

# May 2020 Board Packet

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# Agenda

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#### **Regular Board Meeting Agenda**

Wednesday, May 6, 2020 6:30 P.M.

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 April 1, 2020 including written visitor comments. (pg. 8)
  - B. Treasurer's Report and Bill List (pg. 24)
  - C. Review and Accept the 2019 District Annual Financial Audit (pg. 33)
  - D. Permit Applications
    - i. 20-17 Woodbury PFAS Treatment Facility, Woodbury (pg. 123)
    - ii. 20-20 Maplewood Dennis-McClelland SIP, Maplewood (pg. 127)
    - iii. 20-21 Tartan High School Redevelopment Phase I, Oakdale (pg. 130)
    - iv. 20-22 Maplewood Elementary, Maplewood (pg. 134)
  - E. Stewardship Grant Program
    - i. 20-10 CS Knappmiller, native habitat restoration (pg. 139)
    - ii. 20-11 CS Ramundt, rain garden, native habitat restoration (pg. 141)
    - iii. 20-12 CS Jacobson, native habitat restoration (pg. 143)
    - iv. 20-13 CS Brenner, filtration basin (pg. 145)
    - v. 20-14 CS Carver Lake Parking Lot, rain garden, native habitat restoration (pg. 147)
- 4. Visitor Comments (limited to 4 minutes each)

- 5. Permit Program
  - A. Applications permit below include variance requests and therefore were not included in consent agenda
    - i. 20-19 Maplewood County Road B and Arcade, Maplewood (pg. 150)
  - B. Enforcement Action Report (pg. 161)
- 6. Stewardship Grant Program
  - A. Applications see consent agenda
  - B. Budget Status Update (pg. 164)
- 7. Presentations and Action Items
  - A. Twin Lake Outlet Action Items (pg. 166)
    - i. Operation Plan Update (pg. 167)
    - ii. 20-18 RWMWD Twin Lake Outlet Project Permit (pg. 173)
    - iii. Approval of Plans, and Authorization to Advertise for Bid (pg. 181)
  - B. Beltline Resiliency Study Accept Response to Comment and Finalize Report
- 8. Administrator's Report (pg. 192)
  - A. Meetings Attended
  - B. Upcoming Meetings and Dates
  - C. COVID-19 District Update
  - D. Ramsey County Property Tax Extension
  - E. Introducing Lauren Hazenson Communications and Outreach Coordinator
- 9. Project and Program Status Reports (pg. 195) (\*\*\*for discussion at meeting)
  - A. Ongoing Project and Program Updates
    - i. Beltline Resiliency and Phalen Chain Water Level Studies
    - ii. West Vadnais to South I-694 Conveyance Feasibility Study \*\*\*
    - iii. FEMA Flood Mapping
    - iv. Automated Lake Monitoring Systems
    - v. Wakefield Park/Frost Avenue Stormwater Project
    - vi. Targeted Retrofit Projects
    - vii. Target Stores Stormwater Retrofit Projects\*\*\*
    - viii. Aldrich Arena Stormwater Project
    - ix. Keller Channel Weir and Phalen Outlet Resiliency Modifications
    - x. West Vadnais Lakes Outlet Lowering \*\*\*
    - xi. CIP Maintenance and Repair 2020 Project
    - xii. Beltline/Battle Creek Tunnel Inspection

<sup>\*</sup>Items in **bold** signify that an action needs to be taken by the Board.

- xiii. Natural Resources Program
- xiv. Education Program
- 10. Report of Managers
- 11. Adjourn

<sup>\*</sup>Items in **bold** signify that an action needs to be taken by the Board.



# NOTICE OF BOARD MEETING Wednesday, May 6, 2020 6:30 PM

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

Per Minnesota Statute 13D.021, President Marj Ebensteiner 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, May 6, 2020, 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:

JOIN MEETING

(https://us02web.zoom.us/j/82171061324?pwd=d0xmVkJYdUtNM2RrVzZMdFp3aUhMZz09)

The meeting room will open at 6:20 pm with the meeting starting at 6:30 pm. To connect to audio you may choose to use your computer audio options or you may use your mobile device to call. The phone access number is (312) 626-6799. The Meeting ID is 821 7106 1324. The meeting password is 026703.

If you have any questions, please contact Tina Carstens at <a href="mailto:tina.carstens@rwmwd.org">tina.carstens@rwmwd.org</a>.

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# Consent Agenda

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# Ramsey-Washington Metro Watershed District Minutes of Regular Board Meeting April 1, 2020

The Regular Meeting of April 1, 2020, was held at the District Office Board Room, 2665 Noel Drive, Little Canada, Minnesota, at 6:30 p.m.

Due to the COVID-19 pandemic, this month's Board meeting was held via a video conferencing platform called Zoom. Board members, staff consultants and general public were able to join in via video and/or phone. Only items requiring action were included in the packet and on the agenda. Visitor comments were emailed to <a href="mailto:tina.carstens@rwmwd.org">tina.carstens@rwmwd.org</a> prior to the meeting. Some comments that were pertinent to agenda items were read at the meeting but the full comments submitted are attached to these minutes.

