this map are error free, and SEH does not represent that the GIS Data can be used for navigational, tracking, or any other purpose requiring exacting measurement of distance or direction or precision in the depiction of geographic features. The user of this map acknowledges that SEH shall not be liable for any damages which arise out of the user's access or use of data provided.



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Project: WOODB-157830
Print Date: 5/10/2021

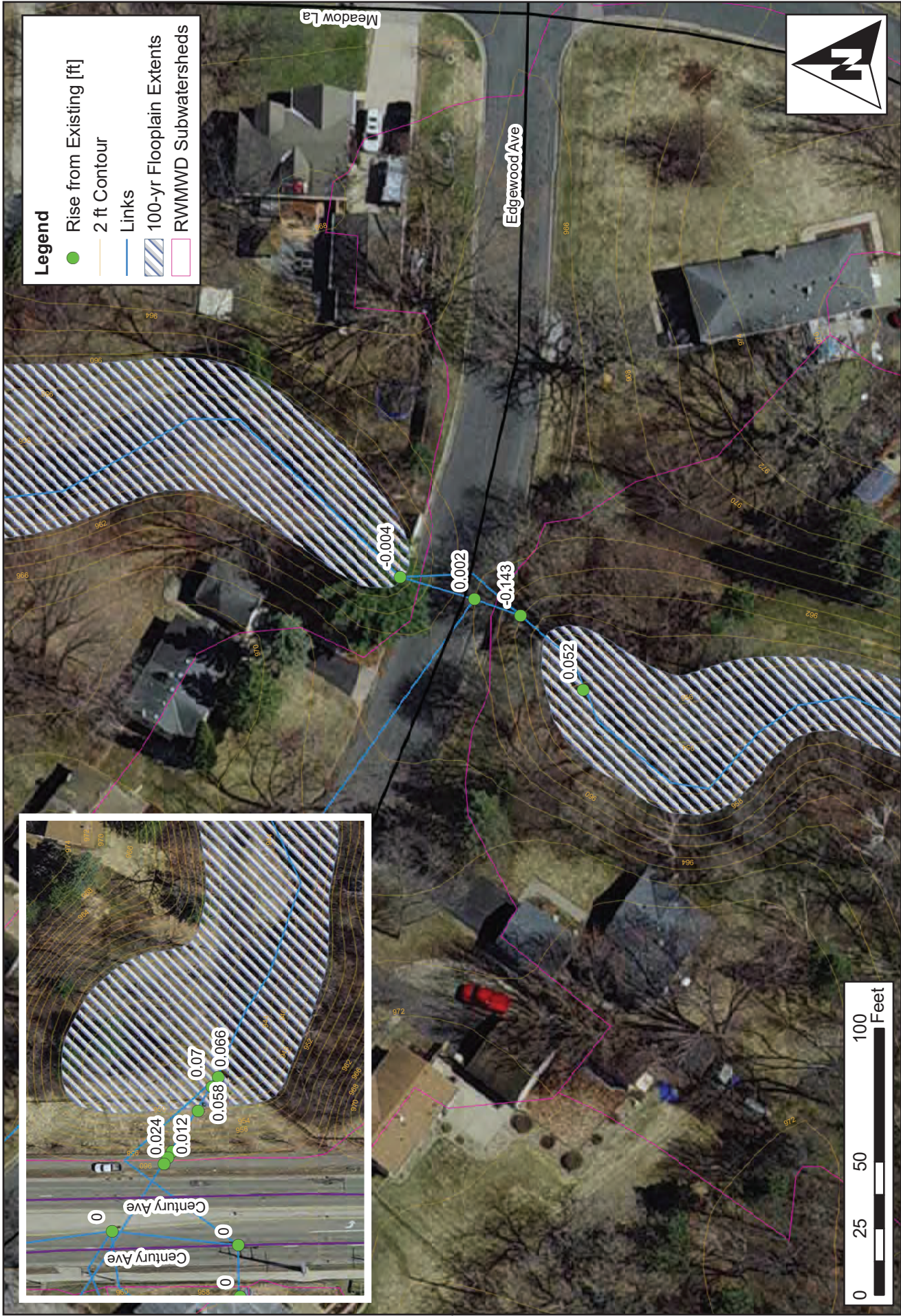
Map by: mchistenson
Projection: Washington County
Source: MfGeo, WSB

Proposed Conditions Rise

Edgewood Avenue Culvert/Retaining Wall Replacement

Woodbury, MN

Figure 2



3535 VADNAIS CENTER DR.
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FAX: (888) 308-8166
TF: (800) 325-2055
www.sehinc.com

Project: WOODB-157830
Print Date: 5/10/2021

Map by: indistenson
Projection: Washington County
Source: MiroGeo, WSB

Proposed Conditions Rise Edgewood Avenue Culvert/Retaining Wall Replacement Woodbury, MN

Figure
3

This map is neither a survey nor a map and is not intended to be used as one. This map is a compilation of records, information, and data gathered from various sources based on this map and is to be used for reference purposes only. SEH does not warrant that the geographic information system (GIS) data used to prepare this map are error free, and SEH does not represent that the GIS Data can be used for navigational, tracking, or any other purpose requiring exacting measurement of distance or direction or precision in the depiction of geographic features. The user of this map acknowledges that SEH shall not be liable for any damages which arise out of the user's access or use of data provided.



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www.sehinc.com

Project: WOODB-157830
Print Date: 5/10/2021

Map by: mchistenson
Projection: Washington County
Source: MxGeo, WSB

Proposed Floodplain **Edgewood Avenue Culvert/Retaining Wall Replacement** **Woodbury, MN**

Figure
4

Permit Application Coversheet

Date June 02, 2021

Project Name Metro Transit Gold Line BRT

Project Number 21-16

Applicant Name Christine Beckwith, Metro Transit

Type of Development Linear

Property Description

This project is located from approximately downtown St. Paul to Hadley Avenue along I-94, then north to 4th Street in Oakdale, then south on Bielenberg Drive in Woodbury, ending at a future Park and Ride station at I-494. The BRT (Bus Rapid Transit) corridor will consist of 7 miles of dedicated guideway with 3.2 miles of mixed traffic roadways through the cities of St. Paul, Maplewood, Landfall, Oakdale, and Woodbury. The total site area is approximately 224 acres. The western-most portion of the project from approximately downtown St. Paul to Earl Street is located within Capitol Region Watershed District (CRWD) and will be permitted separately through that watershed, although the vast majority of stormwater treatment for the project as a whole will occur in Ramsey-Washington (RWMWD). The project will consist of constructing and reconstructing roadways, station areas, pedestrian and bicycle access ways, and park-and-ride facilities.

34 Best Management Practices (BMPs) are proposed within RWMWD to exceed stormwater treatment requirements, including infiltration basins, filtration basins, dry detention ponds, wet detention ponds, underground storage systems, and structural pollutant control devices for pretreatment. Filtration is being proposed where needed due to various site conditions. Additional volume will be banked with various municipalities for future projects. Finalized banked credits and BMP maintenance responsibilities will require documentation with the watershed districts; discussion is ongoing.

A rate control variance request (Rule C) is included for board consideration. There are two locations where modeling shows slight increases in rates (3M and Tamarack Reserve). In both cases, the 100-year rate control requirements are met. The applicant proposes these increases will not have negative impacts downstream, however District staff will require confirmation that the localized increases are reviewed and approved by the owners of the respective storm sewer systems before the permit can be issued.

The project includes fill proposed in the 100-year floodplain of Battle Creek Lake and a wetland in the 4th Street/Helmo area in Oakdale. In both cases, compensatory storage is being provided such that there is no net loss of flood storage on the landscape as a result of this project.

A wetland replacement plan (#19-21 WCA) was approved by the RWMWD Board of Managers on 2/5/20 for 0.61 acre permanent and 0.34 acre temporary wetland impacts. 2:1 mitigation is accounted for through the purchase of banked credits. Additionally, the applicant has included a variance request for wetland buffer impacts (Rule E) in three locations. The request is included for board consideration. The applicant proposes that due to the design constraints and space limitations, these permanent and temporary impacts could not be avoided. Temporarily disturbed areas will be restored with native vegetation. A copy of the Wetland Conservation Act (WCA) Notice of Decision is enclosed for reference.

The applicant has submitted an erosion and sediment control plan and draft Stormwater Pollution Prevention Plan (SWPPP). Due to the scale of the project, the SWPPP is under review

by the Minnesota Pollution Control Agency (MPCA) and will require approval on the state level prior to permit issuance.

Watershed District Policies or Standards Involved:

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

Water Quantity Considerations

The applicant has submitted a variance request for two subwatersheds' rate increases for the 2 and 10 year events.

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.

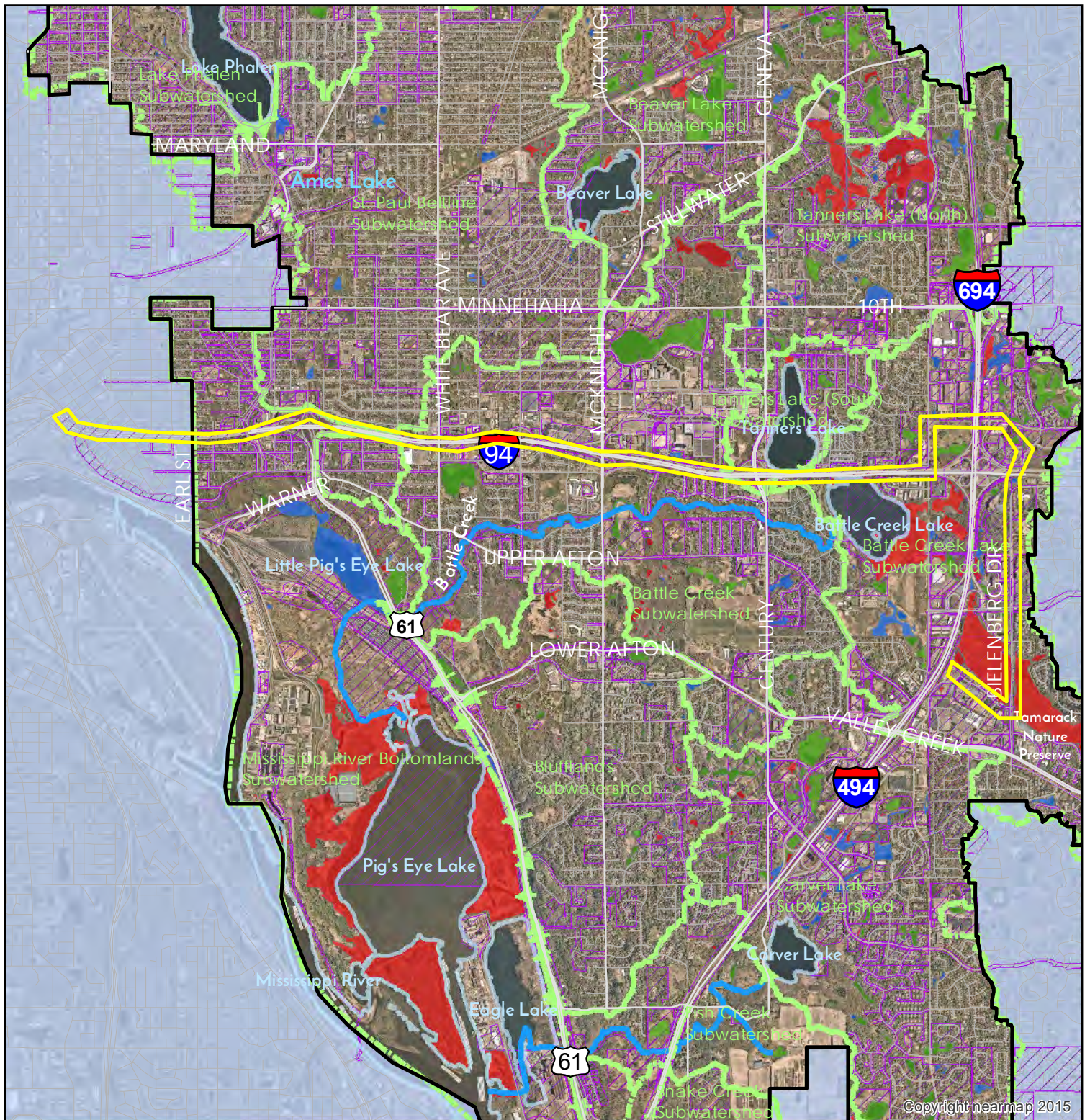
Staff Recommendation

Staff recommends approval of the permit with the special provisions and variance requests (Rules C, E).

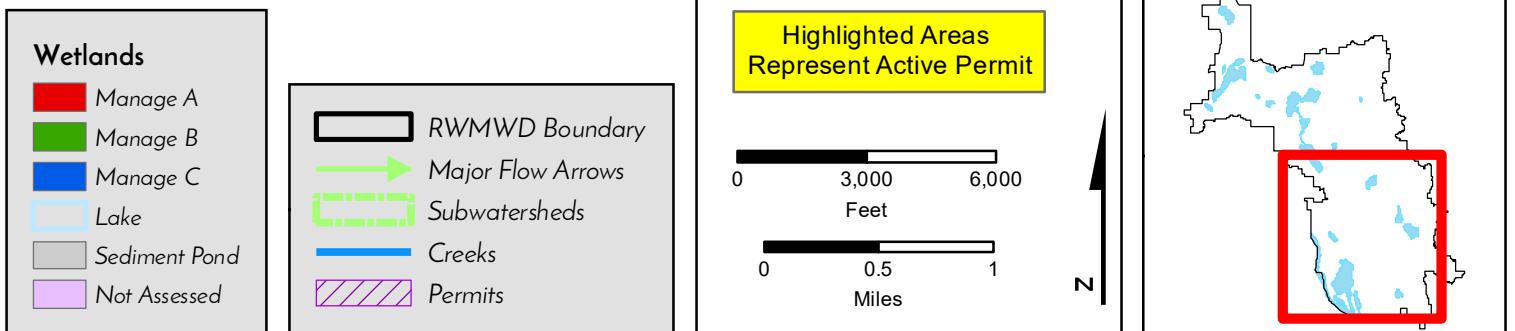
Attachments:

- ☒ Project Location Map
- ☐ Project Grading Plan

#21-16 Metro Transit Gold Line BRT



Note: Shaded area is outside RWMWD



Special Provisions

1. The applicant shall provide an electronic file of subwatershed divides.
2. The applicant shall provide an electronic file of storm sewer modifications with attributes.
3. The applicant shall provide documentation that the proposed change in discharge rates for the 2-year and 10-year events at 3M and Tamarack Preserve have been reviewed and approved by owners of the respective storm sewer systems, the existing storm sewer systems have capacity, and there are no adverse impacts to downstream infrastructure.
4. The applicant shall submit the final, signed plans.
5. The applicant shall confirm final individual BMP maintenance responsibilities via written confirmation for public entities covered under MOUs or executed agreements for privately owned facilities.
6. The applicant shall confirm the final banked volume reduction credit request in a table form. If necessary, submit agreements between cities for transfer of banked credits.
7. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit coverage for the project.
8. The applicant shall submit the final Stormwater Pollution Prevention Plan (SWPPP) upon state approval.

Memorandum

To: Ramsey-Washington Metro Watershed District Board of Managers

From: David Filipiak, PE

Date: May 25, 2021

Subject: GBRT – Rate Variance Request (Rule C)

Background

The GBRT project is on the cusp of finishing design and intends to start construction in 2022. During the more than 3-year design process the team and stakeholders worked together to meet regulatory requirements for water and natural resources, historic properties, endangered species, etc. The submitted RWMWD permit application contains much more detail on the project.

Rate Variance Locations

There are two subwatersheds where the hydrologic and hydraulic modeling shows slight increases in proposed rates from existing rates. Each is explained below.

3M

The project meets the 10 and 100-year existing rates at this subwatershed location but is slightly higher (182.0 cfs existing verses 182.4 cfs proposed). Stormwater management in the portion of the guideway south of the 3M building includes two significant underground chamber systems. These systems were chosen for filtration and rate control for consistency with other systems built by 3M but more importantly to respect the historical significance of the 3M Center. The design team has made numerous adjustments to the design of this facility to meet existing discharge rates but found the options to further limit the 2-year storm for this complex underground system challenging.

Tamarack Reserve (Guider Avenue)

The combined outfalls to the Tamarack Reserve models show a slight increase in the 2 and 10-years events (2-year 23.3 cfs existing verses 25.2 cfs proposed/10-year 46.8 cfs existing verses 48.3 cfs proposed). These outfalls are located in the area of the Guider Drive/Bielenberg Drive intersection. The Project is reconstructing Guider Drive from Bielenberg Drive to Queens Drive, modifying a few catch basins and storm sewer leads within this area. In addition, a pedestrian trail is being added along Guider from Bielenberg to Woodlane Drive, with no change to the storm sewer system.

Hydrologic and hydraulic modeling is reported for discharge rates from the project area, which discharge to existing ponds build for Woodbury Village and the Woodbury Village Apartments in

the mid 1990's. The ponds have not been included in the models but are expected to mitigate for the minor increases in the 2 and 10-year storm events.

Rate Control Variance Request

As noted above, there are two subwatersheds where modeling shows increases for the 2-year and 10-year storm event. These increases are fairly small and are not expected to have a negative impact to the downstream systems. We request the design be approved as submitted.

Memorandum

To: Ramsey-Washington Metro Watershed District Board of Managers
From: David Filipiak, PE
Date: May 21, 2021
Subject: GBRT – Wetland Buffer Variance Request (Rule E)

Background

The GBRT project is on the cusp of finishing design and intends to start construction in 2022. During the more than 3-year design process the team and stakeholders worked together to meet regulatory requirements for water and natural resources, historic properties, endangered species, etc. The submitted RWMWD permit application contains much more detail on the project.

Wetland Buffer Variance Locations

There are three locations where wetland buffer variances are being requested. There are two scenarios where buffer variances are being requested, including areas where the project directly impacts existing wetlands and the associated buffer and where the project is within the buffer of a wetland not being directly impacted.

Buffers with Direct Wetland Impacts

In 2019 the project applied for and received both local and federal wetland permits which results in impacts to existing buffers. Impacts were primarily the result of roadway construction, with significant work to minimized wetland impacts. This information is documented in the BWSR Notice of Decision (11.05.19) and the US Army Corps of Engineers File 2014-00621-MMJ dated 3.06.2020 (included in the RWMWD permit application submittal)

Permanent or Temporary Impacts to Buffers with no Adjacent Wetland Impacts.

There are two locations along the corridor where permanent buffer impacts occur.