ABSENT:

PRESENT:

Marj Ebensteiner, President Cliff Aichinger, Vice President Lawrence Swope, Treasurer Dianne Ward, Secretary Dr. Pam Skinner, Manager

#### ALSO PRESENT:

Tina Carstens, District Administrator
Tracey Galowitz, Attorney for District
Brandon Barnes, Barr Engineering
Robert Johnson, Resident
Kelly Bopray, Frattalone Wetland Specialist
Matt Woodruff, Frattalone Civil Engineer
Burt Johnson, Twin Lake Association President
Cheryl LeClair-Sommer, Twin Lake Resident

Paige Ahlborg, Project Manager
Brad Lindaman, Barr Engineering
Nicole Soderholm, Permit Coordinator
Terry Telega, Twin Lake Resident
Bruce Copley, Crestview Resident
Mitch Honsa, Frattalone Design Engineer
Terry Siebent, St. Paul Emergency Management Director
Tim Freeman, Frattalone Development Consultant

#### 1. CALL TO ORDER

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

#### 2. APPROVAL OF AGENDA

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

Further discussion: A Manager requested to add a manager comment period at the end of the agenda and asked whether visitor comments were going to be received. It was noted that the agenda did not include that element. Attorney for the District provided input noting that amendments to the agenda would need to be done via motion.

<u>Motion</u>: Manager Swope moved, Manager Aichinger seconded, to add a manager comment period to the end of the agenda.

A roll call vote was performed:

aye

Manager Swope

Manager Aichinger aye Manager Skinner aye Manager Ward aye President Ebensteiner nay

Motion carried.

Motion: Manager Swope moved, Manager Ward seconded, to add visitor comments to the agenda.

Further discussion: A staff member stated that the agenda asked that visitor comments be provided to her prior to the meeting via email, which will be distributed to the Board and can be included fully in the meeting minutes. A manager stated that the meeting was setup to have visitor comments submitted in this method and the intent is to keep this meeting short. A manager stated that she was under the impression that providing the instructions to visitors on how to access the meeting meant that visitors would be able to make comments. Two managers stated that they would be opposed to allowing visitors to comment at this meeting in this format. A Manager noted that comments specific to a permit can be reviewed by staff during the discussion of that item, rather than allowing visitor comments during this meeting.

A roll call vote was performed on the motion to add Visitor Comments to the agenda:

Manager Swope nay
Manager Ward aye
Manager Aichinger nay
Manager Skinner nay
President Ebensteiner nay

Motion failed.

A roll call vote was performed to approve the agenda:

Manager Aichinger aye
Manager Skinner aye
Manager Ward aye
Manager Swope aye
President Ebensteiner aye

Motion carried.

#### 3. VERBAL UPDATE FROM ADMINISTRATOR ON RWMWD COVID-19 RESPONSE

A staff member provided an update on the District response to the COVID-19 pandemic. Staff is working from home as much as possible, while some staff continue to complete essential service work in the field. Staff continues to respond to email and voicemail messages and completing work. A staff member confirmed that while staff is working from home, they continue to receive full salary and any work in the field requiring two employees requires those employees to drive separately.

A Manager suggested delaying the May meeting to later in the month which could possibly allow for an in-person meeting. Staff members provided input on payment of the bills and the 60-day review timeline. Additional Managers stated that they would like to hold the May meeting on the regular date in a similar format, if needed, in order to complete necessary business. It was the consensus of the Board to hold the regular May Board meeting on its regular date in an electronic format.

#### 4. APPROVAL OF THE REGULAR MEETING MINUTES OF MARCH 4, 2020

<u>Motion</u>: Manager Aichinger moved, Manager Skinner seconded, to approve the March 4, 2020 meeting minutes as presented.

Further discussion: A Manager requested to add, under the Beltline Resiliency Study, it should state, "...all of the elements comments received..." Under the Target Store Retrofit Project, the following statement should be added, "Staff indicated that they would prepare information on the cost per pounds of phosphorus removal for past projects."

A roll call vote was performed:

Manager Swope aye
Manager Aichinger aye
Manager Skinner aye
Manager Ward aye
President Ebensteiner aye

Motion carried.

#### 5. TREASURER'S REPORT AND BILL LIST

Motion: Manager Aichinger moved, Manager Ward seconded, to approve the April 1, 2020, bill list as submitted.

Further discussion: Staff noted that funds will be received in June from a grant received for the retrofit project and the District will receive the first tax levy portion in July.

A roll call vote was performed:

Manager Swope aye
Manager Skinner aye
Manager Aichinger aye
Manager Ward aye
President Ebensteiner aye

Motion carried.

#### 6. PERMIT PROGRAM

#### A. <u>Applications</u>

Permit #20-14: Central Park Pathway Maintenance – Roseville

A staff member stated that the city is looking to maintain trails within a park, noting that the existing trails are located within a wetland complex and therefore the District rules were triggered. The city will provide compensatory storage resulting in no net loss of floodplain.

Motion: Manager Swope moved, Manager Ward seconded, to approve Permit #20-14.

A roll call vote was performed:

Manager Aichinger aye
Manager Skinner aye
Manager Swope aye
Manager Ward aye
President Ebensteiner aye

Motion carried.

#### Permit #20-15: Spoon Lake Boat Launch Reconstruction

A staff member stated that this application is to reconstruct a boat launch that triggered the floodplain rule. Ramsey County Parks will provide compensatory storage for the fill placement.

Motion: Manager Aichinger moved, Manager Swope seconded, to approve Permit #20-15.

A roll call vote was performed:

Manager Swope aye
Manager Ward aye
Manager Aichinger aye
Manager Ward aye
President Ebensteiner aye

Motion carried.

#### <u>Permit #20-16: Mondello Shores + #20-03 WCA Mondello Shores Wetland Replacement Plan – Vadnais Heights and</u> Little Canada

A staff member provided a brief presentation on the project which is proposed on the Frattalone property and would replace the light agricultural use that currently exists with residential development. The project meets the volume reduction water quality standards. The project results in work below the floodplain and therefore compensatory storage is proposed. The project would result in a net increase of flood storage and decrease in the existing runoff rates. The project would propose to fill the smaller northern wetland and expand the southern wetland, which would meet the District's policy for no net loss of wetlands. The applicant is also submitting a wetland replacement plan to satisfy the WCA requirements, noting that the applicant will be purchasing wetland bank credits to satisfy the requirement. The applicant submitted a variance request for disturbance to the wetland buffer in order to complete the work. The applicant would be required to obtain a MPCA permit and comply with District and State regulations for erosion and sediment control. Additional information was provided on the condition related to the District's outlet, which would need to occur in order for the development to be constructed as proposed. The permit is consistent with other developments permitted through the District.

Motion: Manager Aichinger moved, Manager Skinner seconded, to approve Permit #20-16 and #20-03 WCA.

Further discussion: A Manager asked if the southern wetland could be expanded further so that the purchase of offsite wetland credits would not be necessary. A staff member explained that the type of replacement that could be done would not meet the WCA requirements which is why additional credits are necessary. A Manager asked under what conditions, if any, the site would overflow to Twin Lake. A staff member stated that the peak runoff rates would decrease and provided additional information on how the water would discharge from the site. The staff member confirmed that there are situations in which water would run from this property into Twin Lake and reviewed the current runoff rates compared to the runoff rates under the proposed development as well as the provision that the connection would be required to the MnDOT system. A Manager asked if this additional flow would impact the flow to Owasso Basin and other downstream areas. A staff member confirmed that runoff volume from that site would be conveyed into the MnDOT system and would discharge south, and in order to mitigate that additional volume the outlet would be provided with flexibility for the Managers to operate it in a manner to mitigate that risk. The staff member provided additional details on the operation plan that would be necessary. A staff member confirmed that, as proposed, the flow rate to Twin Lake would not increase over the current conditions. A Manager provided additional details on the operation plan that was discussed recently, noting that the Managers supported opportunistic discharge during the summer months. A Manager asked how

the 100-year flood level would be impacted under the alternative configuration included by the applicant. A representative explained that WCA requires an alternative option to be shown, which is what that document was. The staff member explained that if that alternative would follow, that wetland would not maintain hydrology and would not be preferred over the proposed configuration. A Manager stated that they would be hesitant to allow this to move forward without allowing the residents that desired to make comments be allowed the ability to speak.

A staff member read aloud portions of visitor comments related to this application for the Board to receive and consider with additional staff members providing additional clarifications. It was confirmed that the Board makes it decision based on the information provided and is separate from the city approvals. Staff confirmed that they could follow up with Vadnais Heights to discuss the activity at the Vadnais Heights Planning Commission meeting.

A roll call vote was performed:

Manager Swope aye
Manager Ward nay
Manager Skinner aye
Manager Aichinger aye
President Ebensteiner aye

Motion carried.

#### 7. STEWARDSHIP GRANT PROGRAM

#### A. Applications

Permit #20-06 CS: Butler – Native Habitat Restoration

Motion: Manager Aichinger moved, Manager Ward seconded, to approve Permit #20-06 CS.

A roll call vote was performed:

Manager Aichinger aye
Manager Swope aye
Manager Ward aye
Manager Skinner aye
President Ebensteiner aye

Motion carried.

Permit #20-07 CS: Keller Golfview - Porous Parking

Motion: Manager Aichinger moved, Manager Swope seconded, to approve Permit #20-07 CS.

Further discussion: A Manager asked for clarification on the portion of the porous pavement that the cost-share would fund and whether there is adequate flow to the area to reduce stormwater runoff. A staff member confirmed that the cost-share would only fund a portion of the porous pavement that the applicant is installing and confirmed that there would be adequate flow to result in reduced stormwater runoff.