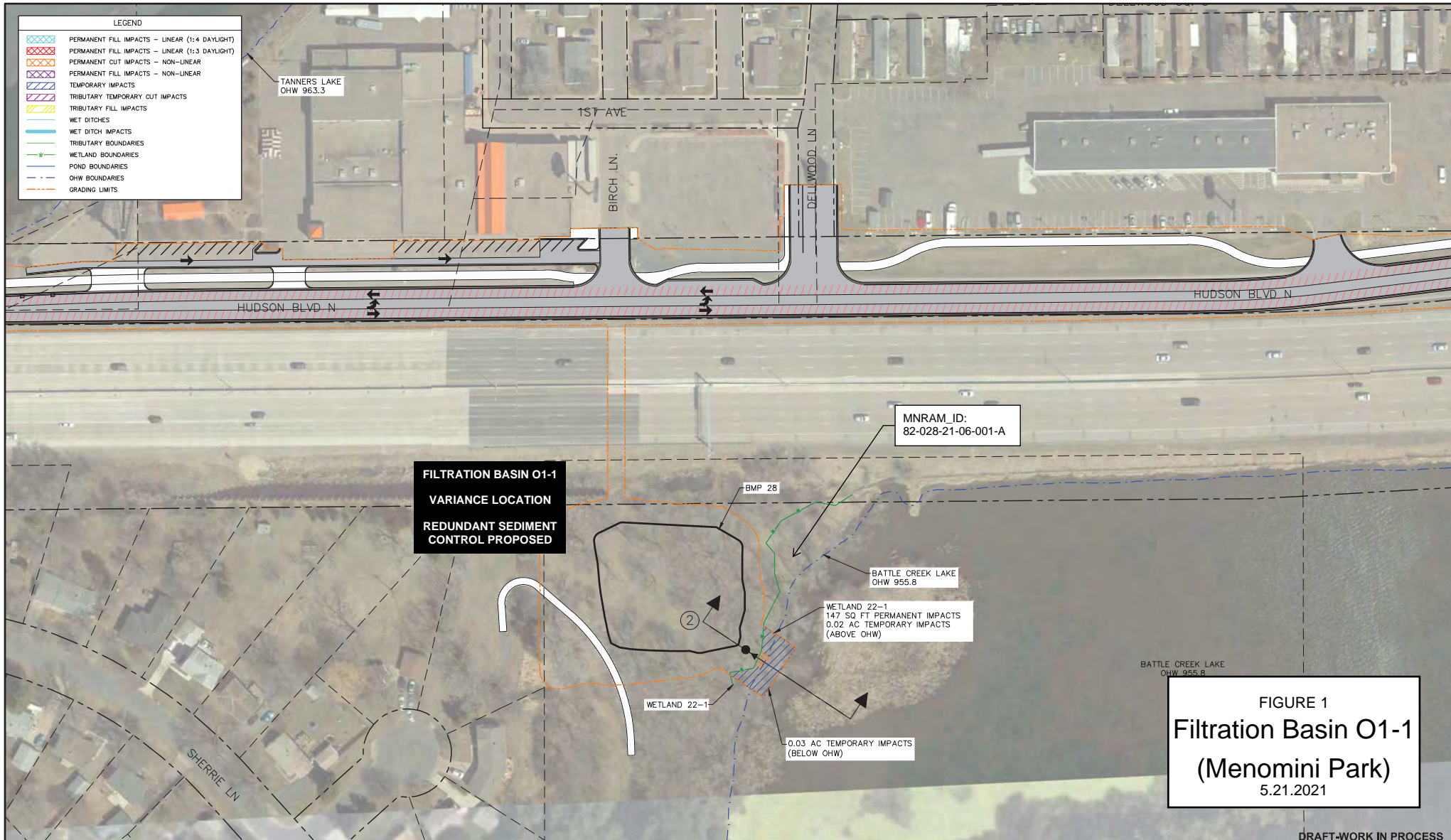
1. Filtration Basin O1-1 (Menomini Park – permanent impact - Figure 1). This BMP impacts the buffer in the northwest corner of Battle Creek Lake. Impacts involve removal of existing vegetation, construction of a small berm for the filtration portion of the BMP and seeding with native vegetation. This BMP is an integral part of the stormwater management in a very challenging portion of the project. Significant coordination with several local, state and federal agencies was involved with securing this site.

Note that minor impacts to the wetland were identified in the 2019 wetland permit process to construct the outfall from the BMP.

2. ABI Pond Outfall (temporary impact – Figure 2). Hudson Road in the vicinity of the ABI Pond outlet is being widened to accommodate the guideway and a trail. The widening is constrained to the south by the TH94 corridor but was pushed as far south as possible. The result is a need to reconstruct the pond outlet structure north of the current position which impacts the buffer of the existing pond. The banks will be replanted with native grasses consistent with a pond slope.
3. Floodplain Mitigation near Wetland 48-1 (temporary impact – Figure 3). Floodplain impacts and compensatory storage was identified during the wetland permitting process in 2019, with the construction plans finalizing the grading. Existing vegetation will be removed for mass grading to occur. The final grade will be fairly close to the elevation of the adjacent wetland and will be planted with a wet native mix.

Wetland Buffer Variance Request

As noted above, there are three locations along the corridor that impact wetland buffers in addition to those impacted with previously identified and approved wetland impacts. The project design team has worked diligently to avoid existing wetland and buffer impacts but with linear projects find it impossible to avoid minor impacts to buffers. We request a variance to allow the project to be built as designed, which includes establishment of native vegetation consistent with road and BMP embankments as well as the expected wet zone of the floodplain mitigation area.



May, 21 2021 01:33 pm \\argroup\loc\Shares\PDF\Jdata\Jfolders\Desktop\WetlandBufferFigures\Sey4-WetlandImpacts.dwg By: jkval

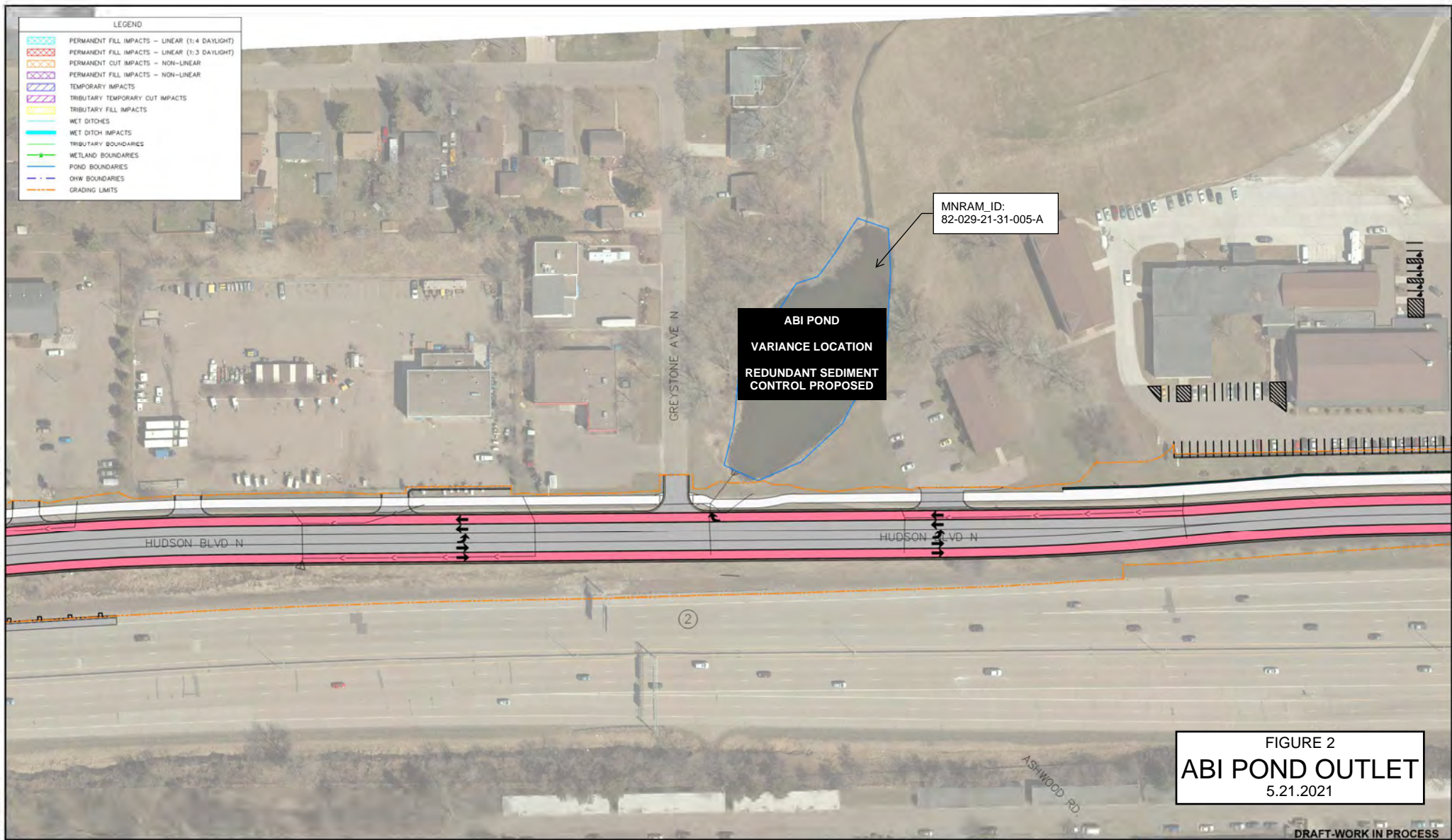
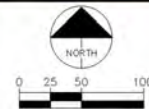


FIGURE 2
ABI POND OUTLET
5.21.2021

DRAFT-WORK IN PROCESS



GOLD LINE BRT
AQUATIC RESOURCE IMPACTS - PLAN VIEW





Minnesota Wetland Conservation Act Notice of Decision

Local Government Unit: Ramsey-Washington Metro Watershed District (RWMWD) County: Ramsey, Washington	
Applicant Name: Metropolitan Council Applicant Representative: Chelsa Johnson	
Project Name: Metro Gold Line BRT Replacement Plan	LGU Project No. (if any): 19-21 WCA
Date Complete Application Received by LGU: 11/11/2019	
Date of LGU Decision: 2/5/2020	
Date this Notice was Sent: 2/6/2020	

WCA Decision Type - check all that apply

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

Replacement Plan Impacts (replacement plan decisions only)

Total WCA Wetland Impact Area: 0.61 acre (permanent), 0.34 acre (temporary)
Wetland Replacement Type: <input type="checkbox"/> Project Specific Credits: <input checked="" type="checkbox"/> Bank Credits: 1.22 acres
Bank Account Number(s): 1137, 1649

Technical Evaluation Panel Findings and Recommendations (attach if any)

<input checked="" type="checkbox"/> Approve <input type="checkbox"/> Approve w/Conditions <input type="checkbox"/> Deny <input type="checkbox"/> No TEP Recommendation
Findings of Fact summarizing TEP comments was provided on 12/18/2019. The applicant submitted a revised joint application on 1/22/2020 in response to these comments.

LGU Decision

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

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

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

- ☐ Attachment(s) (specify):
- ☒ Summary: **The applicant submitted a revised joint application on 1-22-2020 in response to TEP comments outlined in the Findings of Fact. The replacement plan and no loss request were presented to the RWMWD Board of Managers on 2/5/2020. The board unanimously approved. A condition of approval is submittal of final wetland bank purchase agreements. These must be submitted before wetland impacts occur.**

¹ Findings must consider any TEP recommendations.

Attached Project Documents

- ☐ Site Location Map ☒ Project Plan(s)/Descriptions/Reports (specify): **A sharefile link to the final joint application is provided.**

Appeals of LGU Decisions

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

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

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

- ☐ Yes¹ ☒ No

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

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

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Notice Distribution (include name)

Required on all notices:

- | | |
|--|--|
| <input checked="" type="checkbox"/> SWCD TEP Member: | Mike Schumann (Ramsey County), Jay Riggs (Washington Conservation District) |
| <input checked="" type="checkbox"/> BWSR TEP Member: | Ben Meyer |
| <input type="checkbox"/> LGU TEP Member (if different than LGU contact): | |
| <input checked="" type="checkbox"/> DNR Representative: | Jen Sorensen, Leslie Parris |
| <input type="checkbox"/> Watershed District or Watershed Mgmt. Org.: | |
| <input checked="" type="checkbox"/> Applicant (notice only): | Chelsa Johnson |
| <input checked="" type="checkbox"/> Agent/Consultant (notice only): | Alison Harwood |

Optional or As Applicable:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Corps of Engineers: | Melissa Jenny |
| <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: Beth Brown (MnDOT), Wes Saunders-Pearce (City of St. Paul), Elizabeth Hosch (Capitol Region Watershed District) |

Signature: 	Date: 2/6/2020
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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.

MEMORANDUM

Date: June 2, 2021
To: RWMWD Board of Managers
From: Tina Carstens, Administrator
Nicole Soderholm, Permit Coordinator
Subject: Permit Submittal/Review Update: Victoria Shores

As a board, you have received several communications from residents regarding the proposed Victoria Shores development in the City of Roseville. District staff have also received communications and talked with many residents about the permit. The permit is not included on the agenda this month, however staff thought an update to the board would be prudent.

The applicant is proposing to develop a parcel adjacent to a wetland fringe on the southwest side of Lake Owasso. District and Barr staff have reviewed several iterations of the applicant's stormwater plan, wetland buffer plan, and erosion control plan. We notified the applicant of our latest comments that needed to be addressed before the staff would present the permit application to the board.

The city also has a review and approval process for this development. We have had discussions with city staff about the coordination of our review and approval processes. While the DNR does not have a permit or review process for this development, they did send comments to the city specific to their shoreland ordinance requirements and recommendations for the city to consider.

On May 11, 2021, the Environmental Quality Board (EQB) notified Roseville that area residents had submitted a petition requesting an Environmental Assessment Worksheet (EAW) be completed. Because this project does not require an EAW, the decision to complete a discretionary EAW is made by the Roseville city council. City staff indicated that the Roseville council will make that decision at their June 7th meeting. In the meantime, no government approvals can be given until the need for an EAW is determined.

If the council chooses to require an EAW, the process takes around 60 days to complete. The EAW is to determine if a further environmental study is needed through an Environmental Impact Statement. If the council does not pursue the EAW, the state requirements for acting on a permit submittal within 60 days restarts. The applicant may get development guidance from the city that could alter their plan, which in turn would alter their watershed permit submittal. We will keep the board updated as appropriate and/or upon request.



RAMSEY-WASHINGTON

METRO WATERSHED DISTRICT

MEMORANDUM

Date: June 2, 2021

To: Board of Managers and Staff

From: Nicole Soderholm, Permit Coordinator
Mary Fitzgerald, District Inspector

Subject: May Enforcement Action Report

During May 2021:

Number of Violations:	13
Install/Maintain Inlet Protection	1
Install/Maintain Perimeter Control	3
Install/Maintain Construction Entrance	1
Sweep Streets	2
Stabilize Exposed Soils	3
Contain Liquid/Solid Waste	2
Install/Maintain Energy Dissipation	1

Activities:

Permitting assistance to private developers and public entities, miscellaneous inquiries, ongoing ESC site inspections and reporting, WCA administration and procedures, new permit review with Barr Engineering, permit pre-submittal meetings, 48-hour BMP drawdown inspections, initial erosion control walk-throughs with contractors, BMP install site visits, U of M Erosion Control Certification Advisory Board meeting

Project Updates:

20-15 Spoon Lake Boat Launch Reconstruction (Maplewood)

The Spoon Lake Boat Launch project started in late April and has been continuing through the month of May, likely to finish this month. Staff have performed several erosion and sediment control inspections throughout the duration of the project to ensure all proper measures are followed. All items have been completed in compliance with the permit, and final seed and

blanket has been installed in several areas. Staff will continue to inspect the site until work is complete, and will check for vegetation establishment through the growing season.

20-05 Frost Lake Elementary Improvements (St. Paul)

Site work continues at Frost Lake Elementary, with substantial work completed at the new school building. On May 11th staff met with contactors onsite to observe the installation of the underground infiltration system and to discuss erosion and sediment control measures to ensure the system is well-protected through the rest of construction. Contractors plan to allow clean roof drainage to enter the system but will keep all other pipes offline until the site is complete and established with vegetation. This is a multi-year project, and staff will continue to inspect until completed.

21-02 Mead Metals Addition (Shoreview)

Mead Metals in Shoreview has begun construction in the month of May at their new building addition with associated parking. Staff visited the site on May 3rd to inspect erosion and sediment control items prior to soil disturbance. Staff noted a few items that would need to be installed including inlet protection along the truck haul route, down gradient perimeter control where exposed soil sloped towards the parking lot, and secondary containment under portable toilets. Staff revisited the site on May 19th and found all items to be installed and maintained properly. Staff will continue to inspect the site on a biweekly schedule throughout the duration of the project.

20-10 NSP 7th Ave Reconstruction (North St. Paul)

Work is beginning to wrap up at the 7th Ave reconstruction project west of downtown North St. Paul. Sod has been installed, shrubs and trees planted, and all other disturbed areas seeded with erosion control blanket. Several items are still needed to close out the RWMWD permit, including a 48-hour post rainfall inspection of the filtration basin, an inspection of the underground stormwater system, and at least 70% uniform perennial vegetative cover in all areas that were seeded. Staff will work on getting the BMP inspections completed and will monitor the site for proper vegetation growth.

Permits Closed:

19-21 Meadowood Berm (Woodbury)

19-26 Aldrich Arena Stormwater Retrofit (Maplewood)

Single Lot Residential Permits Approved by Staff:

21-13 2596 Edgerton Street (Little Canada)

* * * * *

Stewardship Grant Program

* * * * *

Stewardship Grant Program Budget Status Update

June 2, 2021

Homeowner	Coverage	Number of Projects: 13	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	11	\$22,198.90
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	2	\$8,335*
Master Water Steward Project	100% Cost Share \$15,000 Max	0	\$0
Shoreland Restoration	100% Cost Share \$15,000 Max	0	\$0

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects: 6	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	3	\$26,519*
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	1	\$110,000
Priority Area Projects	100% Cost Share \$100,000 Max	0	\$0
Non-Priority Area Projects	75% Cost Share \$50,000 Max	0	\$0
Public Art/Project Research	50% Cost Share	2	\$19,000
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	1	\$8,460*

Maintenance	50% Cost Share \$5,000 Max for 5 Years	50	\$41,750
Consultant Fees			\$29,523
Total Allocated			\$36,550

2021 Stewardship Grant Program Budget		
	Budget	\$1,000,000
	Total Funds Allocated	\$337,285.90
	Total Available Funds	\$662,714.10.10

**This includes applications pending approval at the June 2, 2021 board meeting.*

* * * * *

Action Items

* * * * *

Request for Board Action

Board Meeting Date: June 2, 2021

Agenda Item No: 8A

Preparer: Tina Carstens, Administrator
Nicole Soderholm, Permit Coordinator

Item Description: Accept the submittal of the 2020 MS4 Storm Water Pollution Prevention Plan (SWPPP) Annual Report and receive public comments.

Background:

All MS4s are required to complete an annual report and submit it to the Minnesota Pollution Control Agency (MPCA) by June 30 of each year. The report details the implementation status of the approved MS4 permit. The District SWPPP and the Annual Report are available on the District website. I have also attached the annual report to this memo for your review. As we discussed previously, this annual report relates to our current MS4 permit. We have recently submitted our application for the next permit cycle. The next annual report will relate to the new permit application.

This annual report relates to items that we complete for our MS4 permit, but it also gives you an idea of the type of information that we provide to our member cities and counties. We coordinate a number of our MS4 efforts with our partners, especially related to education and outreach efforts.

At the June 2 Board meeting, any members of the public that wish to comment on the SWPPP may during this agenda item.

Applicable District Goal and Action Item:

Goal: Manage organization effectively – Operate in a manner that achieves the District’s mission while adhering to its core principles.

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

Staff Recommendation:

Accept the 2020 MS4 Annual Report.

Financial Implications:

None.

Board Action Requested:

Accept the 2020 MS4 Annual Report and authorize District Administrator to submit the report to the MPCA.

MS4 question worksheet
for 2020 annual report

Municipal Separate Storm Sewer Systems (MS4s)

Reporting period January 1, 2020 to December 31, 2020

Due June 30, 2021

Copy of questions – **Not for submittal**

Instructions: This form is for your personal use only. Complete the online Annual Report to provide a summary of your activities under the 2013 MS4 Permit (Permit) between January 1, 2020, and December 31, 2020. The online Annual Report and additional information can be found on the Minnesota Pollution Control Agency's (MPCA) website at: https://stormwater.pca.state.mn.us/index.php?title=MS4_Annual_Report.

Questions: Contact Cole Landgraf (cole.landgraf@state.mn.us, 651-757-2880)

Contact information**MS4 General contact information**

Full name: Tina Carstens Title: Administrator
Mailing address: 2665 Noel Drive
City: Little Canada State: MN Zip code: 55117
Phone: 651-792-7960 Email: tina.carstens@rwmwd.org

Preparer contact information (if different from the MS4 General contact)

Full name: Nicole Soderholm Title: Permit Coordinator
Mailing address: 2665 Noel Drive
City: Little Canada State: MN Zip code: 55117
Phone: 651-792-7976 Email: nicole.soderholm@rwmwd.org

Minimum Control Measure (MCM) 1: Public education and outreach

The following questions refer to Part III.D.1. of the Permit.