A roll call vote was performed:

Manager Aichinger aye
Manager Swope aye
Manager Skinner aye
Manager Ward aye

President Ebensteiner ave

Motion carried.

Permit #20-08 CS: Hagerman – Master Water Steward Shoreline Restoration

Motion: Manager Swope moved, Manager Ward seconded, to approve Permit #20-08 CS.

Further discussion: A Manager commented that this is a great area for restoration and hoped that it would encourage others to complete similar work. Another Manager asked if this area would be inundated if the water level in Lake Gervais were to increase. A staff member replied that the plantings should not be impacted.

A roll call vote was performed:

Manager Ward aye
Manager Skinner aye
Manager Swope aye
Manager Aichinger aye
President Ebensteiner aye

Motion carried.

#### 8. MANAGER COMMENT PERIOD

A Manager commented on the minutes that were just approved, asking how the District intends to follow up on the items that the Board requested additional information on. A staff member replied that those items could be included in the next Board packet. A Manager stated that they would still like to continue the discussion related to the new minute format, as the manager found the new method extremely hard to follow and believed that it reduced the transparency to the outside world. Another Manager proposed to postpone that discussion until the Board can meet in person to allow for a more interactive discussion.

It was the consensus of the Board to postpone the special wetland meeting until a time the Board can meet in person

A Manager asked that the Board be provided with the full packet, including project and program updates, even if those items are not included on the agenda.

Staff noted that the decision on WaterFest will be made later in April, but advised that the event will most likely be canceled.

A Manager asked for a status update on the lowering of the West Vadnais outlet. A staff member provided an update, noting that staff has reached out to a contractor that is available and interested and could begin work once the District receives the necessary permits from the DNR and MnDOT. The staff member commented that the permits should be obtained the next week, with the contractor beginning the following week.

A staff member provided an update on the interview process for the Communications Coordinator position.

#### 9. ADJOURN

<u>Motion</u>: Manager Swope moved, Manager Skinner seconded, to adjourn the meeting at 8:35 p.m. Motion carried unanimously.



Visitor comments received ahead of April 1, 2020 RWMWD Board Meeting for submission in meeting minute record.



From: Bruce Copley

To: Tina Carstens; Marj Ebensteiner; Lawrence Swope; Cliff Aichinger; Pam Skinner; Dianne Ward

Cc: Matt Gray; Steven La Berge; Greg Windsperger; James Mulholland; Sheila and Ken Otto

**Subject:** Visitor presentation for April 1, 2020 board meeting

Date: Wednesday, April 1, 2020 7:02:17 AM
Attachments: April 1,2020 RWMWD board meeting.docx

Caution: This email originated outside our organization; please use caution.

Tina,

I have attached the visitor presentation that we from Crestview addition would like to make at the upcoming board meeting. In your published agenda there is not a time listed for visitor presentations at this meeting.

Given the unique nature of this month's board meeting I understand why you are trying to keep the agenda as short as possible, but we do want to get our comments into the record for this meeting.

Please let me know how you would like to handle this evening.

Thanks,

Bruce

In Crestview addition we are highly concerned about the developing situation.

The water district elected not to pursue opportunistic pumping of W. Vadnais Lake during a winter and early spring that seemed ideal for this. The Barr models predicted up to 2 months of benefit into May would have resulted. In hindsight even more pumping and benefit may have been achieved.

Now we find ourselves in a situation where Grass and W. Vadnais lakes are within inches of overflowing again. The GFS accumulated precipitation model for the next 12 days shows 2+ inches of rain. Up to 4 inches are predicted if the actual precipitation moves just 40 miles south. I expect this would put all storage areas near capacity before we have even entered the rainy season.

When storage capacity is near the max, it puts Crestview addition at high risk of major flooding should significant rainfall occur. This is especially true right now. You may recall that the emergency response plan required a Suzanne pond pump upgrade to prevent the flooding of Crestview addition.

The existing pump in Suzanne pond has been slowly failing and took a significant turn for the worse in the last few weeks. The pond has been steadily rising. Shoreview brought in a temporary pump to keep the pond from overtaking sheds and homes.

The temporary pump can only move water to North Gramsie pond, but not to Grass Lake where it could exit the area. Water pumped to North Gramsie pond flows back into Suzanne pond and raises the groundwater level near the Gray home. In fact their sump pumps are working full-time to keep his basement dry.

The temporary pump only circulates water from Suzanne pond to North Gramsie pond and then back to Suzanne in an infinite loop. We are 2 years after the emergency response plan was put in place for our neighborhood and the critical upgrade, construction of a new pump system, has still not even started.

Neither the existing system nor the temporary pump will save us if we get a large storm. Only by keeping Grass and W. Vadnais as low as possible will we have a chance of dodging a catastrophe. None of this should be a surprise to you as Barr modeled this in the emergency response plan.

Please reconsider opportunistic pumping of W. Vadnais lake as we work with Shoreview to complete the new pumping system.

The second issue I would like to address is with regard to the Mondelo Shores Permit application. This whole area is key to dealing with water that flows to and from Twin lake and also dealing with overflow plans for West Vadnais lake.