2. Did you select a stormwater-related issue of high priority to be emphasized during this Permit term? ☒ Yes ☐ No
[Part III.D.1.a.(1)]
3. If 'Yes' in Q2, what is your stormwater-related issue(s)? Check all that apply.
☒ Total Maximum Daily Loads (TMDLs)
☐ Local businesses
☒ Residential best management practices (BMPs)
☒ Pet waste
☐ Yard waste
☒ Deicing materials
☐ Household chemicals
☒ Construction activities
☐ Post-construction activities
☒ Other (describe): IDDE
4. Have you distributed educational materials or equivalent outreach to the public focused on illicit discharge recognition and reporting? [Part III.D.1.a.(2)] ☒ Yes ☐ No
5. Do you have an implementation plan as required by the Permit? [Part III.D.1.b.] ☒ Yes ☐ No
6. How did you distribute educational materials or equivalent outreach? [Part III.D.1.a.] Check all that apply in table below.

7. For the items checked in **Q6** below, who is the intended audience? *Check all that apply in table below.*
8. For the items checked in **Q6** below, enter the total circulation/audience in table below (if unknown, use best estimate).

Q6. How did you distribute educational materials? (Check all that apply):	Q7. Intended audience? (Check all that apply.)						Q8. Total circulation /audience:
	Residents	Local businesses	Developers	Students	Employees	Other	
<input type="checkbox"/> Brochure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Newsletter							1,605 (RWMWD newsletter) + 123,727 (Washington Co newsletter)
<input type="checkbox"/> Utility bill insert	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<input type="checkbox"/> Newspaper ad	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Radio ad	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Television ad	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/> Cable access channel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input checked="" type="checkbox"/> Stormwater-related event	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	200
<input checked="" type="checkbox"/> School presentation or project	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	444
<input checked="" type="checkbox"/> Website	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	25,323
<input checked="" type="checkbox"/> Other (1): describe Social media	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1,008 (Facebook), 595 (Instagram), 998 (Twitter)
<input checked="" type="checkbox"/> Other (2): describe Community engagement activities (ex: Adopt-a-Drain)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	410 storm drain adopters, 21 Water Stewards
<input checked="" type="checkbox"/> Other (3): describe Workshops (water protection, smart salting, water friendly landscaping)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	326

For **Q9** and **Q10**, provide a brief description of each activity related to public education and outreach (e.g., rain garden workshop, school presentation, public works open house) held and the date each activity was held from January 1, 2020, to December 31, 2020. [Part III.D.1.c.(4)]

9. Date of activity *in table below*
10. Description of activity *in table below*

Q9. Date of activity	Q10. Description of activity
Throughout 2020	See addendum for details

11. Between January 1, 2020, and December 31, 2020, did you modify your BMPs, measurable goals, or future plans for your public education and outreach program? [Part IV.B.] ☒ Yes ☐ No

If 'Yes,' describe these modifications:

Our public education and outreach programs had to be modified considerably this year due to Covid. The pandemic required more online education - Zoom workshops instead of in person workshops . Our largest public education event of the year, WaterFest which normally engages several thousand people in person had to be cancelled due to Covid. The schools closed in late March because of Covid, cutting out several months of in person educational activities and field projects in the spring, fall and early winter.

MCM 2: Public participation/involvement

The following questions refer to Part III.D.2.a. of the Permit.

12. You must provide a minimum of one opportunity each year for the public to provide input on the adequacy of your Stormwater Pollution Prevention Program (SWPPP). Did you provide this opportunity between January 1, 2020, and December 31, 2020? [Part III.D.2.a.(1)] ☒ Yes ☐ No
13. If 'Yes' in Q12, what was the opportunity that you provided? *Check all that apply.* ☒ Yes ☐ No
- ☒ Public meeting
☐ Public event
☐ Other
14. If 'Public meeting' in Q13, did you hold a stand-alone meeting or combine it with another event?
☐ Stand-alone
☒ Combined
- Enter the date of the public meeting: 6/3/21
- Enter the number of citizens that attended and were informed about your SWPPP: 3
15. If 'Public event' in Q13, describe:
- Enter the date (mm/dd/yyyy) of the public meeting: _____
- Enter the number of citizens that attended and were informed about your SWPPP: _____
16. If 'Other' in Q13, describe:
- Enter the date (mm/dd/yyyy) of the public meeting: _____
- Enter the number of citizens that attended and were informed about your SWPPP: _____
17. Between January 1, 2020, and December 31, 2020, did you receive any input regarding your SWPPP? ☐ Yes ☒ No
- If 'Yes,' enter the total number of individuals or organizations that provided comments on your SWPPP. _____
18. If 'Yes' in Q17, did you modify your SWPPP as a result of written input received? [Part III.D.2.b.(2)] ☐ Yes ☐ No
- If 'Yes,' describe those modifications.
19. Between January 1, 2020, and December 31, 2020, did you modify your BMPs, measurable goals, or future plans for your public participation/involvement program? [Part IV.B.] ☐ Yes ☒ No
- If 'Yes,' describe those modifications.

MCM 3: Illicit discharge detection and elimination

The following questions refer to Part III.D.3. of the Permit.

20. Do you have a regulatory mechanism which prohibits non-stormwater discharges to your MS4? [Part III.D.3.b.] ☒ Yes ☐ No
21. Did you identify any illicit discharges between January 1, 2020, and December 31, 2020? [Part III.D.3.h.(4)] ☒ Yes ☐ No
22. If 'Yes' in Q21, enter the number of illicit discharges detected. 7
23. If 'Yes' in Q21, how did you discover these illicit discharges? Check all that apply and enter the number of illicit discharges discovered by each category.
- ☒ Public complaint
☒ Staff
24. If 'Public complaint' in Q23, enter the number discovered by the public: 0
25. If 'Staff' in Q23, enter the number discovered by staff: 2
26. If 'Yes' in Q21, did any of the discovered illicit discharges result in an enforcement action (this includes verbal warnings)? ☒ Yes ☐ No
27. If 'Yes' in Q26, what type of enforcement action(s) was taken and how many of each action were issued between January 1, 2020, and December 31, 2020? **Check all that apply. For each of the below checked, enter the number that were issued.** ☒ Yes ☐ No
- ☒ Verbal warning: 1
☒ Notice of violation: 2
☐ Fine: _____
☐ Criminal action: _____
☐ Civil penalty: _____
☒ Other: describe
- In 5 out of 7 illicit discharge incidents, self-reporting by the owner/contractor or notification from other public entities alerted the District (i.e.: City of Woodbury, City of Oakdale, MnDOT) and/or the MN Duty Officer prior to any opportunity for staff or public discovery. Discharges occurred in infrastructure owned by other MS4s. The District completes follow-up for water resource protection purposes.*
- In 1 illicit discharge incident, deductions of held surety (2) occurred. While not structured as a punitive fine, the non-compliance in this case resulted in an increase of staff time and resources for enforcement so charges were deducted from previously collected escrow as allowed in the RWMWD grading permit general provisions.*
28. If 'Yes' in Q26, did the enforcement action(s) taken sufficiently address the illicit discharge(s)? ☒ Yes ☐ No
29. If 'No' in Q28, why was the enforcement not sufficient to address the illicit discharge(s)?
30. Do you have written Enforcement Response Procedures (ERPs) to compel compliance with your illicit discharge regulatory mechanism(s)? [Part III.B.] ☒ Yes ☐ No
31. Between January 1, 2020 and December 31, 2020, did you train all field staff in illicit discharge recognition (including conditions which could cause illicit discharges) and reporting illicit discharges for further investigations? [Part III.D.3.e.] ☒ Yes ☐ No
32. If 'Yes' in Q31, how did you train your field staff? **Check all that apply.**
- ☐ Email
☐ PowerPoint
☐ Presentation
☒ Video
☐ Field training
☐ Other: describe

The following questions refer to Part III.C.1. of the Permit.

33. Did you update your storm sewer system map between January 1, 2020, and December 31, 2020? [Part III.C.1.] ☒ Yes ☐ No

34. Does your storm sewer map include all pipes 12 inches or greater in diameter and the direction of stormwater flow in those pipes? [Part III.C.1.a.] ☒ Yes ☐ No
35. Does your storm sewer map include outfalls, including a unique identification (ID) number and an associated geographic coordinate? [Part III.C.1.b.] ☒ Yes ☐ No
36. Does your storm sewer map include all structural stormwater BMPs that are part of your MS4? [Part III.C.1.c.] ☒ Yes ☐ No
37. Does your storm sewer map include all receiving waters? [Part III.C.1.d.] ☒ Yes ☐ No
38. In what format is your storm sewer map available:
- ☐ Hardcopy only
- ☒ GIS
- ☐ CAD
- ☐ Other: describe
39. Between January 1, 2020, and December 31, 2020, did you modify your BMPs, measurable goals, or future plans for your illicit discharge detection and elimination program? [Part IV.B.] ☐ Yes ☒ No
- If 'Yes,' describe those modifications.

MCM 4: Construction site stormwater runoff control

The following questions refer to Part III.D.4. of the Permit

40. Do you have a regulatory mechanism that is at least as stringent as the Agency's general permit to Discharge Stormwater Associated with Construction Activity (CSW Permit) No. Minn. R. 100001 (<http://www.pca.state.mn.us/index.php/view-document.html?gid=18984>) for erosion and sediment controls and waste controls? [Part III.D.4.a.] ☒ Yes ☐ No
(Permit can be found on the MPCA website at <https://www.pca.state.mn.us/water/construction-stormwater> (titled 'Minnesota NPDES/SDS Construction Stormwater General Permit').
41. Have you developed written procedures for site plan reviews as required by the Permit? [Part III.D.4.b.] ☒ Yes ☐ No
42. Have you documented each site plan review as required by the Permit? [Part III.D.4.f.] ☒ Yes ☐ No
43. Enter the number of site plan reviews conducted for sites an acre or greater between January 1, 2020, and December 31, 2020. 40
44. What types of enforcement actions do you have available to compel compliance with your regulatory mechanism? Check all that apply and enter the number of each used from January 1, 2020, to December 31, 2020.
- ☒ Verbal warning, Number that were issued: 4
- ☒ Notice of violation, Number that were issued: 62
- ☐ Administrative order, Number that were issued:
- ☒ Stop-work order, Number that were issued: 0
- ☐ Fine, Number that were issued:
- ☒ Forfeit of security of bond money: 30
- ☐ Withholding of certificate of occupancy
- ☐ Criminal action, Number that were issued:
- ☒ Civil penalty, Number that were issued: 0
- ☒ Other: describe. Compliance letter from attorney, Number that were issued: 1
45. Do you have written ERPs to compel compliance with your construction site stormwater runoff control regulatory mechanism(s)? [Part III.B.] ☒ Yes ☐ No
46. Enter the number of active construction sites an acre or greater that were in your jurisdiction between January 1, 2020, and December 31, 2020: 64
47. Do you have written procedures for identifying priority sites? [Part III.D.4.d.(1)] ☒ Yes ☐ No

48. If 'Yes,' in **Q47**, How are sites prioritized? *Check all that apply.*

- ☒ Site topography
- ☐ Soil characteristics
- ☒ Types of receiving water(s)
- ☒ Stage of construction
- ☒ Compliance history
- ☐ Weather conditions
- ☒ Citizen complaints
- ☐ Project size
- ☐ Other: describe

49. Do you have a checklist or other written means to document site inspections when determining compliance? [Part III.D.4.d.(4)] ☒ Yes ☐ No

50. Enter the number of site inspections conducted for sites an acre or greater between January 1, 2020, and December 31, 2020. 492

51. Weekly, biweekly, monthly, or seasonally depending on project stage and priority.

Enter the frequency at which site inspections are conducted (e.g., daily, weekly, monthly). [Part III.D.4.d.(2)]

52. Enter the number of trained inspectors that were available for construction site inspections between January 1, 2020, and December 31, 2020. 3

53. Provide the contact information for the inspector(s) and/or organization that conducts construction stormwater inspections for your MS4. List your primary construction stormwater contact first if you have multiple inspectors.

(1) Inspector name:

Organization: Mary Fitzgerald, RWMWD

Phone (office): 651-792-7956

Phone (work cell): _____

Email: mary.fitzgerald@rwmwd.org

Preferred contact method: Phone or e-mail

(2) Inspector name:

Organization: Nicole Soderholm, RWMWD

Phone (office): 651-792-7976

Phone (work cell): _____

Email: nicole.soderholm@rwmwd.org

Preferred contact method: Phone or e-mail

(3) Inspector name:

Organization: Paige Ahlborg, RWMWD

Phone (office): 651-792-7964

Phone (work cell): _____

Email: paige.ahlborg@rwmwd.org

Preferred contact method: Phone or e-mail

54. What training did inspectors receive? **Check all that apply.**
- ☒ University of Minnesota Erosion and Stormwater Management Certification Program
 - ☐ Qualified Compliance Inspector of Stormwater (QCIS)
 - ☐ Minnesota Laborers Training Center Stormwater Pollution Prevention Plan Installer or Supervisor
 - ☐ Minnesota Utility Contractors Association Erosion Control Training
 - ☐ Certified Professional in Erosion and Sediment Control (CPESC)
 - ☐ Certified Professional in Stormwater Quality (CPSWQ)
 - ☐ Certified Erosion Sediment and Storm Water Inspector (CESSWI)
 - ☐ Other: describe
55. Between January 1, 2020, and December 31, 2020, did you modify your BMPs, measurable goals, or future plans for your construction site stormwater runoff control program? [Part IV.B.] ☐ Yes ☒ No
- If 'Yes,' describe those modifications:

MCM 5: Post-construction stormwater management in new development and redevelopment

The following questions refer to Part III.D.5. of the Permit.

56. Do you have a regulatory mechanism which meets all requirements as specified in Part III.D.5.a. of the Permit? ☒ Yes ☐ No
57. What approach are you using to meet the performance standard for Volume, Total Suspended Solids (TSS), and Total Phosphorus (TP) as required by the permit? [Part III.D.5.a.(2)] **Check all that apply.** Refer to the Technical Support Document at <http://www.pca.state.mn.us/index.php/view-document.html?gid=17815> for guidance on stormwater management approaches. *The TSD can be found on the MPCA website at <https://www.pca.state.mn.us/water/municipal-stormwater-ms4> (refer to the Post Construction Stormwater Management section under the 'Guidance and BMPs' tab).*
- ☐ Retain a runoff volume equal to one inch times the area of the proposed increase of impervious surfaces on-site
 - ☐ Retain the post-construction runoff volume on site for the 95th percentile storm
 - ☒ Match the pre-development runoff conditions
 - ☐ Adopt the Minimal Impact Design Standards
 - ☐ An approach has not been selected
 - ☒ Other method (Must be technically defensible - e.g., based on modeling, research and acceptable engineering practices)
- If 'Other method,' describe:
- Retain a volume of 1.1" times the area of new and reconstructed impervious surfaces onsite. All stormwater BMPs require pretreatment method(s) for TSS removal. Runoff rates for the 2, 10, and 100-year critical storm events must not exceed existing conditions.
58. Do you have written ERPs to compel compliance with your post-construction stormwater management regulatory mechanism(s)? [Part III.B.] ☒ Yes ☐ No
59. Between January 1, 2020, and December 31, 2020, did you modify your BMPs, measurable goals, or future plans for your post-construction stormwater management program? [Part IV.B.] ☒ Yes ☐ No
- If 'Yes,' describe those modifications.
- On Jan 1, 2020 in-lieu fee increases went into effect as approved by the RWMWD Board of Managers in June 2019. The 6-month delay in implementation was intentional to offer permittees some flexibility for budgeting future projects.*

MCM 6: Pollution prevention/good housekeeping for municipal operations

The following questions refer to Part III.D.6. of the Permit.

60. Enter the total number of **structural stormwater BMPs, outfalls** (excluding underground outfalls), and **ponds** within your MS4 (exclude privately owned). Enter the number for each category below:

Structural stormwater BMPs: 21

Outfalls: 19

Ponds: 20

61. Enter the total number of **structural stormwater BMPs, outfalls** (excluding underground outfalls), and **ponds** that were inspected from January 1, 2020 to December 31, 2020 within your MS4 (exclude privately owned) [Part III.D.6.e.]. Enter the number for each category below:

Structural stormwater BMPs: 21

Outfalls: 19

Ponds: 20

62. Have you developed an alternative inspection frequency for any structural stormwater BMPs, as allowed ☐ Yes ☒ No in Part III.D.6.e.(1) of the Permit?
63. Based on inspection findings, did you conduct any maintenance on any structural stormwater BMPs? ☒ Yes ☐ No [Part III.D.6.e.(1)]
64. If 'Yes' in **Q63**, briefly describe the maintenance that was conducted:

Removed 9 cubic yards (CY) of sediment/muck from Maplewood Mall sumps, removed 1 CY sediment/muck from Battle Creek sump, removed 1 CY sediment/muck from Owasso low flow sump, removed 1 CY sediment/muck from Tanners Lake Alum Plant sump, removed 1 CY sediment/muck from ABI Pond sump, removed 1 CY sediment/muck from PCU (Target) Pond sump, removed 1 CY sediment/muck from Frost-Kennard spent lime chamber sump, removed 100 tons sediment/muck and replaced filter rock outlets at Tamarack Swamp PFS pavers, cleaned 580 lineal feet (LF) permeable weirs at Tanners wetland/Horseshoe Park, cleaned 65 LF permeable weirs at 5th Street wetland, removed/replaced 50 tons of filter rock at Gervais Mill Pond filter strip, removed 10 tons of sediment/muck from Lower Afton Road sediment trap, removed 643 tons of sediment/muck from Casey Lake inlet

65. Do you own or operate any stockpiles, and/or storage and material handling areas? [Part III.D.6.e.(3)] ☐ Yes ☒ No
66. If 'Yes' in **Q65**, did you inspect all stockpiles and storage and material handling areas quarterly? [Part III.D.6.e.(3)] ☐ Yes ☐ No
67. If 'Yes' in **Q66**, based on inspection findings, did you conduct maintenance at any of the stockpiles and/or storage and material handling areas? ☐ Yes ☐ No
68. If 'Yes' in **Q67**, briefly describe the maintenance that was conducted:

69. Between January 1, 2020, and December 31, 2020, did you modify your BMPs, measurable goals, or future plans for your pollution prevention/good housekeeping for municipal operations program? [Part IV.B.] ☐ Yes ☒ No

If 'Yes,' describe those modifications:

Discharges to impaired waters with a EPA-approved TMDL that includes an applicable WLA

If you have been assigned a Waste Load Allocation (WLA) in a TMDL that was approved by the U.S. Environmental Protection Agency (EPA) prior to August 1, 2013, and were not meeting WLA(s) at the time of your permit application, you must complete the **TMDL Annual Report Form**, available on the MPCA website at: https://stormwater.pca.state.mn.us/index.php?title=Download_page_with_TMDL_forms.

Attach your completed TMDL Annual Report Form to the actual Annual Report as instructed within that document. [Part III.E.]

71. [question left blank for you to attach a file]

Alum or Ferric Chloride Phosphorus Treatment Systems

The following questions refer to Part III.F.3.a. of the Permit. Provide the information below as it pertains to your alum or ferric chloride phosphorus treatment system.

72. Date(s) of operation:

Month	Date(s) of operation (mm/dd/yyyy – mm/dd/yyyy)
January	N/A
February	N/A

Month	Date(s) of operation (mm/dd/yyyy – mm/dd/yyyy)
March	N/A
April	4/28-4/30
May	5/1-5/31
June	6/1-6/30
July	7/1-7/31
August	8/1-8/6, 8/14-8/31
September	9/1-9/30
October	10/1-10/6, 10/26-10/30
November	N/A
December	N/A

Month	Q73 Chemical(s) used for treatment	Q74 Gallons of alum or ferric chloride treatment	Q75 Gallons of water treated	Q76 Calculated pounds of phosphorus removed
January	N/A	0	0	0
February	N/A	0	0	0
March	N/A	0	0	0
April	Alum	350	3,246,828	3.8
May	Alum	422	26,732,008	27.9
June	Alum	1,663	21,789,437	23.8
July	Alum	4,365	27,654,095	68.7
August	Alum	917	6,322,397	7.1
September	Alum	428	3,430,718	2.1
October	Alum	205	1,797,152	0.9
November	N/A	0	0	0
December	N/A	0	0	0

77. Any performance issues and corrective action(s), including date(s) when corrective action(s) were taken, between January 1, 2020, and December 31, 2020:

The alum treatment facility was shut down on two occasions for maintenance. The alum pump malfunctioned and was pumping at an incorrect rate in August. The alum plant was shut down during August 7 through August 13 while a new pump was installed. The alum plant was shut down during October 7 through October 25 while a new pH probe was installed. See addendum for additional details.