It appears from the diagrams that the surface area available for floodwater storage in a 100 year event is being significantly reduced. The Beltline Resiliency draft shows much of this area is flooded in 100 year event.

If this surface area is not available to spread the water out in a large rainstorm I fear there will be significant problems that cannot be addressed at a later date.

Possibly more important, is the fact that the permit request does not deal with the rate at which water leaves this area, only the replacement of lost wetland. The rate at which it goes into Owasso basin is critical.

Finally, some of the plans in the beltline study require use and modification of MnDOT ponds. I do not believe that careful consideration has been given to how this development could impact future construction of the proposed projects in the beltline study. Development in this area should be held up until all of these issues are resolved.

From: Burt Johnson
To: Tina Carstens

**Subject:** Re: Automatic reply: Update from a neighbor with solid data

**Date:** Wednesday, April 1, 2020 11:15:16 AM

**Caution:** This email originated outside our organization; please use caution.

Tina,

My comments for now are below. I may revise them or add to them later on.

On Twin Lake, we are all aware of the public health crisis that is going on and are hoping for the safety and public health of all through the pandemic.

We are also sincerely concerned that water levels are now the cause of sincere concerns that remind us of last year. The recent rain has substantially raised the surface elevation of the lake. Several homeowners have taken accurate readings and those readings are well above the proper historic outflow elevation of Twin Lake.

The West Vadnais berm has not been overtaken but the water level has come closer to the crest of the berm.

We know that the watershed has put plans in place to restore an outlet. Our association has advised that the outlet needs to be maintained at the historic elevation outflow of ditch number 16. At the March meeting, we observed the Board take action to put an Operations Plan together for the outflow to be targeted at 872.2 and that is appropriate. The initial Barr report operations plan had the "trigger level" of opening the gate at 873.5 based on concerns down flow. The problem with that logic is that the targeted elevation has little to no relevance of downstream risk. The pace at which water flows to the south and its proximity to rain events are the only things that matter downstream. So there is no reason to arbitrarily target any surface elevation above the historic outflow for Twin Lake. It was frustrating to hear Bahr engineering make that statement without any support for this arbitrary target. We ask the watershed district to target a surface elevation for Twin Lake at its historic elevation consistent with the 872.2 gate. We understand that the gate may need to be closed to 1. Prevent back flow from the Frattalone property and 2. Prevent flooding downstream until more capacity is built downstream. We are very happy to see that the watershed district is also building capacity down stream so that this operations plan Kenmore securely establish our historic outflow in the future. But, even until then, the watershed district can adopt an operations plan that targets it's a proper elevation and opens the gate when it's safe to do so.

We are concerned about the West Vadnais elevation level and the need to commence pumping there. Please address that.

We are also concerned about the Frattallone development and its impact on all of the surrounding areas in terms of backflow into Twin Lake and water quality. We urge the watershed to thoroughly review and question this development to address these concerns. Residents are offering comments independently as to the development.

Many residents continue to be interested in exploring shoreline restoration. I would ask that

the watershed look into doing some type of video conference technology to allow interested residence to learn more about it.

Also, could the watershed help coordinate a video conference discussion related to water quality and aquatic species in Twin Lake with DNR?

I perfectly understand the inability to hold these public meetings in a large group, however, it may be a really good opportunity to use videoconferencing technology to move this process forward even while people are primarily stuck at home.

Thank you.

Burt Johnson Twin Lake Assn. From:Cheryl Leclair-SommerTo:Tina CarstensCc:Cheryl Leclair-Sommer

Subject: Tonight"s meeting - Please provide this information to the RWMWD Board for submission into the public

comments

**Date:** Wednesday, April 1, 2020 3:03:53 PM

**Caution:** This email originated outside our organization; please use caution.

#### Dear RWMWD Board Members,

Thank you for the opportunity to comment on upcoming issues relative to Twin Lake and the Frattalone Development (near Twin Lake).

I have one main issue to comment upon and ask that the RWMWD Board Members consider relative to the Frattalone Development in Vadnais Heights.

At the meeting of the City Council of the City of Vadnais Heights, this development was considered and accepted as a Variance to the City of Vadnais Height Shoreland Ordinance since the site to be developed rests within the riparian guidelines covered by the municipal ordinance (as developed some time ago without the assistance of the DNR). Previously at the Planning Commission, the reasons for the variance were listed as: the city has very little property abutting Twin Lake and the water discharge will NEVER flow into Twin Lake. The City Planner indicated this information was based upon information provided by RWMWD. Please confirm this statement is accurate that RWMWD provided this information to the City of Little Canada (it seems likely). If the information is not accurate, the proposal should be returned to the City of Vadnais Heights planning commission for a public hearing based upon actual facts.