Partnerships

78. Did you rely on any other regulated MS4s to satisfy one or more permit requirements? ☐ Yes ☒ No
79. If 'Yes' in Q78, describe the agreements you have with other regulated MS4s and which permit requirements the other regulated MS4s help satisfy: [Part IV.B.6.]

Additional information

If you would like to provide any additional files to accompany your Annual Report, use the space below to upload those files. For each space, you may attach one file.

80. [Optional space for you to attach a file]
81. [Optional space for you to attach a file]
82. [Optional space for you to attach a file]
83. Optional, describe the file(s) uploaded:

Owner or Operator Certification

The person with overall administrative responsibility for SWPPP implementation and permit compliance must certify this MS4 Annual Report. This person must be duly authorized and should be either a principal executive (i.e., Director of Public Works, City Administrator) or ranking elected official (i.e., Mayor, Township Supervisor).

- ☒ Yes - I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete (Minn. R. 7001.0070). I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment (Minn. R. 7001.0540).

By typing my name in the following space, I certify the above statements to be true and correct, to the best of my knowledge, and that information can be used for the purpose of processing my MS4 Annual Report.

Name of certifying official: The certifying official must electronically sign the online Annual Report form.

Title: Administrator

Date: 5/5/21
(mm/dd/yyyy)

Note: In the online form, you will be prompted to provide the email(s) of the individual(s) you would like to receive the MS4 Annual Report for 2020 submittal confirmation email from the MPCA. After you submit the form, please allow up to three business days to receive this confirmation email.

Email (1) nicole.soderholm@rwmwd.org

Email (2) _____

Email (3) _____

2020 Public Education/Outreach Events, Education Programs and Projects

Schools and Youth Engagement: classroom education, field trips and projects about water pollution, water quality monitoring, native plants for water quality

Schools: Mounds Park Academy, Farnsworth, Weaver, St. Peter, L'Etoile du Nord 18 classes, and 1 youth team , January-March

Total Youth/Students involved: 444

Community Outreach/Education/Stewardship Events:

Osher Life-Long Learning Classes -The State of our Waters in the Land of Mostly Frozen 10,000+ Lakes watershed education series, 40 senior citizens – classes: Jan. 6, Jan. 27, Feb. 3, Feb.10

Phalen Freeze Fest – February 29, 2020, smart salting education, promotion of stewardship grants, watershed education 200 participants

Lawns to Legumes landscaping workshop, February 20, 2020 planting for clean water and pollinators, workshop for 42 residents

Ames Lake Water Quality Monitoring – 4th grade field trip including chloride monitoring– February 27, 2020 (50 youth) L'Etoile du Nord

Water Stewards Clean-Up at Ames Lake - April 22, 2020

Water Pollution Mystery Game for families at three locations

Oakdale, Tanners Lake Park – June 19, 2020

Woodbury, Carver Lake Park – August 11, 2020

Woodbury Tamarack Nature Preserve – October 10-11, 2020

Smart Salting Roads Training (online) 9/30/2020 – 27 attendees

Smart Salting for Property Management (online) 10/21/2020 -7 attendees

Planting for Clean Water Workshops (online) March 25, April 17, June 10, 140 participants

Roseville tour/training for Roseville League of Women Voters environmental committee in person 8 participants 6/23/2020

Online workshops about Pollinators and water friendly landscaping 8/26/2020 and 9/8/2020 70

Adopt-A-Drain: 140 new participants signed up to adopt drains and 239 additional drains were adopted in RWMWD in 2020. **A total of 715 drains had been adopted by the end of 2020.** Distribution of 153 Adopt-A-Drain yard signs to residents in fifteen subwatersheds in eight cities in RWMWD. Emails

sent to these 153 residents educating them about which water body they are protecting and expressing thanks for their efforts.

Master Water Stewards

5 new Water Stewards participated in 3 Water Stewards course education sessions, 1/11/2020, 2/8/2020, 3/7/2020 to become certified

This team met weekly or bi-weekly from June-August on Zoom to plan educational activities for their neighborhood around Willow Pond in Roseville. Activities include tours, education, community outreach, sign design and projects related to stormwater management, storm drain pollution, BMPs, water quality, and ecological restoration to prevent erosion and sustainable yard design to reduce chemical use, conserve water and protect downstream waters from run-off and pollution.

A total of 21 Water Stewards were active in 2020 doing community engagement and assisting with watershed related education and water quality projects in the field.

Media

Website: users: 25,323 and Page Views: 64,064

Newsletter (blog) subscribers: 1,605

Followers:

Facebook: 1,008

Instagram: 595

Twitter: 998

RWMWD blog on rwmwd.org

April 29, 2020 “Adopt-A-Drain: Clean Water Begins at Your Curb”

June 3, 2020 “Public Notice: Stormwater Prevention Plan (SWPPP) Report Annual Meeting

Facebook posts on these themes

Salt pollution 1/9, 10/21, 12/13

Adopt-A-Drain 3/20, 4/17, 5/11, 8/12, 9/25, 10/30, 11/17

Biologs for sediment control 11/24

Newsletters: content for city, watershed and Washington Conservation District newsletters

- Oakdale (pop. 28,083) –newsletter
 - Summer – Adopt-A-Drain
- White Bear Lake (pop. 25,888) - newsletter
 - Spring edition– full feature on native plants + upcoming workshops; Adopt a Drain; IDDE reporting
 - Fall edition – Heiner Pond buffer planting and Adopt a Drain
- Woodbury (pop. 69,756)
 - Feb. – Dog poop

Annual Report

***Prepared for the Ramsey Washington Metro Watershed District for
Submittal to the Minnesota Pollution Control Agency
to Fulfill the Reporting Requirements for the Tanners Alum Treatment
Facility permitted under the General NPDES/SDS Permit for Municipal
Separate Storm Sewer Systems, Permit MNR040000***

Barr Engineering Co.

April 2021

1.0 Report Overview

Discharge from the Tanner's Lake Alum Treatment Facility is permitted under the Ramsey Washington Metro Watershed District (RWMWD) Municipal Separate Storm Sewer Systems (MS4) permit which is covered by the Minnesota Pollution Control Agency (MPCA) Small MS4 General Permit MNR040000. Submission of an annual report is required by the MS4 permit. Included in this 2020 annual report are:

- Operation details including volume of water treated, gallons of alum used, and average alum dose.
- Summaries of data collected from the inflow to the facility and outflow from the facility (i.e., floc pond discharge), and
- Phosphorus load removed by the alum treatment facility, estimated from FLUX modeling,

Tanner's Lake was not monitored in 2020 due to safety precautions during the COVID-19 pandemic. There were no sludge management activities in 2020.

2.0 Operation in 2020

In 2020, the Tanner's alum treatment facility operated for a total of 160 days during April 28 through October 30. The alum plant was shut down for maintenance on two occasions during 2020. The alum plant did not operate during August 7 through August 13 while a new pump was installed and during October 7 through October 25 while a new pH probe was installed. Total water flows treated by the Tanners alum treatment facility in 2020 were 90,972,635 gallons. Total alum application in 2020 was 8,350 gallons. The average aluminum dose applied in 2020 was 5.3 mg/L Al.

3.0 Tabular Summary of 2020 In-Stream Data

Data collected from permitted monitoring points SW001 (upstream of treatment plant), and SD002 (discharge from floc pond) during April 28 through October 31, 2020 are summarized in Tables 1 and 2.

The 2020 data collected from permitted monitoring points SW001 and SD002 have been electronically submitted to the MPCA in EQUIS format.

Table 1 Water Quality Data Summary: Upstream Inflow to the Alum Treatment Facility (SW001)

Date	Sample	Aluminum (µg/L)		Phosphorus (mg/L)			pH (SU)
		Total	Dissolved	Total	Dissolved	Ortho	
4/30/2020	Storm	1,390	10.3*	0.33	0.010	0.0022	7.56
5/7/2020	Grab	99.6	10.3*	0.065	0.0069	0.0024	7.97
5/14/2020	Grab		11.1*	0.063	0.0099	0.0028	7.99
5/18/2020	Storm		<8.1	0.53	0.016	0.011	7.58
5/28/2020	Grab		10.7	0.10	0.040	0.032	7.67
6/04/2020	Grab	105	9.6*	0.12	0.037	0.027	7.85
6/11/2020	Grab		8.3	0.18	0.039	0.032	7.80
6/19/2020	Grab		12.2*	0.16	0.044	0.026	7.74
6/25/2020	Grab		<8.1	0.13	0.0058	0.016	7.85
6/30/2020	Storm		22.6	0.34	0.036	0.026	7.13
7/9/2020	Grab	90.4	9.7*	0.31	0.080	0.073	7.64
7/16/2020	Grab		<8.1	0.19	0.044	0.046	7.77
7/20/2020	Storm		8.5*	0.66	0.050	0.041	7.62
7/23/2020	Storm		<8.1	0.60	0.057	0.044	7.55
7/28/2020	Storm		10.4*	0.31	0.048	0.040	7.52
8/6/2020	Grab	444	<7.1	0.66	0.023	0.018	7.45
8/19/2020	Grab		<7.1	0.20	0.027	0.020	7.62
8/27/2020	Grab		<7.1	0.096	0.028	0.021	7.77
9/3/2020	Grab	32.3	<7.1	0.094	0.023	0.016	8.07
9/10/2020	Grab		<7.1	0.089	0.020	0.011	7.97
9/17/2020	Grab		<7.1	0.069	0.020	0.016	8.08
9/25/2020	Grab		<7.1	0.082	0.025	0.021	7.88
10/1/2020	Grab	111	<7.1	0.076	0.029	0.016	7.84
10/29/2020	Grab		<7.1	0.16	0.018	0.010	7.73

*Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

Table 2 Water Quality Data Summary: Discharge from Floc Removal Basin (SD002)

Date	Sample	Aluminum (µg/L)		Phosphorus (mg/L)			pH (SU)
		Total	Dissolved	Total	Dissolved	Ortho	
4/30/2020	Storm	2,180	67.4	0.057	0.0058	<0.0012	7.42
5/7/2020	Grab	570	56.6	0.029	0.0040*	<0.0012	7.64
5/14/2020	Grab		43.6	0.056	0.0063	<0.0012	7.85
5/18/2020	Storm		24.1	0.076	0.020	0.014	7.58
5/28/2020	Grab		103	0.084	0.027	0.020	7.6
6/04/2020	Grab	127	34.2	0.091	0.028	0.021	7.89
6/11/2020	Grab		101	0.058	0.0056	0.0014	7.3
6/19/2020	Grab		89	0.075	0.0071	<0.0048	7.34
6/25/2020	Grab		29.1	0.040	0.019	0.0020	7.35
6/30/2020	Storm		70.4	0.097	0.0064	0.0038	7.27
7/9/2020	Grab	2,170	82	0.20	0.015	0.0093	7.19
7/16/2020	Grab		21	0.056	0.0054	0.0027	7.45
7/20/2020	Storm		91.7	0.11	0.010	0.0022	7.46
7/23/2020	Storm		67.8	0.10	0.010	0.0035	7.35
07/28/2020	Storm		86.3	0.10	0.0065	0.0016*	--
8/6/2020	Grab	2,210	48.4	0.059	0.0053	0.0018*	7.02
8/19/2020	Grab		26.1	0.066	0.0070	0.0025*	7.41
8/27/2020	Grab		17.1*	0.097	0.0056	0.0062	7.31
9/3/2020	Grab	1,200	18.8*	0.11	0.0066	0.0015*	7.42
9/10/2020	Grab		27.2	0.032	0.0081	<0.0012	7.38
9/17/2020	Grab		29.2	0.031	0.0046*	0.0026*	7.38
9/25/2020	Grab		17.8*	0.031	0.0081	0.0052*	7.37
10/1/2020	Grab	171	28.0	0.026	0.0057	0.0017*	7.52
10/29/2020	Grab		69.9	0.023	0.0068	0.0017*	7.03

*Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

4.0 Graphical Summary of 2020 In-Stream Data and Compare 2020 Data with Previous Years

Figures 1 through 5 present 2020 data in graphical format and compare it with data collected in previous years. The data collection location for the outflow has varied between the floc pond outflow (1998-2003 and 2007-2020) and the 7th Street wetland outflow (2004-2006). The historical graphs in this report only present the outflow data from the floc pond, the outflow specified in the MS4 permit. Inflow and outflow total aluminum data are presented in Figure 1. Inflow and outflow dissolved aluminum data are presented in Figure 2. Inflow and outflow total phosphorus data are presented in Figure 3. Inflow and outflow dissolved phosphorus data are presented in Figure 4. Dissolved phosphorus during 2008 through 2017 was measured as ortho phosphorus. During 2018, dissolved phosphorus was measured as ortho phosphorus during May 3 and May 10 and as dissolved phosphorus during all other 2018 monitoring events. All 2019 and 2020 dissolved phosphorus measurements were as dissolved phosphorus. Inflow and outflow pH data are presented in Figure 5.