At the same meeting of the City Council of the City of Vadnais Heights, I brought up the problem of potential maintenance of the filtration pond, which will eventually drain underground into the wetland nearer to the culvert draining back/forth between Twin Lake and the wetland, eventually into "Ditch 16." A city council member asked this question of the City Planner, who indicated on the record that this issue would be in the hands of the RWMWD. So, in that regard I have the following concerns:

Relative to maintenance of the filtration pond, THERE IS CURRENTLY NO PLAN FOR MAINTENANCE, DETERMINATION WHO IS FINANCIALLY RESPONSIBLE FOR MAINTENANCE, INSPECTION OR MAINTENANCE SCHEDULE, MAINTENANCE OR REPAIR STANDARDS, NOR ANY MONEY SET ASIDE BY THE DEVELOPER OR HOMEOWNERS ASSOCIATION OR THE CITY OF VADNAIS HEIGHTS to be sure that this filtration pond is maintained to serve the intended purpose (Slow and clean water that will drain underground into the wetland).

These provisions are absolutely necessary in order for the filtration pond to filtrate sediment and to slow the water proceeding into the wetland (that may pass into Twini Lake).

Please provide a clear message to the City of Vadnais Heights and require the City to provide:

1. An annual inspection by a professional with a report provided annually to RWMWD

relative to all drainage within this development and the condition of the filtration pond;

- 2. A maintenance plan for when the floor of the filtration pond gets filled in and needs to be retrenched;
  - 3. The guidelines to be utilized in inspecting and maintaining the filtration pond;
- 4. The responsible party to provide the budget to inspect and maintain/rehabilitate the filtration pond; and
- 5. Place signs around the filtration pond every 25-35 feet indicating "no dumping of any kind." Otherwise, It is human nature to dump leaves at the back of their lot to the lowest spot; and
- 6. The drainage from this high density development (for a riparian overlay district) should never allow any water to flow into the wetland (other than through the filtration pond) and all drainage from this development shall flow only into the wetland. If the water from the development increases the level in the wetland beyond 872, the City of Vadnais Heights agrees to be financially responsible for remediating this movement of water north into Twin Lake and re-engineering the drainage so that it flows through the filtration pond only at a rate anticipated and acceptable to the RWMWD.

There are other issues relative to the current high water in Twin Lake but I will defer those comments to others.

Thank you for your time and consideration. Sincerely yours,

Cheryl LeClair-Sommer 285 Twin Lake Trail Little Canada, MN 55127 From: <u>Terry Telega</u>

To: Burt Johnson; Tina Carstens

Cc: Angie Malone Agency, Amit Chandra; Cheryl Leclair-Sommer; KYLE WAHLSTROM; Melissa Elke; Stanton Martin;

Val Eisele; Ward Isaacson

**Subject:** Re: TL association

**Date:** Wednesday, April 1, 2020 5:28:06 PM

**Caution:** This email originated outside our organization; please use caution.

#### Hello,

As a member of the twin lake association, my question is how will it even benefit us to have a pipe or outlet installed at 872.1 feet when Fratalone has created a second smaller pond at a higher elevation. The water from his development runs into this pond and directly into our lake. Only when the water level is high enough will the excess water run into the larger pond and then to the outlet pipe. This guarantees the water from his development will run into our lake first before it goes into the outlet pipe. We believe he did this about three years ago. Our water level will never get down to the 872.1 because of his actions. How was he even allowed to do this and what action can we take to change this? I will follow this with pictures we took today.

According to our neighbor, the lake level rose 7" with the last rain.

I just took pictures today of this area. The video shows the water running our lake. I will send them separately.

Sent from my iPhone

From: Burt Johnson
To: Tina Carstens

**Subject:** Re: Automatic reply: Update from a neighbor with solid data

**Date:** Wednesday, April 1, 2020 6:00:12 PM

**Caution:** This email originated outside our organization; please use caution.

Tina,

One more comment to add to my previous email:

Some residents submitted comments on the Frattalone development and concerns about the filtration system and water coming into Twin Lake via a culvert that has not yet been addressed by the watershed. We are all concerned that the watershed will give a permit to Frattalone at a time when we cannot attend the meeting and before an adequate study has been completed as to all of the sources of potential inflow to Twin Lake have been studied.

The concerns of residence in our area need to be addressed prior to permitting the Frattalone development. I understand the pandemic and that we cannot have an in person meeting. I do wonder if submitting written comments in advance is sufficient for allowing public participation. Thanks for your work.

Wishing safety and health to you and all watershed employees.

Burt

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# RWMWD BUDGET STATUS REPORT Administrative & Program Budget Fiscal Year 2020 4/30/2020

					Current		Current	
		Account	Original	Budget	Month	Year-to-Date	Budget	Percent
Budget Category	Budget Item	Number	Budget	Transfers	Expenses	Expenses	Balance	of Budget
Manager	Per diems	4355	\$8,500.00	-	-	500.00	\$8,000.00	5.88%
	Manager expenses	4360	3,500.00	-	-	-	3,500.00	0.00%
Committees	Committee/Bd Mtg. Exp.	4365	3,500.00	-	219.00	1,053.50	2,446.50	30.10%
	Sub-Total: Managers/Committees:		\$15,500.00	\$0.00	\$219.00	\$1,553.50	\$13,946.50	10.02%
Employees	Staff salary/taxes/benefits	4010	1,450,000.00	-	103,232.67	432,415.11	1,017,584.89	29.82%
	Employee expenses	4020	10,000.00	-	1,184.55	1,882.38	8,117.62	18.82%
	District training & education	4350	25,000.00	-	-	855.04	24,144.96	3.42%
	Sub-Total: Employees:		\$1,485,000.00	\$0.00	\$104,417.22	\$435,152.53	\$1,049,847.47	29.30%
Administration/	GIS system maint. & equip.	4170	15,000.00	-	707.00	1,694.02	13,305.98	11.29%
Office	Data Base/GIS Maintenance	4171	5,000.00	-	-	-	5,000.00	0.00%
	Equipment maintenance	4305	3,000.00	-	-	-	3,000.00	0.00%
	Telephone	4310	8,000.00	-	57.48	229.92	7,770.08	2.87%
	Office supplies	4320	5,000.00	-	283.22	1,105.77	3,894.23	22.12%
	IT/Internet/Web Site/Software Lic.	4325	55,000.00	-	4,413.71	17,131.74	37,868.26	31.15%
	Postage	4330	5,000.00	-	-	143.55	4,856.45	2.87%
	Printing/copying	4335	8,000.00	-	294.00	1,535.35	6,464.65	19.19%
	Dues & publications	4338	11,000.00	-	-	7,500.00	3,500.00	68.18%
	Janitorial/Trash Service	4341	15,000.00	-			15,000.00	0.00%
	Utilities/Bldg.Contracts	4342	20,000.00	-	3,949.78	13,954.89	6,045.11	69.77%
	Bldg/Site Maintenance	4343	200,000.00	-	145.13	3,590.82	196,409.18	1.80%
	Miscellaneous	4390	5,000.00	-		377.00	4,623.00	7.54%
	Insurance	4480	40,000.00	-	33,918.00	34,275.02	5,724.98	85.69%
	Office equipment	4703	150,000.00	-	479.10	479.10	149,520.90	0.32%
	Vehicle lease, maintenance	4810-40	43,000.00	-	284.98	30,525.24	12,474.76	70.99%
	Sub-Total: Administration/Office:		\$588,000.00	\$0.00	\$44,532.40	\$112,542.42	\$475,457.58	19.14%
Consultants/	Auditor/Accounting	4110	60,000.00	-	2,236.59	11,817.73	48,182.27	19.70%
Outside Services	Engineering-administration	4121	93,000.00	-	6,946.00	25,212.90	67,787.10	27.11%
	Engineering-permit I&E	4122	10,000.00	-			10,000.00	0.00%
	Engineering-eng. review	4123	55,000.00	-	3,798.00	11,155.00	43,845.00	20.28%
	Engineering-permit review	4124	55,000.00	-	3,083.50	18,980.00	36,020.00	34.51%
	Project Feasibility Studies	4129	570,000.00	-	13,633.23	34,847.73	535,152.27	6.11%
	Attorney-permits	4130	10,000.00	-	2 552 00	12.000.00	10,000.00	0.00%
	Attorney-general Outside Consulting Services	4131 4160	40,000.00 40,000.00	-	3,553.00	12,069.00	27,931.00 40,000.00	30.17% 0.00%
	Sub-Total: Consultants/Outside Services:	4100	\$933,000.00	\$0.00	\$33,250.32	\$114,082.36	\$818,917.64	12.23%
D	•	4270		\$0.00		. ,		
Programs	Educational programming	4370	60,000.00	-	71.44	5,593.59	54,406.41	9.32%
	Communications & Marketing	4371	25,000.00		- 	1,469.61	23,530.39	5.88%
	Events	4372	50,000.00	-	5,519.72	18,592.03	31,407.97	37.18%
	Water QM-Engineering	4520-30 4650	185,000.00 160,000.00	-	16,482.24 4,842.23	42,684.93 14,186.99	142,315.07	23.07% 8.87%
	Project operations			-			145,813.01	
	SLMP/TMDL Studies Natural Resources/Keller Creek	4661 4670-72	173,000.00 140,000.00	-	5,866.50 4,315.06	7,312.00 9,821.70	165,688.00 130,178.30	4.23% 7.02%
		4670-72	67,000.00	-	4,313.06	29,464.45	37,535.55	43.98%
	Outside Prog.Support/Weed Mgmt. Research Projects	4695	95,000.00	-	12,810.50	12,810.50	82,189.50	13.48%
	Health and Safety Program	4697	3,000.00	-	48.75	139.39	2,860.61	4.65%
	NPDES Phase II	4698	10,000.00	-	46.73	135.35	10,000.00	0.00%
	Sub-Total: Programs:	4036	\$968,000.00	\$0.00	\$53,959.81	\$142,075.19	\$825,924.81	14.68%
GENERAL FUND TO						. ,		
		F4.C	\$3,989,500.00	\$0.00	\$236,378.75	\$805,406.00	\$3,184,094.00	20.19%
CIP's	CIP Project Repair & Maintenance Targeted Retrofit Projects	516 518	1,115,000.00 1,012,000.00	-	29,438.97 46,302.35	696,852.61 125,624.23	418,147.39 886,375.77	62.50% 12.41%
	Flood Risk Reduction Fund	518	4,000,000.00	-	,	138,152.41	,	3.45%
	Debt Services-96-97 Beltline/MM/Battle Creek	520	4,000,000.00	-	30,322.74	276,886.63	3,861,847.59 123,187.37	3.45% 69.21%
	Stewardship Grant Program Fund	528-529	1,000,000.00	-	19,208.39	31,093.99	968,906.01	3.11%
	Impervious Surface Volume Reduction Opportunity	528-529	1,600,000.00		13,208.39	31,033.39	1,600,000.00	0.00%
	Wakefield Park Project	553	100,000.00		2,028.50	2,358.50	97,641.50	2.36%
	District Office Bond Payment	585	194,885.00	_	2,026.50	120,358.50	74,526.79	61.76%
CIP BUDGET TOTAL	District Office Dona Fayment	363	\$9,421,959.00		\$127,300.95	\$1,391,326.58	\$8,030,632.42	14.77%
TOTAL BUDGET			\$13,411,459.00	\$0.00	\$363,679.70	\$2,196,732.58	\$11,214,726.42	16.38%
TOTAL DODGET			313,711,433.00	30.00	7303,073.70	72,130,732.38	711,214,720.42	10.38%