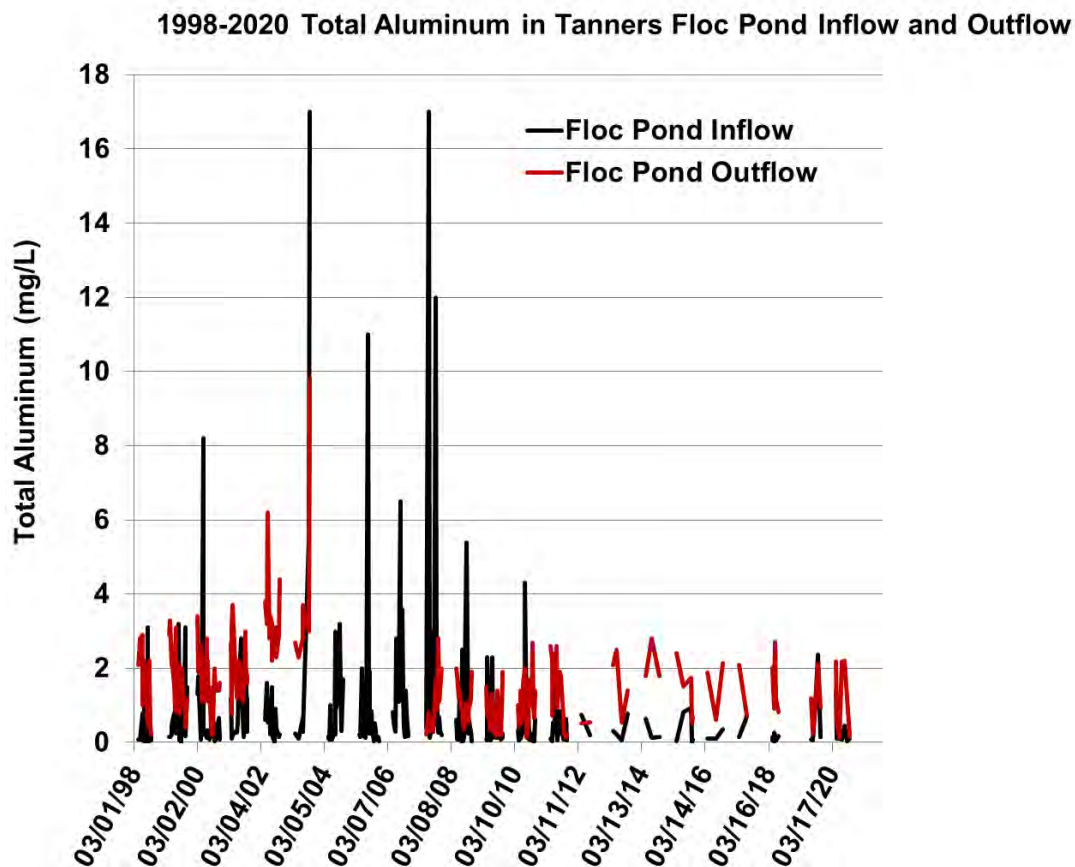


Figure 1. 1998-2020 Total Aluminum in Tanners Floc Pond Inflow and Outflow

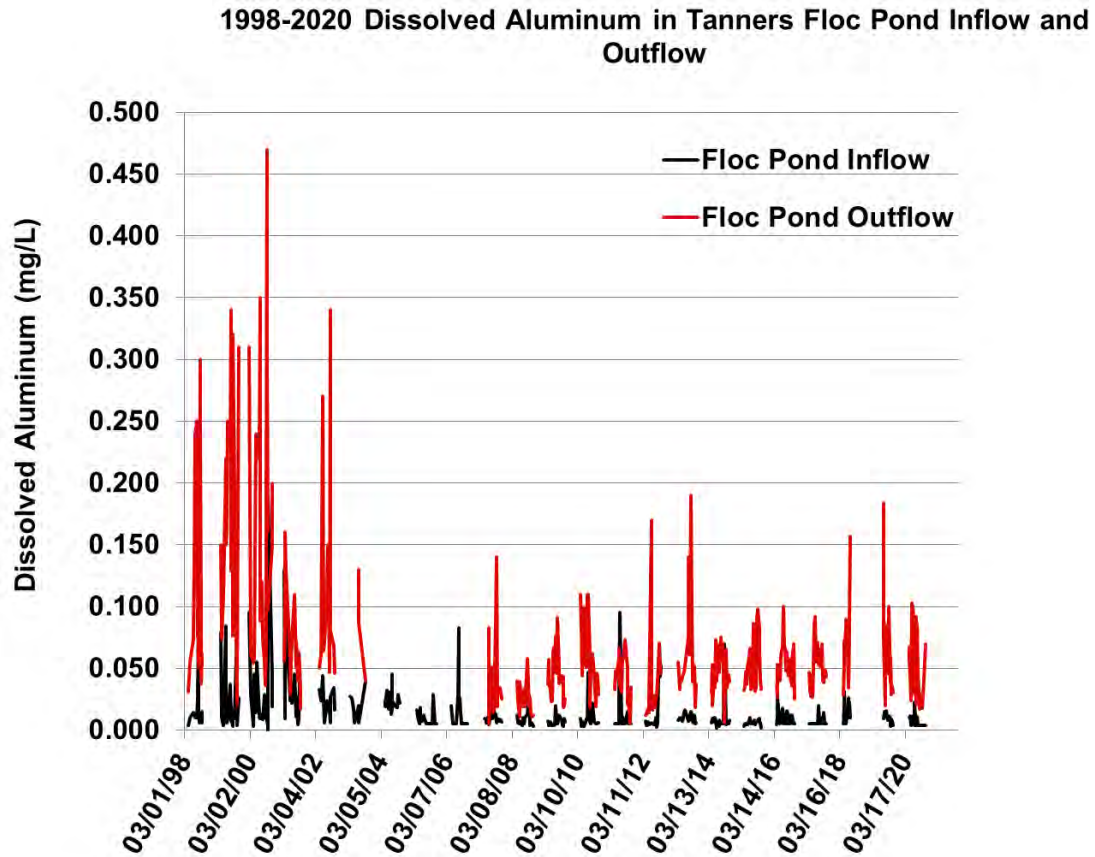


Figure 2. 1998-2020 Dissolved Aluminum in Tanners Floc Pond Inflow and Outflow

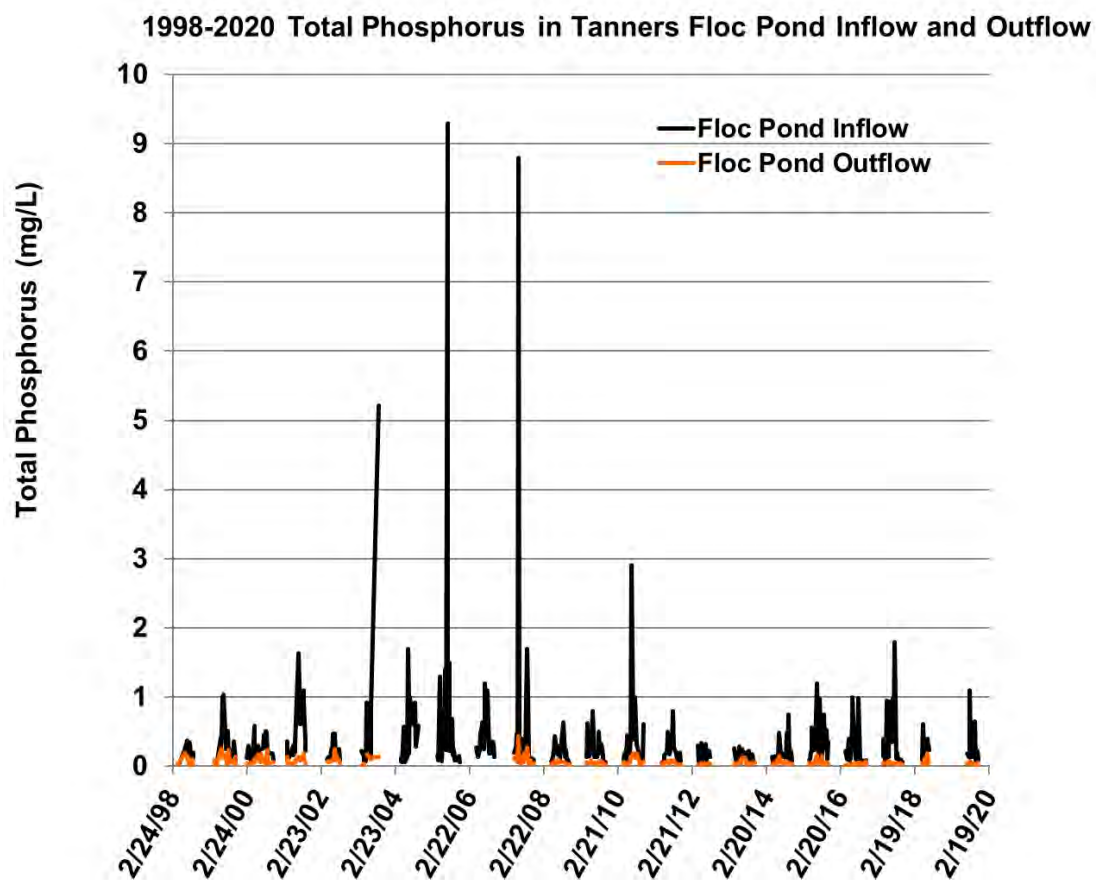


Figure 3. 1998-2020 Total Phosphorus in Tanners Floc Pond Inflow and Outflow

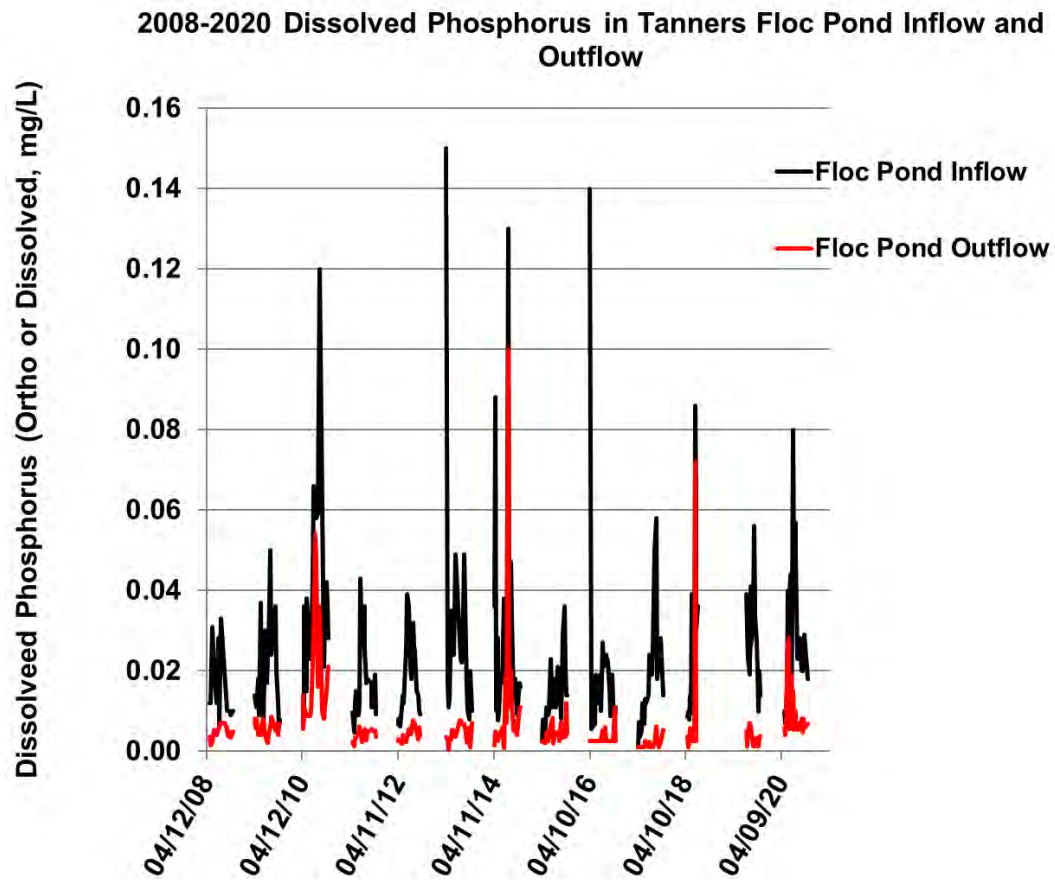


Figure 4. 2008-2020 Dissolved Phosphorus in Tanners Floc Pond Inflow and Outflow

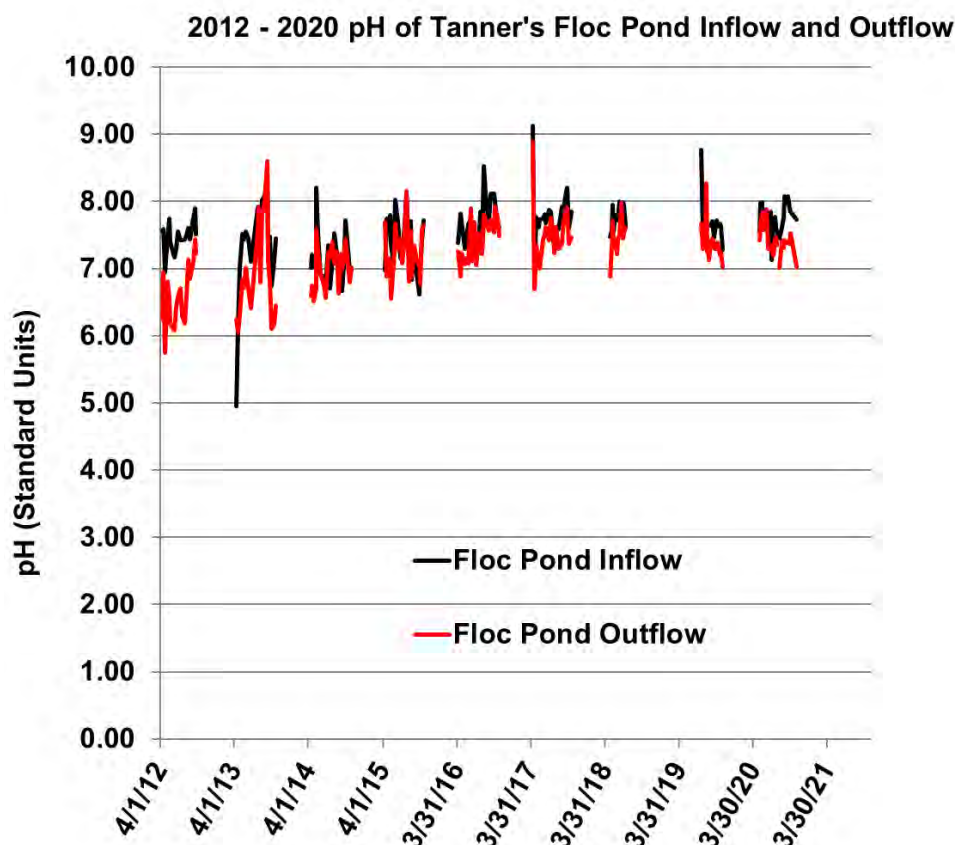


Figure 5. 2012-2020 pH of Tanners Floc Pond Inflow and Outflow

5.0 2020 Phosphorus Removal by Treatment Facility: FLUX Modeling

Total and dissolved phosphorus removal by the Tanner's Alum Treatment Facility during 2020 were estimated from FLUX modeling of inflow and outflow phosphorus load during the period of facility operation (i.e., April 28 through October 31). Continuous flow data together with inflow and outflow total and dissolved phosphorus data were input into the FLUX model to determine phosphorus load. Model results are presented in Table 3. Table 3 also presents the FLUX model results for 2012 through 2019.

In 2020, the estimated inflow total phosphorus load during the period of facility operation was 198 pounds. The treatment facility removed an estimated 134 pounds of total phosphorus. On average, 68 percent of the total phosphorus load entering the treatment facility during the 2020 period of operation was removed by alum treatment (Table 3).

During 2012 through 2019, average removal rates ranged from a low of 70 percent in 2014 to a high of 89 percent in 2016. Hence, the 2020 average removal rate of 68 percent was lower than removal rates observed during 2012 through 2019. The average alum dose applied during the 2020 period of operation was 5.3 mg/L Al which was lower than average alum doses applied during the period of operation in 2012 through 2019 (5.6 mg/L Al to 14.4 mg/L Al). During this

period, increasing average total phosphorus removal rates were generally observed with increasing average alum dose rates.

In 2020, the estimated inflow dissolved phosphorus load during the period of facility operation was 28 pounds and the treatment facility removed an estimated 18 pounds of dissolved phosphorus. Hence, on average, 65 percent of the dissolved phosphorus load entering the treatment facility was removed by alum treatment (Table 3). The 2020 dissolved phosphorus removal rate was near the low end of the range of removal rates observed during 2012 through 2019 (59 to 92 percent) (Table 3).

Monthly inflow and outflow total phosphorus loads estimated by FLUX are shown in Figure 6 and monthly inflow and outflow dissolved phosphorus loads are shown in Figure 7. A summary of gallons of water treated, gallons of alum applied during treatment, and the FLUX modeling estimate of pounds of total and dissolved phosphorus removed during the 2020 operation period is shown in Table 4.

Table 3. Tanners Alum Treatment Facility: 2012-2020 Phosphorus Removal Estimated from FLUX Modeling

Year	Parameter	Inflow Mass (lbs)	Outflow Mass (lbs)	Phosphorus Removed (lbs)	Phosphorus Removal (%)
2012	Total Phosphorus	151	21	130	86
	Dissolved Phosphorus (Ortho)	13	2	11	82
2013	Total Phosphorus	158	43	115	73
	Dissolved Phosphorus (Ortho)	35	4	32	89
2014	Total Phosphorus	350	106	244	70
	Dissolved Phosphorus (Ortho)	34.6	8.3	26.3	76
2015	Total Phosphorus	514	77	437	85
	Dissolved Phosphorus (Ortho)	19	6	13	70
2016	Total Phosphorus	509	57	452	89
	Dissolved Phosphorus (Ortho)	34	5	29	85
2017	Total Phosphorus	405	51	354	87
	Dissolved Phosphorus (Ortho)	25	2	23	92
2018	Total Phosphorus	182	52	129	71
	Dissolved Phosphorus (Dissolved and Ortho*)	23	9	13	59
2019	Total Phosphorus	193	23	169	88
	Dissolved Phosphorus (Dissolved)	21	2	19	90
2020	Total Phosphorus	198**	64**	134**	68
	Dissolved Phosphorus (Dissolved)	28**	10**	18**	65

*Ortho phosphorus was measured on 5/3/2018 and 5/10/2018 and dissolved phosphorus was measured on all other 2018 sample dates.

**FLUX estimated loads and load removed by alum treatment facility are for the operation period of the alum treatment facility. Periods when the facility was not in operation were not included in the estimated load or load removed by the alum treatment facility. The facility began operation April 28 and was shut down for the year on October 30. The facility was shut down for maintenance August 7 through 13 and October 7 through 25.

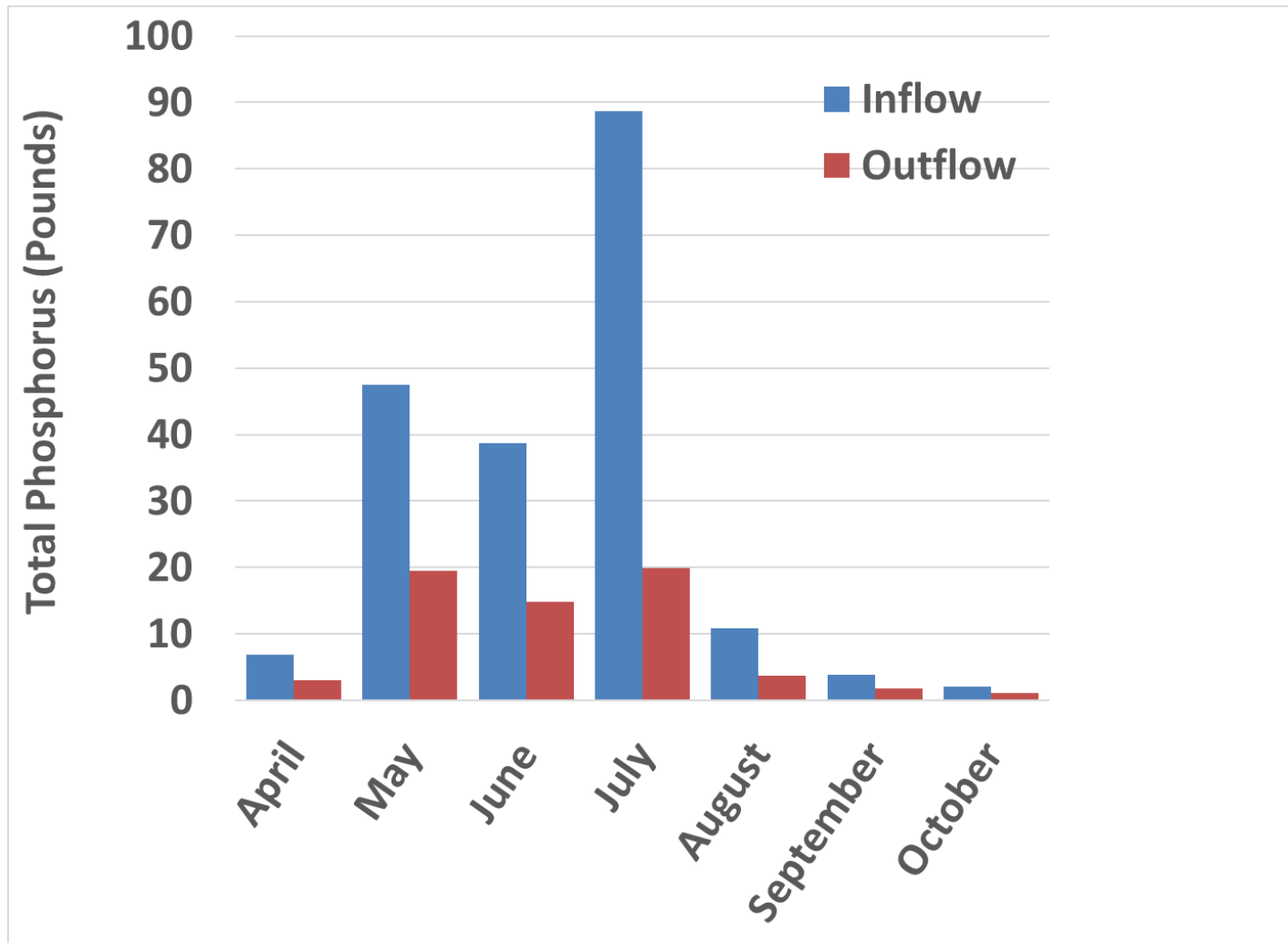


Figure 6. 2020 Inflow and Outflow Total Phosphorus Loads

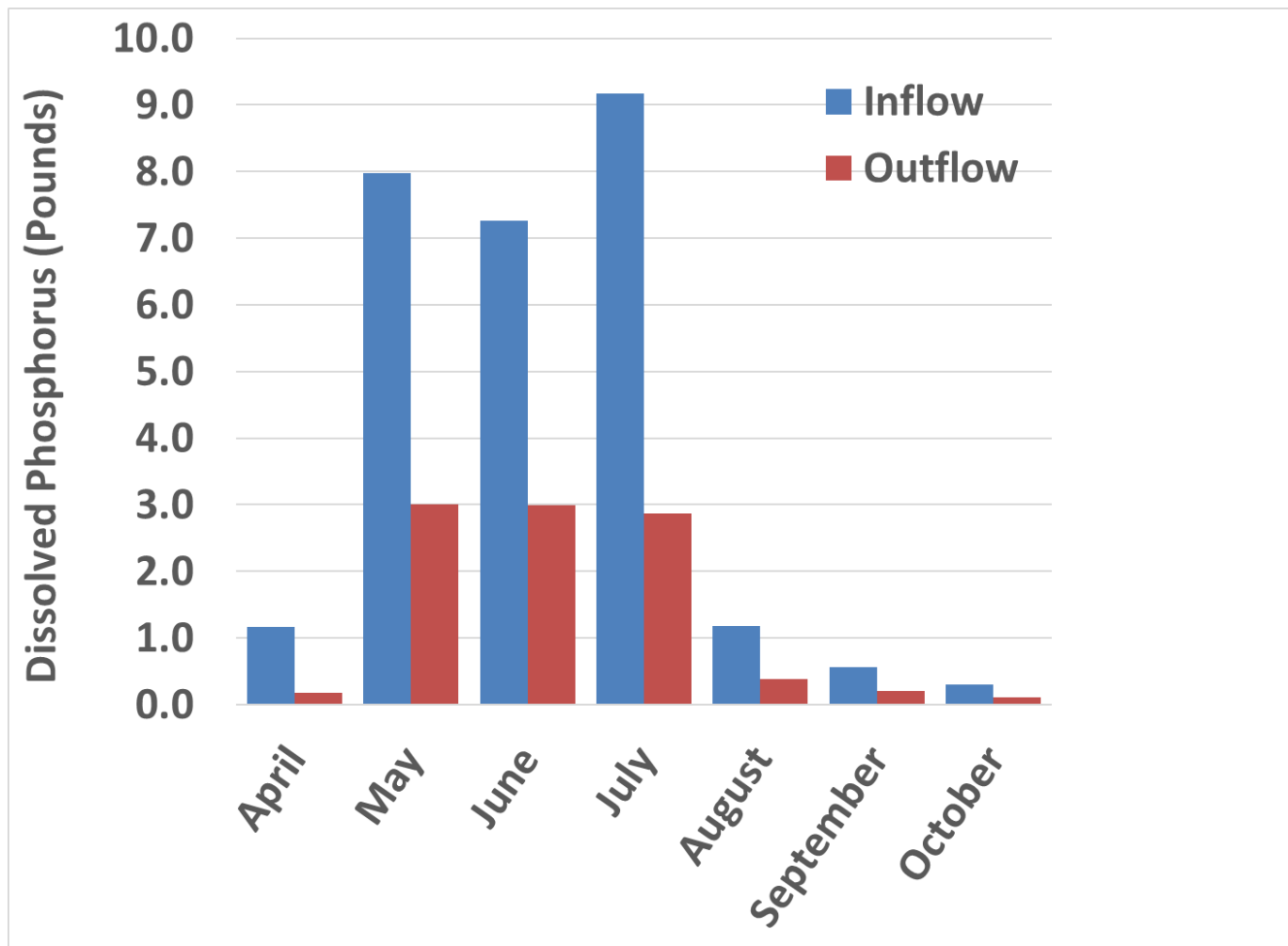


Figure 7. 2020 Inflow and Outflow Dissolved Phosphorus Loads

A monthly summary of gallons of water treated, gallons of alum applied during treatment, and pounds of phosphorus removed during the 2020 operation period for the Tanners alum treatment facility in 2020 is shown in Table 4.

Table 4. Tanners Alum Treatment Facility: Summary of Gallons of Water Treated, Gallons of Alum Applied during Treatment, and the FLUX Modeling Estimate of Pounds of Total and Dissolved Phosphorus Removed during the 2020 Operation Period*

Month	Q73 Chemical used for treatment	Q74 Gallons of alum or ferric chloride treatment	Q75 Gallons of water treated	Q76 Calculated pounds of total phosphorus removed	Q76 Calculated pounds of dissolved phosphorus removed
January	*	0	0	0	0
February	*	0	0	0	0
March	*	0	0	0	0
April	Alum	350	3,246,828	3.8	1.0
May	Alum	422	26,732,008	27.9	5.0
June	Alum	1,663	21,789,437	23.8	4.3
July	Alum	4,365	27,654,095	68.7	6.3
August	Alum	917	6,322,397	7.1	0.8
September	Alum	428	3,430,718	2.1	0.4
October	Alum	205	1,797,152	0.9	0.2
November	*	0	0	0	0
December	*	0	0	0	0

*The 2020 treatment facility operation period was April 28 through October 30. The treatment facility was shut down for maintenance August 7-13 and October 7-25. The gallons of water treated and calculated pounds of total phosphorus and dissolved phosphorus removed is only for the period of operation and does not include the periods when the treatment facility was shut down for maintenance.

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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: May 25, 2021

A. Meetings Attended

Tuesday, May 4	9:00 AM	1W1P BWSR Conversation
	11:00 AM	Meet with AMAZEworks
Wednesday, May 5	9:00 AM	Metro Area Water Planning Meeting
	6:30 PM	Board Meeting
Thursday, May 6	3:00 PM	Media Interview Practice
Monday, May 10	6:00 PM	Twin Lake Association Meeting
Wednesday, May 12	11:30 AM	Daylighting Phalen Creek Meeting
Thursday, May 13	8:00 AM	Water Resources Conference Planning
	9:30 AM	MAWA Executive Committee Meeting
Monday, May 17	12:00 PM	Metro-INET JPA Meeting
Wednesday, May 19	2:00 PM	Meet with City of Roseville re: Victoria Shores
Thursday, May 20	8:00 AM	Water Resources Conference Subcommittee

B. Upcoming Meetings and Dates

CAC Meeting	June 8, 2021
WaterFest	June 19-27, 2021
July Board Meeting	July 7, 2021
Metro MAWD	July 21, 2021
August Board Meeting	August 4, 2021
September Board Meeting	September 1, 2021
CAC Meeting	September 28, 2021
October Board Meeting	October 6, 2021
Metro MAWD	October 20, 2021
CAC Meeting	October 26, 2021
November Board Meeting	November 3, 2021
December Board Meeting	December 1, 2021
MAWD Annual Meeting	December 2-4, 2021
CAC Meeting	December 7, 2021

C. Ongoing Updates

Ramsey County Permitting – This is ongoing. I am continuing to work with Ramsey County staff on this.

District Art Policy – Staff have researched other watershed and city policies on public art related to their cost-share programs. We will provide a draft policy document to the board at the July meeting.

Watershed Based Implementation Funding Letter to BWSR – This letter discussed last month has not been written or sent yet. I am trying to coordinate with other metro watersheds to be consistent in our replies. As I said last month, I will work with Larry on the letter to sign before sending it off to BWSR.

D. UPDATE: COVID-19 Back to the Office Plans (Staff and Board Meetings)

Since the last meeting and discussion on this topic, the CDC and Minnesota guidance on mask-wearing has changed. In response to that guidance, staff was notified that they may go without masks in the office or at district sites if they are vaccinated. I asked staff to continue to have a mask available if they need to comply with another agency's policy or encounter a resident who requests them to be masked. Because we are a small staff, and our office is not open to the public or hosting public meetings, I felt safe lifting the mask requirement in the office. I continue to believe we should leave our office closed to the public and not hold work meetings with outside participants at this time. For staff, I would like to continue the plan to allow maximum flexibility over the summer with a target "back to the office" date of September 7th.

I will be meeting with our board room technology consultant on the 9th of June to verify everything will be ready to go for an in-person board meeting in July if you choose to do that. As we've discussed, I anticipate that we can have the five board members and myself in the room with the public, staff, and consultants virtually through Zoom. I'd like to hear the board's desire to meet in person in July versus waiting until the office is open to the public in September. The Governor's emergency order is still in place that allows for his virtual and hybrid method.

At the last meeting, there was a discussion regarding employee vaccination status and requiring vaccinations to return to the office. I have spoken with health and human resources officials, and it is not advised to require the COVID vaccine while it is under emergency authorization. Even after the full approval of the vaccine, many factors go into whether an organization should require it of their employees. I believe we can safely function with our policies and procedures in place for a small organization like ours without

requiring it. These policies include mask wearing for those unvaccinated, employee self-health screenings, and flexible work from home procedures. I will continue to follow the guidance of health officials and talk with fellow watershed and city administrators as we continue into this year.

E. Equity, Inclusion, and Belonging Training

Last fall and into the winter, I had shared with the board proposals from Twin Cities firms that do equity, inclusion, and belonging training and consulting. It is my desire and was supported by the board to pursue this training with staff and the board to better our organization and the work we do in the community. We desire to explore our hiring practices and ensure that our watershed projects and programs are equitable. I have engaged AMAZEworks to do this work with us. We have a work plan being developed for the next 15 months, including staff, board, and individual training.

The first step in this process is to have staff and the board complete an Intercultural Development Inventory (IDI). You will be invited to attend an hour-long orientation at the end of June (which will also be recorded) and then complete the assessment in July. Following the assessment, you will have time to meet 1:1 with AMAZEwork staff to discuss your assessment. There will be a follow-up full group meeting in August. Following that, there will be different actions for staff and the board. More updates to come as the summer goes on.

The following is a description of the IDI for your information.

RWMWD has engaged AMAZEworks as equity consultants who will help us further our diversity, equity, inclusion, and belonging vision and goals. AMAZEworks will provide an anti-bias, equity-focused lens on the systems and culture of RWMWD by helping leadership and staff identify, recognize, reflect on, and respond to the ways in which identity, difference, and bias have contributed to forming a culture that may negatively impact staff and work relationships, engagement, community, sense of belonging, and organizational structures. AMAZEworks partners with clients where they are at, identifying and prioritizing next steps so that cultural and systems change is possible in order to create belonging.

To begin our equity work, AMAZEworks will engage each staff and board member in taking the Intercultural Development Inventory® (IDI) (www.idiinventory.com). The Intercultural Development Inventory® is the premier cross-cultural assessment of intercultural competence that is used by thousands of individuals and organizations to build intercultural competence to achieve international and domestic diversity and inclusion goals and outcomes. In contrast to many "personal characteristic" instruments, the IDI is a cross-culturally valid, reliable, and generalizable measure of intercultural competence along the validated

intercultural development continuum (adapted, based on IDI research, from the DMIS theory developed by Milton Bennett).

AMAZEworks uses the IDI as a tool for understanding and naming growth and a baseline for future training. Each participant receives a personal hour-long debrief of their individual results and the whole department/staff also receives group results in a session that includes an introduction to basic diversity, inclusion, and equity vocabulary. This is an important first step to deeper understanding of how our identities, differences, and biases impact our ability to interact with others cross-culturally.

We will have an hour-long all-staff IDI orientation with AMAZEworks. At this meeting, you will meet our AMAZEworks consultants and learn more about the IDI as a cross-cultural assessment of intercultural competence.

F. Board Workshop Planning

At the last meeting, the board discussed workshop topics that were of interest. Manager Swope presented some options and asked the rest of the board to send the highest priorities and other suggestions. Here is a summary of what I have heard from the board members and a plan to move forward with workshops in 2021. I have also included some thoughts on board site visits that could be done ahead of board meetings.

To review, the following is a list of workshops the board is considering. I have placed them in order of priority as I have determined based on feedback from you:

- Wetlands
- Governance Responsibilities for the District and the Board
- Modeling use in Risk Assessment for Water Control Strategies

- Review of Beltline Resiliency Study and Project Ranking Tool
- Water Purification Strategies and Options
- Funding Sources for Major Projects

The top three appear to be the most interesting topics to you. That lines up well with my thoughts on what would make a good workshop topic versus what could be covered in a memo or board meeting presentation. To help with the workshop format, I think it is beneficial to hold them in person. I propose that we plan for the wetlands workshop first, in August (if our hybrid meeting format is tested and approved).

The wetlands workshop is the most ready-to-go first, and as you know, we've been talking about it for a while now. The governance workshop will be timely as we complete a new

governance manual this year. We could plan for this workshop in September. I will likely bring in an outside facilitator for this discussion. The modeling workshop needs the most work in defining what would most be beneficial to the managers. We can further define this workshop in the coming months. This workshop could be planned for October. If we push the wetlands workshop to September, I will push each topic by one month as well. I would propose that we plan for the 3rd Wednesday of the month for workshops.

As for the three topics below the "line," I believe those could be done as memos or shorter meeting presentations. The Beltline Resiliency Study and its subsequent feasibility studies are updated monthly in the project and program status report. In addition, I could work on a visual representation of the study recommendations and the status of each of them. Something that helps the board see where we are at a glance and can be updated as we continue with this work. For the state of water quality BMPs and strategies, after further clarification on what you are looking for here, I believe we could put together a presentation on this topic at a board meeting. And for the funding sources topic, I will plan to provide a memo to the board with this information. I can fit these into the agenda as room allows over the next six months.

A board member also suggested that a presentation (like the maintenance program) on our district rules and permitting programs may be worthwhile. I would appreciate your thoughts on that as well.

My main priority in all of this is to give you the information you need to make good policy decisions that guide the work I do along with our staff. I want to use staff and board time in the most efficient way to achieve our watershed goals. I look forward to our discussion on this. At the meeting, I would also like to hear from the board on project sites they are interested in visiting ahead of board meetings. When we get to in-person meetings, we can start to do those in the hour that proceeds the board meetings. And I will schedule those out based on your preferences in sites that you would like to see.

G. District Budget Overview and Process

It was requested that we discuss the district budgeting process and the various budget categories used. I will prepare a presentation that talks through the general fund (and the various subcategories) vs. capital improvement program funds for the meeting. I will reference the 2021 budget documents that I have attached here. I can also talk about the difference between budget and levy. I have received a couple of comments from board members regarding areas of attention to discuss in more detail. They are about public art projects and special project funding like the Phalen Creek Daylighting request.

I have attached the 2021 budget documents for our discussion; they include:

- FY2021 Budget Table – this includes each line item amount that was budgeted for 2021.
- Budget Line Item Breakouts – this is used for more significant budget lines to know what is nestled under the larger category.
- Budget Narrative - this describes each budget line item.

As a reminder, here is the general budget planning timeline:

1. June – I will overview the budget format and categories. I will also provide some historical budget perspectives (as suggested by a board member). We can also discuss how we fund special projects, as talked about above.
2. July – The board will hear from staff on general budgeting plans for 2022. No numbers are shared at this time but more of a general work plan for the next year with program directives specified that would influence the budget numbers.
3. August – This is the first time the board will see a draft budget table with numbers and a detailed description of each budget line item. Discussion by the board will lead me to revise the draft budget for the September meeting. The draft budget is public noticed and also sent to cities and counties for review and comment.
4. September – This month is the required public hearing and preliminary budget and levy approval. I will prepare a short presentation for the board and the public. The budget and levy are approved, and I submit the documentation to the counties for tax levy planning purposes.
5. October/November – No official budget/levy actions are taken, but I am reviewing the current year's budget for carry over potential and project/program status.
6. December – This month is the required final budget and levy approval. I will update the budget and levy projections based on current year spending, but typically, the budget is fairly set. Occasionally, new projects pop up between September and December that need to be addressed in the budgeting process. I would bring those to the board as needed. It is good governance not to make significant changes (especially if it requires additional levy funds) between September and December but, if needed, decided. I must send in the final tax levy certification to the counties by the end of the month.

Fiscal Year 2021 Budget V4
Final Budget and Levy Approval

Budget ID Number	Budget Item		FY 2020 Budget	FY 2021 Budget Funding Source				Total Proposed 2021 Budget	Increase (decrease) from 2020 Budget
				General Fund	Capital Improvements	Carry-over Funds	Other Funds		
1	Engineering	Administration	93,000	93,000				93,000	0
2		Engineering Review	55,000	55,000				55,000	0
3		Permit Application Review	55,000	55,000				55,000	0
4		Permit Inspection and Enforcement	10,000	10,000				10,000	0
5		Project Feasibility Studies	570,000	310,000		130,000		440,000	(130,000)
6		GIS Maintenance	5,000	5,000				5,000	0
7									
8	Attorney	General	40,000	40,000				40,000	0
9		Permit Enforcement	10,000	10,000				10,000	0
10									
11	Managers	Meeting Per diems	8,500	8,500				8,500	0
12		Managers Expenses	3,500	3,500				3,500	0
13									
14	Auditor/Accounting	Auditor/Accounting	60,000	65,000				65,000	5,000
15									
16	Miscellaneous	Dues & Publications	11,000	11,000				11,000	0
17		Insurance	40,000	50,000				50,000	10,000
18		Committee & Board Meeting Expenses	3,500	3,500				3,500	0
19		Miscellaneous	5,000	5,000				5,000	0
20									
21	Administrative	Salary & Benefits	1,450,000	1,520,000				1,520,000	70,000
22		Employee Expenses	10,000	15,000				15,000	5,000
23		Janitorial/Trash Services/Snow Plowing	15,000	15,000				15,000	0
24		Building Maintenance	200,000	150,000				150,000	(50,000)
25		Utilities (gas,electric, water, sewer, maintenance)	20,000	30,000				30,000	10,000
26		Office Supplies	5,000	7,000				7,000	2,000
27		Copying/Printing	8,000	8,000				8,000	0
28		Postage/Delivery	5,000	3,000				3,000	(2,000)
29		Office Furniture & Computer Equipment	150,000	150,000				150,000	0
30		Office Equipment Maintenance	3,000	3,000				3,000	0
31		Training/Education	25,000	75,000				75,000	50,000
32		Telephone	8,000	8,000				8,000	0
33		District Vehicles/Maintenance	43,000	43,000				43,000	0
34		GIS System Maintenance & Equip.	10,000	5,000				5,000	(5,000)
35		Data Base Improvements	5,000	40,000				40,000	35,000
36		IT Services/Internet/Website/Software Licenses	55,000	70,000				70,000	15,000
37		Outside Program Support	57,000	57,000				57,000	0
38		Outside Consulting Services	40,000	20,000				20,000	(20,000)
39									
40	Program	Lake Studies/WRPPs/TMDL Reports	173,000	103,000				103,000	(70,000)
41	Activities	Natural Resources Program	140,000	140,000				140,000	0
42		Water Monitoring-Lab Costs & Equip.	185,000	180,000				180,000	(5,000)
43		Lake Macrophyte Monitoring and Internal Load Management	10,000	70,000				70,000	60,000
44		Research Projects	95,000	95,000				95,000	0
45		Project Operations	160,000	200,000				200,000	40,000
46		Education Program	60,000	60,000				60,000	0
47		Communications and Marketing	25,000	25,000				25,000	0
48		Events	50,000	50,000				50,000	0
49		NPDES Phase II	10,000	0				0	(10,000)
50		Health & Safety Program/Staff In-House Training	3,000	3,000				3,000	0
51									
52	Capital Improvements	Maplewood Mall SRF Loan Debt Service	92,611		92,238	0		92,238	(373)
53	Summary	Beltline and Battle Creek Tunnel Repair Debt Service	307,463		0	302,663		302,663	(4,800)
54		District Office Building Bond Payment	194,885		194,885	0		194,885	0
55		Targeted Retrofit Projects	1,012,000		250,000	2,100,000	460,000	2,810,000	1,798,000
56		Stewardship Grant Fund	1,000,000		700,000	300,000		1,000,000	0
57		Project Repair & Maintenance	1,115,000		825,000	500,000		1,325,000	210,000
58		Wetland Restoration Projects	0		500,000	0		500,000	500,000
59		Wakefield Park Project	100,000		0	0		0	(100,000)
60		Volume Reduction Opportunity Fund	1,600,000		0	0		0	(1,600,000)
61		Flood Risk Reduction Fund	4,000,000		2,000,000	2,200,000		4,200,000	200,000
		Totals	13,411,459	3,869,500	4,562,123	5,532,663	460,000	14,424,286	1,012,827

	Budget Total	Budget Total By Fund		Proposed Levy
		General Fund	CIB	
2021 Budget Total and totals by fund	14,424,286	3,999,500	10,424,786	6,763,498
2020 Budget Total and totals by fund	13,532,258	4,124,500	9,407,758	6,763,498
2021 Budget Increase or (Decrease) from 2020 Budget	892,028	(125,000)	1,017,028	0
2021 Budget % change from 2020 Budget	6.59%	-3.03%	10.81%	0.00%

2021 Budget Program Line Item Breakouts

Project Feasibility Studies (Line 5)	
Emergency Response Plans	\$60,000
Groundwater Next Steps Planning	\$50,000
Hillcrest Golf Course & Gold Line BRT Planning	\$40,000
Flood Risk Reduction Feasibility Continued Work	\$125,000
Battle Creek PFAS	\$25,000
694/494/94 Water Quality Feasibility Study	\$30,000
Subwatershed Assessment for At-Risk Creeks (Fish and Gervais)	\$35,000
Wetland Restoration Workshop, Education, Planning	\$25,000
Contingency	\$50,000
Total =	\$440,000

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

Lake Studies Etc. (Line 40)	
Grant Applications	\$40,000
Watershed Management Plan Updates	\$20,000
Tanners Flood Response Tool Model Update	\$3,000
Subwatershed Feasibility Studies Prioritization	\$15,000
Contingency	\$25,000
Total =	\$103,000

NR Program (Line 41)	
Ongoing Site Maintenance	\$25,000
Owasso Carp Management	\$40,000
Phalen Chain Carp Management	\$10,000
Vadnais-Snail Lake Park Restoration	\$20,000
Electric Carp Barrier	\$40,000
Contingency	\$5,000
Total =	\$140,000

Water Monitoring (Line 42)	
WQ Equipment Replacement and Repair	\$55,000
Lab Costs	\$90,000
Engineering Monitoring Reporting Assistance	\$10,000
Special Project Monitoring: Maplewood Mall, Battle Creek etc	\$25,000
Total =	\$180,000

Research (Line 44)	
Minnesota Stormwater Research Council	\$25,000
Kohlman Test Weirs	\$15,000
Iron Aggregate Pond Application	\$20,000
Internal Research/Contingency	\$35,000
Total =	\$95,000

Education/Events/Communications (Lines 46-48)	
Master Water Stewards	\$10,000
Adopt a Drain Program	\$5,000
Rain Barrel Program	\$5,000
Work in Schools	\$25,000
Education Contingency	\$15,000
Communications and Marketing	\$25,000
WaterFest	\$30,000
Watershed Excellence Awards	\$6,000
Events Contingency	\$10,000
Total =	\$131,000

Targeted Retrofits (Line 55)	
North St. Paul Target	\$1,400,000
St. Rose of Lima	\$260,000
Cemstone Stormwater Reuse	\$300,000
Contingency and Other Prioritized Projects	\$850,000
Total =	\$2,810,000

Project Repair and Maintenance (Line 57)	
2021 Project Repair and Maintenance Contract	\$800,000
Beltline 5-year Inspection Completion and Repairs	\$100,000
Routine Inspections and Unplanned Maintenance ID	\$125,000
BMP and NR Maintenance Program	\$200,000
Contingency	\$100,000
Total =	\$1,325,000

Flood Risk Reduction Fund (Line 61)	
Keller Channel Weir and Phalen Outlet Modifications (2021)	\$150,000
West Vadnais Lake Emergency Overflow - Twin Lake By-Pass	\$50,000
Owasso Basin Flood Risk Reduction Projects	\$2,000,000
Other Flood Risk Reduction and Conveyance Feasibility Study Implementation Projects + Contingency	\$2,000,000
Total =	\$4,200,000

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

2021 BUDGET NARRATIVE

Budget Line No.	Item & Description	Budget Amount	Change from '20 increase (decrease)
General Fund Budget Summary:			
1	Engineering - Administration Oversight of all District Engineering activities, supervising staff assigned to projects, responding to general inquiries of the public and the Board, and preparing correspondence and billings. Engineering attendance at meetings of the District- covers Board and related project meetings, mini case studies, data collection, analysis, preparation of reports as requested by the managers and assisting in District water management planning activities.	93,000	0
2	Engineering - Review Review and comment on plans and proposals submitted to the District for review relative to District regulations, policies and concerns. Assist communities and counties with data and information needs related to projects and plans.	55,000	0
3	Engineering - Permit Application Review and Processing Provides for Engineering assistance in review of all permit applications, clarifying problems with the developer, meet developer on-site, coordinate permit issues with communities, counties, and other regulatory bodies.	55,000	0
4	Engineering - Permit Inspection & Enforcement Inspect projects when a designed improvement is involved and requested by District staff.	10,000	0
5	Engineering - Project Feasibility Studies This item provides a budget item for annual feasibility studies in preparation of future capital improvement projects. See Program Budget Line Item Breakout table. Some of these studies are carryover from 2020 that will not be completed in time while some are new.	440,000	(130,000)
6	Engineering - GIS Maintenance Provides funds for maintenance and assistance of the District GIS system.	5,000	0

Budget Line No.	Item & Description	Budget Amount	Change from '20 increase (decrease)
8	Attorney - General Legal advice at meetings, research on various issues for Board consideration, preparation and publication of legal notices, preparation of Board resolutions, and other matters requiring legal counsel.	40,000	0
9	Attorney - Permit Enforcement Legal advice on permit sites including enforcement activities, letter and legal action as necessary.	10,000	0
11	Manager per Diems Manager per diems for regular and special meeting attendance. Increased budget due to increase in state statute amount allowed for manager per diems.	8,500	0
12	Manager Expenses Manager Expenses incurred in the performance of official manager duties, such as attendance at conferences and meetings and related expenses.	3,500	0
14	Auditor/Accounting Preparation of the District's annual audit and provide monthly accounting services.	65,000	5,000
16	Dues & Publications Dues for appropriate organization memberships (MAWD, League of MN Cities, etc.) and for purchase of necessary publications and reference materials.	11,000	0
17	Insurance District General Liability, Property/Casualty, Public Official Liability insurance, etc.	50,000	10,000
18	Committee & Board Meeting Expenses Budget to cover miscellaneous expenses related to the duties and activities of District advisory committees, such as, meeting refreshments, supplies, public information materials, etc.	3,500	0

Budget Line No.	Item & Description	Budget Amount	Change from '20 increase (decrease)
19	Miscellaneous Expenses Expenses of the District not elsewhere classified. Examples include: miscellaneous financial charges and expenses, District tour expenses, pass through expenses, etc.	5,000	0
21	Staff Salaries, Taxes & Benefits Includes salary, taxes, insurance and benefits for existing full time staff plus summer interns. This budget includes an allowance for a salary increases and increased benefit costs as well as the addition of a water monitoring full time position. See supporting information.	1,520,000	70,000
22	Employee Expenses This includes mileage, parking, and supply expenses incurred by the District's staff.	15,000	5,000
23	Janitorial/Trash Services/Snow Removal Contract services required for office building and winter snow removal.	15,000	0
24	Building Maintenance Building repairs, equipment and landscape maintenance expenses. Decrease is due to larger expenses in 2020 that have been or will be completed.	150,000	(50,000)
25	Utilities (gas, electric, water, sewer) Provides for office building utility expenses.	30,000	10,000
26	Office Supplies Office supply costs for district operations.	7,000	2,000
27	Copying/Printing Photocopying and commercial printing expenses.	8,000	0
28	Postage/Delivery District postage and delivery expenses.	3,000	(2,000)

Budget Line No.	Item & Description	Budget Amount	Change from '20 increase (decrease)
29	Office Furniture and Computer Equipment Acquisition of necessary new and replacement office equipment and furniture.	150,000	0
30	Office Equipment Maintenance To fund office equipment maintenance.	3,000	0
31	Training/Education Training and education expenses for the District staff including pursuing equity/inclusion work.	75,000	50,000
32	Telephone District telephone expenses. Includes office phone system and support costs.	8,000	0
33	Vehicle Replacement, Equipment and Maintenance Provides for fleet maintenance and equipment.	43,000	0
34	GIS System Maintenance & Equipment Provides for continuous upgrading of GIS system data files and equipment as needed.	5,000	(5,000)
35	Database Improvements Provides for improvements to district database programs for permit program, stewardship grant program, inspections and timesheets.	40,000	35,000
36	IT Services/Internet/Web Site/Software Licenses Provides for maintenance and upgrades to computer network and software upgrades. The increase is due to the potential new JPA model for Metro Inet as well as the ability for more staff to work from home and access work networks.	70,000	15,000
37	Outside Program Support Provides budget for financial support of programs that provide support to the District and its goals. See attached list.	57,000	0

Budget Line No.	Item & Description	Budget Amount	Change from '20 increase (decrease)
38	Outside Consultant Services Provides funds for contracting special services with outside consultants as needs arise in the year.	20,000	(20,000)
40	Lake Studies/TMDL Reports This item is for various water body studies and related topics. See attached list	103,000	(70,000)
41	Natural Resources Program This item includes funding for project to enhance ecological diversity within the District – habitat restoration projects, site maintenance, studies and research. See attached list for breakdown.	140,000	0
42	Water Quality Monitoring Includes lab costs and equipment for lake sampling, BMP monitoring and performance monitoring. See attached list for breakdown.	180,000	(5,000)
43	Lake Macrophyte Monitoring and Internal Load Management Program to collect annual or bi-annual lake plant data to monitor changes in District lakes. The additional funds would apply to implementation of internal load management measures in our impaired waters.	70,000	60,000
44	Research Projects This account provides funds for conducting research into various water and resource management issues and problems. The budget includes contributions to the Minnesota Stormwater Research (MSR) program, Kohlman test weir research as well as other potential internal research projects. See attached list.	95,000	0
45	Project Operations This budget provides funds for the ongoing operational costs for District projects that incur utility or supply costs. The increase this year is due to the needs for the new auto lake level monitoring systems as well as the Keller Channel Weir and Phalen Outlet modification operations.	200,000	40,000

Budget Line No.	Item & Description	Budget Amount	Change from '20 increase (decrease)
46	Educational Programming Production of materials and programs designed to improve the understanding and knowledge of the school children, general public, city and county staff, developers and others of the District's programs and watershed management. This includes continued support of Master Water Stewards Program as well as support of the Adopt-a-Drain program. See attached list.	60,000	0
47	Communications and Marketing This will be used to support our communications and marketing plan.	25,000	0
48	Events Provide funds for the annual WaterFest program and Watershed Excellence Awards program.	50,000	0
49	NPDES Phase II This line item in the general fund will be removed as it is an old placeholder. The work done for NPDES Phase II and our MS4 permit is done mostly internally or under engineering support when needed.	0	(10,000)
50	Health & Safety Program/Staff In-house Training Provides funds to support the District staff safety program, training costs, equipment.	3,000	0
Capital Improvement Budget Summary:			
52	Maplewood Mall SRF Loan Debt Service Annual payment for the State Revolving Fund (SRF) loan for Maplewood Mall Phase IV project.	92,238	(373)
53	2016 Beltline and Battle Creek Tunnel Repair Debt Service This is the principal and interest payment for a bond issue approved in 2016.	302,663	(4,800)
54	District Building Bond Payment Provides funds for the annual bond payment for the District office building.	194,885	0

Budget Line No.	Item & Description	Budget Amount	Change from '20 increase (decrease)
55	Targeted Retrofit Projects This budget is to fund projects that have been targeted by the District as a priority project for water quality and natural habitat. Projects are vetted in the current year and potential project implementations are planned for 2021. Projects with the most potential at this time for 2021 are shown on the attached list. Other projects identified to meet the goals for targeted retrofits may also present themselves over the next year. Staff will manage projects within the proposed Targeted Retrofit Projects budget and present them to the board as they develop. This budget includes levy funds, carryover, stormwater impact funds, and potential grant funds. This line can also be amended to shift Volume Reduction Opportunity Funds as the same parameters for projects apply.	2,810,000	1,798,000
56	Stewardship Grant Fund Provide funds for cost-share assistance to local road authorities, churches, public and private developers and homeowners for funding of volume reduction, habitat restoration, and other practices above the requirements of District rules.	1,000,000	0
57	Project Repair and Maintenance Provides funds for the maintenance of District projects and trunk conveyor system. Also includes funds for continuation of a BMP maintenance program and a contingency fund. See attached list.	1,325,000	210,000
58	Wetland Restoration Projects This is a placeholder for the board to consider for projects that would include wetland restoration work. This item can be fine-tuned for the rest of this year and the board can consider hearing about the restoration site search and potential project prioritization and whether or not to direct staff to implement a project.	500,000	500,000
59	Wakefield Park Project This project is complete and will be removed from in 2021.	0	(100,000)

Budget Line No.	Item & Description	Budget Amount	Change from '20 increase (decrease)
60	Volume Reduction Opportunity Fund This fund is proposed to be closed and transferred to the Targeted Retrofits Fund to be used in 2021.	0	(1,600,000)
61	Flood Risk Reduction Fund Provides funds for flood control projects including acquisition or flood proofing of existing flood prone structures. Assistance to cities to reduce flood risks in areas identified by District modeling of Atlas 14 storm events could also be included. Approximately \$2,000,000 would be carryover from 2020 and \$2,200,000 would be levied in 2021. These proportions will be fine-tuned as the year goes on ahead of the final levy approval in December. This fund pools money for projects that meet the board's flood risk reduction goals. Some of the carryover will be needed to finish up the 2020 Keller Channel Weir and Phalen Outlet Modifications project as well as to be prepared for the potential need to activate the West Vadnais Lake Emergency overflow Twin Lake Bypass. Projects identified out of the Owasso Basin Flood Risk Reduction Feasibility Study are included and listed in the line items breakout attachment.	4,200,000	200,000

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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 2021
Date: May 26, 2021

Project feasibility studies

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.



**PROPERTY SURVEY
MAY 24-JUNE 5
YOUR RESPONSE REQUESTED**

The Ramsey-Washington Metro Watershed District and Barr Engineering Co. are completing a survey of lower elevation areas on residential properties near lakes, rivers, or streams as part of a drainage study.

What to Expect

The District's surveyors are requesting access to your outdoor property as part of this crucial work. Survey crews will not need access inside buildings. The Barr survey crew will be in your area sometime between May 24 and June 5. They will spend approximately 1 to 2 hours on your property. The surveyors will NOT enter your property without permission.

How to Give Consent

Follow **one** of the three options:

1. Text the code below to XXXXX to consent and receive updates when surveyors are onsite
2. Fill out and mail back the attached form with your consent
3. Give verbal consent to staff when this flyer is dropped off

To consent to the survey and receive updates, text _____ to XXXX or return the attached form in the addressed envelope.

Questions? Email tina.carstens@rwmwd.org or call 651-792-7960

During May, Barr created and distributed 28 notification letters to commercial, institutional, and multiunit properties announcing survey activities planned for the area. Barr and district staff also created a flyer (see image at left) that was delivered to 41 single-family homes to explain the work and allow residents to consent to surveyors accessing their properties.

Surveying of businesses and multifamily homes is nearing completion. Using business reply mail and an opt-in text service, we are gaining new permissions to survey single-family home properties and are starting those surveys this week.

In some cases, homeowners have reached with questions about survey work, ultimately granting permission once they understand the intent of the effort. The processing of laser scan data also began this week, and elevation data has been passed along to Barr's modeling group to help determine actual structures in the flood zone.

Also this period, we began outlining a PowerPoint presentation that will be used in future discussions with the City of Little Canada regarding emergency response plan options for the North Star Estates manufactured home park. At this meeting, city and district staff will discuss the collection of additional site information to inform the plan, such as grade,

utilities, and low floor elevations as well as the inspection of manufactured home foundations within the modeled 100-year floodplain. Federal Emergency Management Agency (FEMA) guidelines concerning the protection of manufactured homes from flood waters will be leveraged in these discussions and in the definition of emergency response actions, where appropriate.

This information will also be used to help inform next steps in flood risk reduction efforts laid out as part of the Owasso Basin bypass feasibility study. Next steps involve fine-tuning more permanent flood risk reduction options in North Star Estates, as well as exploring options for implementing a diversion berm west of Spruce Street to protect West Industrial Park and a stormwater pond to the southwest of Owasso Basin—both for flood risk reduction and water quality improvement purposes (phase 3: West Industrial Park berm and pipe with pond development).

FEMA flood mapping updates (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)

The purpose of this project is to use the RWMWD's updated stormwater model to develop information required to update the FEMA floodplain maps. Minnesota Department of Natural Resources (DNR) grant funding is being used.

All deliverables defined in the Minnesota DNR grant agreement have been submitted. Barr informed the DNR that we are available to help respond to comments or clarify information, if the DNR requests. This additional work could be covered by remaining grant funds or by a separate agreement with the DNR.

Kohlman Creek flood risk reduction feasibility study (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of this study is to evaluate the benefit-cost relationships of infrastructure changes throughout the Kohlman Creek subwatershed by reviewing potential pipe 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 100-year floodplain in this area. This study is a follow-up step to the Beltline resiliency study.

Surveying of the Kohlman Creek area is being coordinated with the emergency response planning described above. Survey elevations being collected include the low opening and low adjacent grade near each structure considered to be at risk of flooding based on our review of the LiDAR data. This information is needed to provide more accurate elevations than those estimated from LiDAR to determine which structures within the flood zone warrant more attention.

Flood damage reduction projects that were described conceptually in the Beltline resiliency study will be evaluated in greater detail for both the Kohlman Creek subwatershed feasibility study and the Ames Lake area feasibility study.

This period, Barr reviewed storm sewer data for some of the smaller systems surrounding PCU Pond. The City of North Saint Paul provided this data as a part of the FEMA flood mapping review and comment period conducted through the Minnesota DNR. Barr is considering whether small portions of the district's model should be updated to reflect additional storage in the area that could affect the

flood level estimated for PCU Pond. We have requested more information from the city to determine what information should be added, if any.

Ames Lake flood risk reduction feasibility study (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens)

The purpose of this study is to evaluate the benefit-cost relationships of infrastructure changes that would remove habitable structures from the floodplain in this area. This study will be phased. The first phase (currently underway) involves communications with the City of Saint Paul about how to approach flood management in this area, which involves both regional and localized flooding issues. The second phase (if pursued) will encompass reviewing potential pipe 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, as defined in partnership with the city. This study is a follow-up step to the Beltline resiliency study.

Surveying of the Ames Lake area is being coordinated with the emergency response planning described above. Survey elevations being collected include the low opening and low adjacent grade near each structure considered to be at risk of flooding based on our review of the LiDAR data. This information is needed to provide more accurate elevations than those estimated from LiDAR to determine which structures within the flood zone warrant more attention.

This period, Barr continued modeling efforts in areas where low elevations have already been confirmed (or adjusted) through site surveys last fall. Other areas will be reevaluated after the remaining site surveys are completed in early June.

Monitoring water quality/project monitoring

Special project best management practice (BMP) monitoring (Barr project manager: Katie Turpin-Nagel; RWMWD project manager: Paige Ahlborg)

The primary objective of this project is to monitor specific water quality BMPs that the RWMWD has implemented, particularly those that include filtration media such as iron-enhanced sand, spent lime, or CC17 crushed limestone aggregate, and/or which leverage continuous monitoring and adaptive control (CMAC) technology.

This period, Barr and the RWMWD continued to plan monitoring and maintenance efforts for the Willow Pond CMAC spent-lime filter in Roseville's Willow Pond Park. We continue to coordinate long-term monitoring of lakes, stormwater ponds, and watershed BMPs.

Research projects

Shallow lake aeration study (Barr project manager: Keith Pilgrim; RWMWD project manager: Bill Bartodziej)

The purpose of this study is to evaluate the potential effectiveness of aeration in shallow lakes by studying the effect of aeration in two smaller shallow systems (Markham Pond and Frog Pond) in detail during 2021 and 2022.

This period, Barr initiated field activities planned for May, including monthly field sampling events until the end of September.

Phalen Chain of Lakes changes in water quality (Barr project manager: Keith Pilgrim; RWMWD project manager: Bill Bartodziej)

The primary objective of this study is to develop an overall assessment of a number of at-risk or total maximum daily load (TMDL) lakes with respect to the magnitude of internal phosphorus loads, benefits of controlling internal loads, and potential internal-load mitigation approaches.

Recently, Barr evaluated changes in phosphorus loading in Kohlman Creek from 2009 to 2020 to understand the effect of BMP implementation on phosphorus loads in the creek. The previously developed P8 model (for the Kohlman Lake TMDL) and monitoring data were employed to determine if current phosphorus loads (e.g., 2019 and 2020) are lower than loads in 2009, 2010, and 2011 (pre-BMP implementation).

Project operations

2021 Tanners Lake alum facility monitoring (Barr project manager: Meg Rattei; RWMWD project manager: Eric Korte)

The purpose of this project is to complete monitoring and reporting required by the general National Pollutant Discharge Elimination/State Disposal System permit for municipal separate storm sewer systems (MS4s).

The Tanners Lake alum facility began operation for the season on April 14. RWMWD staff are collecting weekly samples, and Barr and the district summarized and analyzed the 2020 data and developed the required MS4 report, per permit requirements. The RWMWD also completed its MS4 permit application, which includes a section for the alum treatment facility..

Automated lake monitoring systems (Barr project manager: Chris Bonick; RWMWD project manager: Eric Korte)

The purpose of this project is to install a system to monitor lake levels throughout the district and allow real-time transfer of data to the RWMWD's website for public consumption. These stations are an outcome of the portion of the Beltline resiliency study that assists district staff in operating the Phalen outlets and Keller channel gates.

Physical installation of the four newest stations (Spoon, Battle Creek, Twin, and Tanners lakes) is complete. The stations have been surveyed to tie in lake elevations to water depths, and the dataloggers have been programmed to record both elevation and depth. Barr finished setting up the data management software (VDV), which allows the RWMWD to view real-time lake level data and download historic data. In June, Barr will create the Power BI reports and graphs, which will be incorporated into the district's website for public viewing.

Capital improvements

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.

Construction is expected to begin at the North Saint Paul Target site in early July 2021. Change order 1 is included as a part of the consent agenda for consideration at the June 2 board meeting.

Remaining construction work at the East Saint Paul Target site was completed in early May; outstanding tasks included spot bituminous installations and restoration and rain garden planting. During the process, a sinkhole was discovered in one of the rain gardens, which we suspect is due to a leaking sprinkler line. The contractor and a Target representative will work with Target's irrigation contractor to resolve the issue with minimal disruption to the rain garden.

Targeted retrofit projects (Barr project manager: Matt Kumka; RWMWD project manager: Paige Ahlborg)

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

Final design and bidding have been completed on the St. Rose of Lima parking lot retrofit, in partnership with the City of Roseville. The city is leading contracting with the apparent low bidder, OMG Construction. The RWMWD's portion of the work includes reducing impervious surface of the parking lot without losing stalls by reorienting the stall positions and adding larger islands to support trees. The City of Roseville is installing an underground storage and infiltration system, while the church is contributing money for asphalt reconstruction. Site construction, beginning with the underground infiltration system, is currently underway, with the district's portion of the project to immediately follow.

Keller channel weir and Phalen outlet resiliency modifications (Barr project manager: Greg Nelson; RWMWD project manager: Tina Carstens)

This project includes design, bid document development, bidding, permitting, and project procurement of modifications to the Keller channel structure and the Phalen outlet structure. The purpose is to implement a design that will allow the RWMWD to remotely adjust the weir heights on the Keller channel structure and the Phalen outlet structure in accordance with an approved operating plan. Operation of the structures under certain conditions will help reduce upstream flood levels where homes exist in the floodplain. This CIP is an implementation item from the Beltline resiliency study.

During this period, the contractor finished installing all gates and associated electrical conduits to each control panel. The subcontractor, In-Control, assembled and delivered the control panels for the mechanical gates and programmed the elevations to make the initial operating settings. Final site restoration is in progress.

Xcel Energy expects to finish installing power service at the site in early June. Once power is supplied, final system calibration and configuration will occur, and In-Control will provide user training and instructions to Barr and the RWMWD soon after. The computer that operates the system will be housed at the district office; however, the system will be enabled to operate the gate via a handheld device. Partial payment application 5 is included for board consideration.

Ryan Drive and Keller Parkway conveyance (Barr project manager: Sam Redinger; RWMWD project manager: Dave Vlasin)

The purpose of this project is to implement improved conveyance through Gervais Creek, as recommended by the Owasso Basin bypass feasibility study. This CIP is an implementation item from the study recommended in the Beltline resiliency study.

Barr and the RWMWD are awaiting a pending contract submittal and schedule from Fitzgerald Excavating, the contractor awarded this project, before issuing the notice to proceed and scheduling a preconstruction meeting.

The Minnesota DNR permit is also pending, and the district construction permit has been conditionally approved; Fitzgerald will coordinate other required permits. The City of Little Canada has been organizing right-of-entry access agreements and temporary construction easements to residents and businesses on whose property project work will occur beyond existing right-of-way or easement limits. Three of the six right-of-way agreements have been received, with the remaining three pending.

CIP project repair and maintenance

Beltline/Battle Creek tunnel five-year inspection (Barr project manager: Sam Redinger; RWMWD project manager: Dave Vlasin)

The purpose of this project is to maintain the existing Beltline and Battle Creek tunnel systems and infrastructure owned and operated by the RWMWD.

Minger Construction Co., Inc. completed first the McKnight Basin Structure 98 repairs, followed by the Beltline East Mechanic Branch repairs, during the week of May 3. The remaining portion of the 2020 inspection (the Mississippi River Branch and Battle Creek pipe), along with the baseline survey of the Battle Creek pipe, will be completed this fall/winter as flow conditions allow and the tunnel(s) can be accessed safely.

CIP maintenance/repairs 2021 project (Barr project manager: Greg Nelson; 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.

During this period, the contractor (Fitzgerald) finished work at Tamarack Swamp in Woodbury and at Margaret Pond in North Saint Paul. Change order 2, included in the consent agenda, is for additional fill material placed at Margaret Pond at the city's request; the city will reimburse this work at the end of the

project. The contractor continues to make progress on the remaining work items and is on track to meet the substantial completion date.

Progress payment application 3 and change order 2 are included in this month's consent agenda.

Natural Resources Update – Bill Bartodziej and Simba Blood

Carp Management

Warmer lake water temperatures and a couple of substantial rain events have triggered carp spawning migration in the Owasso and Phalen Chain of Lakes. Generally, the bulk of the migration takes place in few week period, from late May into the first part of June. NR staff are now checking all of the barriers on a daily basis.

The first migration event took place on May 21st. At two barrier locations, one in the Phalen Chain and one in Owasso, staff were able to harvest a large majority of carp that were up against the barriers. We can think of this as an added bonus since the primary function of the barriers is to keep carp from making their way into prime spawning grounds (ponds and wetlands without bluegill sunfish). Below is a brief pictorial of the May 21st harvesting event.



This barrier is located at the Lake Owasso inlet. It keeps carp from moving into the Victoria Wetland Complex to the south. Solar panels power a PIT tag antenna and a data logger. This enables us to determine the number of tagged fish that swim up to and are stopped by the barrier.



Matt and intern Mike are dumping netted carp into a holding tub. The fish are calmly put to sleep with clove oil. We captured nearly 100 carp, ranging from 4-5 lbs.



Kohlman Creek: In the background, a chain link fence was place in front of the box culvert that takes water under HWY 61. This effectively trapped carp that were located in front of the barrier. A pipe barrier is located about 10' in front of the crew in this picture.



In the background is the Kohlman Creek weir structure with the pipe barrier set in the outflow notch. Matt is holding a 36" female carp, likely carrying over one-million eggs. These large females were headed to the Kohlman Basin and the associated wetland complex to spawn. Breaking this migration pattern severely limits carp recruitment in the Phalen Chain. This ongoing management is essential in keeping the population at low levels in the Chain.

Public Involvement and Education Program – Sage Passi

Service Learning at Ames Lake Engages L'Etoile du Nord 4th and 5th Graders



Four fourth and fifth Grade L'Etoile du Nord classes (teachers: Gasho, Mang, Tran and Klein) hiked to Ames Lake to explore the life in the wetland and do a clean-up around the park with RWMWD education staff on May 6 and May 11. Nick Gasho, a fourth grade teacher at this east St. Paul school has involved his classes with service learning projects here and at Beaver Lake over the past seven years. The fifth graders visited the site in the winter of 2020 as fourth graders and performed water quality tests through the ice with the help of RWMWD water quality and education staff. We had planned for them to return and see the lake in the spring last year so this was finally possible in 2021 as Covid restrictions lessened. After the trash clean-up, the classes explored the site using a bingo sheet and answered reflection questions.



(Left) Fourth graders discover a Canada goose sitting on a nest near the boardwalk . (Right) Wetland Bingo and the Reflection Questions encourage inquiry and observation at Ames Lake.

Eagle Scout Team Refurbishes Children's Discovery Academy Native Garden area



For his Eagle Scout project, Rohan Faier (above left) engaged friends, family and Watershed staff and others to give Children's Discovery Academy's native garden a facelift.

Last summer Rohan Faier, a Little Canada High School student inquired about the possibility of doing an Eagle Scout project to remediate a city installed rain garden across from his cul de sac residence on Lake Gervais that was overrun with thistle and other weeds. Upon examination, that project needed more attention than we had time to complete late last summer. As an alternative, we suggested a different revitalization project at the daycare down the street from our watershed office that we were prioritizing in 2020. Rohan was amenable to this redirection and remained in contact as we explored the issues and the possibilities throughout last summer and fall in the midst of Covid limitations. Because of a leadership transition in the Eagle Scout project supervision process the project was moved to this spring. We are glad we waited to work on the site until 2021, because when the snow melted this late spring we discovered a big issue with the garden.

Over the winter a snow plow had pushed a rock border section next to the parking lot into the garden, uprooting key front gardens and disrupting part of the walking path through the garden. On May 5, Rohan, his brother, Cathy Troendle, Master Naturalist Mike Laughton and Sage Passi met to prep for the project by removing this rock, shoveling soil back into the flower beds, rearranging the trail boulders, cleaning up the front beds and transplanting some of the plants that had been uprooted by the snowplow.

On Saturday, May 8, Rohan organized a team of his friends, his brother, his parents, the new Eagle Scout project supervisor and watershed staff to re-mulch the trails and planting beds, weed the garden and cut down last year's growth. It was great to discover that one of Rohan's volunteers had helped our watershed district plant native flowers and grasses at Wetland A restoration site in Snail Lake Regional Park a couple springs ago with his class from St. John's School. Small world! In early summer Rohan intends to work with Sage and other volunteers to add plants to the garden and team together to design and create signage to teach and engage the young children and their parents who often stroll through this beautiful and diverse prairie and woodland oasis. This is an education project we have wanted to do for years!

Rain Garden Spring Clean-Up at Weaver Elementary in Maplewood



Two fifth grade classes at Weaver Elementary took on the spring maintenance of their rain garden on April 28 by cutting down last year's vegetation, bagging it up and removing debris from the inlet. They paired this with a learning activity about pollinators led by Master Naturalist and Watershed Consultant Cathy Troendle. Since mid April they have been watering and tending the native seedlings they transplanted and are growing under lights at their school.

Water Stewards Tackle Invasives at Wetland A in Snail Lake Regional Park



It is not every day that volunteers come away refreshed from a couple hours of pulling and digging out weeds at a wetland site. But on May 19 five Water Stewards from around the Twin Cities who helped us remove motherwort and garlic mustard from the east side of Wetland A in Snail Lake Regional Park concurred that they came away uplifted by the beauty of the park and expressed great satisfaction from their accomplishment at this restoration site! Thank you to volunteers Megan Gardner (upper left), recent graduate in environmental studies and daughter of RWMWD Shoreview Water Steward, Paul Gardner, Stephanie Wang (above right), Woodbury Water Steward and RWMWD's CAC member, and Water Stewards Barb Patterson (Minnehaha Watershed District), Cindy Petrie (Rice Creek Watershed District), Marilyn Nelson (Roseville Water Steward) and Anna Barker (RWMWD Water Steward) who came on another day to get oriented about future weeding sessions. It's great to have cross watershed collaboration and support for watershed projects!

Weaver Fifth Graders Explore Wakefield Lake and Park in May 25 Field Day



Three Weaver Elementary fifth grade classes visited Wakefield Park on May 25 to explore the wildlife, flora, rain gardens and water quality of Wakefield Lake. This was their first field trip for the year. For one of the classes who have been meeting virtually all year because of Covid, it was their first time to meet each other! The students did a walking bingo scavenger hunt and studied the water quality of the lake by doing dissolved oxygen tests, using a transparency tube and exploring the types of macroinvertebrates in the lake. It was an exciting day for all of us!

Communications Program Report – Lauren Hazenson

Communications Strategy and General Updates

Waterfest

We continued promoting the event this month via social media posts, article content for local publications, and local event calendar submissions.

Carp Fishing Contest

Communications hired contractor Maddy Bohn to conduct event planning for the carp fishing contest pilot planned for July through Labor Day weekend this summer. The contest will feature several pop up events including carp fishing workshops for varying ages. I will do the event promotion for the event and coordinate with the Citizen Advisory Council volunteers.

Emergency Response Plans and Flood Risk Reduction Studies Outreach

I assisted with the redesign of the resident notification flyer for survey work and met with Barr Engineering staff to discuss mass texting delivery. I also contracted a translation service to provide the flyer content in Spanish, Hmong, and Karen.

New Intern

Communications Intern Dani Follett-Dion joined the organization on May 10th. She is a junior at University of Minnesota Twin Cities majoring in Communications. Dani has begun work on a yard care best practices social media series and is documenting field work for the Natural Resources and Education departments.

Permitting and Inspection Surveys

The permitting and inspection stakeholder surveys were completed and will be delivered after permitting and inspection processes are completed throughout the year.

Publications/ Original Content

Flood Risk Mitigation Fact Sheets

We completed the second round of edits for the flood mitigation fact sheets this month. The fact sheets will be posted to the redesigned education webpages as soon as they are completed.

Wetland A Interpretive Signage

The signage work group opted to hire another illustrator to complete the signage content. I coordinated the intake meeting with the illustrator and conducted content review meetings with the work team.

Social Media (Facebook, Twitter, Instagram)

Numbers as of 5/24 for May:

Audience: 2,622

Impressions/Post Views: 3,461

Engagement (likes, comments, shares): 160

Facebook's algorithms have limited the reach of posts that received higher impressions based on the number of likes in the past. This may be in response to the lower number of ads purchased by us on the platform in the last two months. Although **our total Facebook page audience has grown by 25% in the past year** and the posting rate has remained consistent, our reach is falling. This provides a strong case for moving away from Facebook as our primary social media channel and focusing more efforts on new tools like Nextdoor and other channels offering better reach. **Our Instagram audience has also seen significant growth, with a 78% audience increase in the past year** and shows better reach overall than Facebook. I recommend we keep Facebook posting static and increase posting on our other three social media channels.

Website Updates

We contacted several web design agencies with the target of migrating our hosting and support services before commencing the website redesign project. The earliest a web design firm could offer redesign services was mid to late July, due to a surge in demand for web services this spring. Communications and Education will update the "Clean Water Tips" page on the site and create a new "Watershed 101" page to expand the watershed basics content on the site. The page updates will also include more information on how residents can become better stewards of neighborhood water bodies, like water friendly yard care practices.

We also reviewed temporary measures to refresh home page content in order to retain more website visitors. These measures will be minimal in order to reduce confusion when more permanent redesign changes are introduced later in the year.

Miscellaneous

- Media small group training
- Meeting with AMAZEworks equity consultant
- Ames Lake sculpture unveiling communications
- Planning for media small group training

WaterFest Update – Maddy Bohn

Overview

Event Dates: June 19 - June 27, 2021

Location: Lake Phalen Regional Park

Time: 11am-6pm DAILY

Sponsorships

- Sponsorship registration is closed.
- We locked in 12 sponsors – coming in at \$7,000
- Those organizations include: Capitol Region WD, City of Landfall, City of North St. Paul, City of Roseville, City of Shoreview, City of White Bear Lake, City of Little Canada, City of Maplewood, Galowitz Olson, Ramsey County, Metropolitan Council Environmental Services and Ideal Print.

Marketing

- Postcards have been printed and will be distributed to schools, recreation centers and local organizations.
Please note that the printing of these cards have been donated by Ideal Printers
- Announcement shared with the Minnesota Monthly, Minneapolis/St. Paul Magazine, Do It Green Minnesota, Visit St. Paul, St. Paul District Councils, Woodbury Magazine
- Potential AM radio advertising opportunity – Lauren will cover this interview segment.
- Email will be going out to all our previous exhibitors/participants to update them on the current status of WaterFest and the event dates.

Grounds Activities

- Twin Cities Paddlesports
 - Afternoon sessions for kids interested in trying a new water sport. To prevent over-crowding, participants will sign up ahead of time. Paddles and boats will be disinfected between rides. Waterfest will provide and gift personal floating devices. Currently working with a vendor to determine estimates.
This activity has been moved from the boat launch to the Lakeside Center due to construction taking place at the boat launch starting early June.
- CHAT (Center for Hmong Arts and Talent)
 - Lantern release to honor those we lost in 2020. ***This event will not happen during WaterFest but has been moved to July 16, 2021
 - Instead CHAT will set up an craft and education activities table during WaterFest.
- Phalen Creek Corridor Walk – Unable to host our Phalen Creek corridor walks outside of Capitol Region Watershed District’s boundaries. They will set up a table instead to share information.
- Goose Chase App (online scavenger hunt) has been approved and the activities are currently being set up.

To: Board of Managers and Staff
From: Tina Carstens and Brad Lindaman
Subject: Project and Program Status Report May 2021
Date: April 29, 2021

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- Capitol Region WD – Water Wildlife Scavenger Hunt – includes sidewalk chalk stencils
- Adopt a Drain – learn how you can make an impact by keeping your neighborhood drain clean
- Wilderness Inquiry – June 27, join us for a canoe ride on Lake Phalen
- Lake Phalen Rowing – Learn how to row! Will be exhibiting on the weekends
- Lake Phalen Sailing – Come sail away! Will be exhibiting on the weekends
- Urban Roots – How does a raingarden work?

SEE CURRENT (tentative) activities map attached.

Online Activities are HERE!

[Take a look at what we have to offer.](#)

Volunteers

- [A link has been created for volunteers to sign up.](#) T-shirts will be given to volunteers. Depending on the number of exhibitors we will have 1-2 volunteers per shift. The volunteers will be supervising the exhibits.
 - o Shifts will be in 3-hour sessions from June 19-27
 - Shifts: 10am-1pm, 1-4pm, 4-7pm
 - o **We currently have 14 volunteers signed up and the shifts availability schedule will be released soon.**

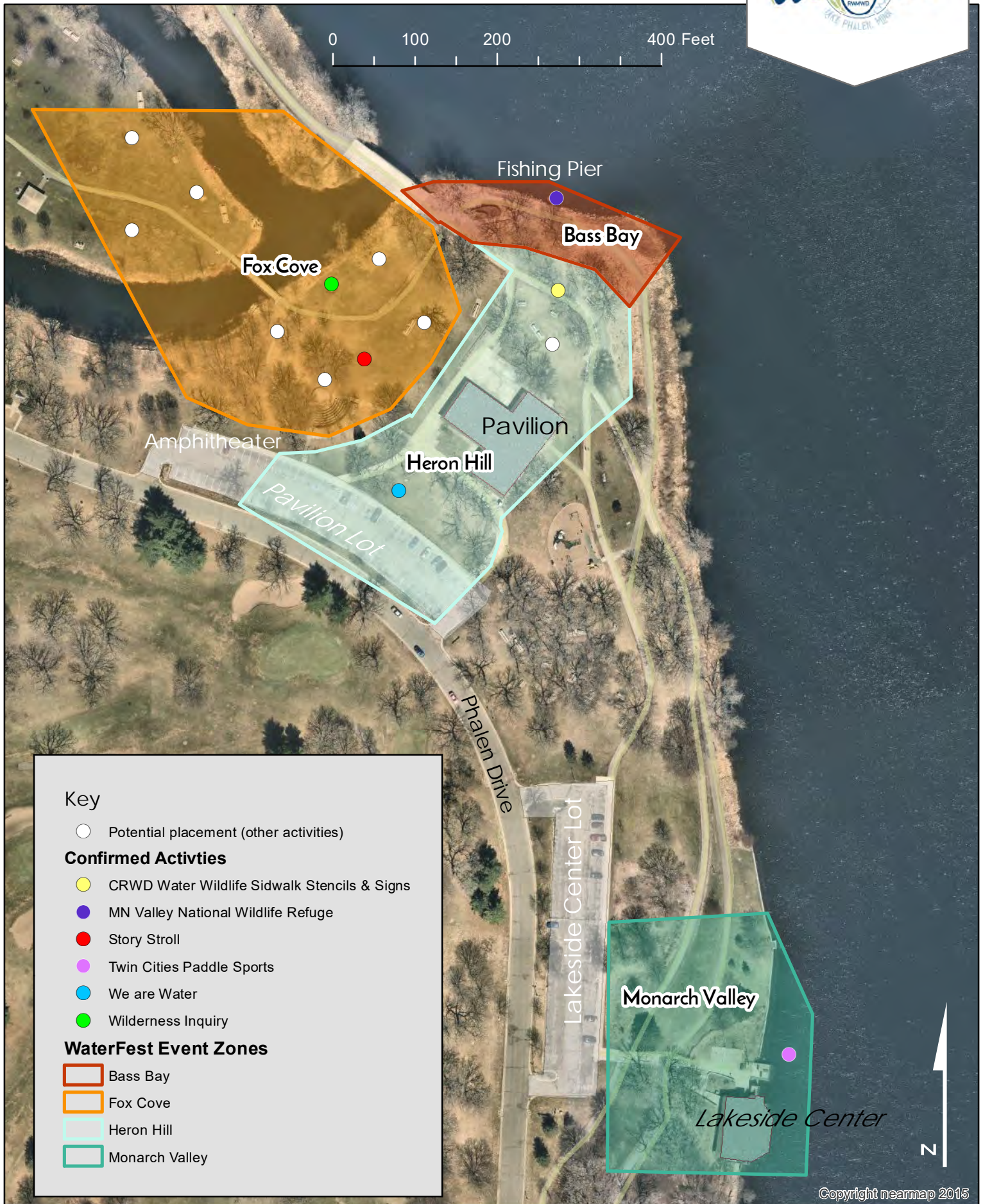
Prizes + Tshirts

- Personal Floating Devices have been ordered and will be picked up soon. Distribution of these prizes are still TBD
- T-shirts have been ordered!

Activity Map WaterFest 2021



0 100 200 400 Feet



Key

- Potential placement (other activities)

Confirmed Activities

- CRWD Water Wildlife Sidwalk Stencils & Signs
- MN Valley National Wildlife Refuge
- Story Stroll
- Twin Cities Paddle Sports
- We are Water
- Wilderness Inquiry

WaterFest Event Zones

- Bass Bay
- Fox Cove
- Heron Hill
- Monarch Valley