#### Current Fund Balances:

Current Fund Balances.						
Fund:	Beginning Fund Balance @ 12/31/19	Fund Transfers	Year to date Revenue	Current Month Expenses	Year to Date Expense	Fund Balance @ 04/30/20
101 - General Fund	\$4,633,167.33	-	71,118.14	236,378.75	805,406.00	3,898,879.47
516 - CIP Project Repair & Maintenance	1,160,359.00	-	-	29,438.97	696,852.61	463,506.39
518 - Targeted Retrofit Projects	(52,309.00)	-	-	46,302.35	125,624.23	(177,933.23)
520 - Flood Damage Reduction Fund	2,565,820.00	-	15,231.35	30,322.74	138,152.41	2,442,898.94
526 - Debt Services-96-97 Beltline/MM/Beltline-Battle Creek Tunnel Repair	1,252,348.00	-	-	-	276,886.63	975,461.37
528/529 - Stewardship Grant Program Fund	711,696.00	-	-	19,208.39	31,093.99	680,602.01
531 - Impervious Surface Volume Reduction Opportunity	1,484,215.00	-	-	-	-	1,484,215.00
553 - Wakefield Park Project	268,349.00	-	-	2,028.50	2,358.50	265,990.50
580 - Contingency Fund	891,682.00	-	-	-	-	891,682.00
585 - Certificates of Participation	130,460.00	-	335.47	-	120,358.21	10,437.26
Total District Fund Balance	\$13,045,787.33	\$0.00	\$ 86,684.96	\$ 363,679.70	\$2,196,732.58	\$10,935,739.71

#### Ramsey Washington Metro Watershed Dist. Check Register For the Period From Apr 1, 2020 to Apr 30, 2020

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
70275	04/01/20	1 001	10.02.00	D 1 E1 1	C. 11' C. A.D.	6200.00
70275 EFT	04/01/20 04/08/20	edm001 hea002	19-03 CS May 2020	Randee Edmundson HealthPartners	Stewardship Grant Program Employee Benefits	\$200.00 11,421.64
EFT	04/08/20	nsp001	May 2020 Apr 2020	Xcel Energy	Project Operations/Utilities	2,017.63
EFT	04/20/20	voy001	Apr 2020	US Bank Voyager Fleet Sys.	Vehicle Expense	211.85
71418V	04/28/20	edm001	19-03 CS	Randee Edmundson	Stewardship Grant Program	(200.00)
71442	04/29/20	ada002	3104821/31116636	Adam's Pest Control, Inc.	Utilities/Bldg. Contracts	158.00
71443	04/29/20	ah1001	Apr 2020	Paige Ahlborg	Employee Reimbursement	291.00
71444	04/29/20	att002	28756653401X04252020		Water QM Staff	80.45
71445	04/29/20	aws001	S1335957-040120	AWS Service Center	Utilities/Bldg. Contracts	396.01
71446	04/29/20	bar001	3/14/20-4/17/20	Barr Engineering	March/April Engineering Expense	150,278.32
71447	04/29/20	bar004	Apr 2020	Deborah Barnes	Employee Reimbursement	45.33
71448	04/29/20	bar010	WF20	Geri Barber	Events	100.00
71449	04/29/20	ben002	94236	Benefit Extras, Inc.	Employee Benefits	90.00
71450	04/29/20	bfg001	1523090-00	BFG Supply Co., LLC	Educational Program	20.80
71451 71452	04/29/20	bro001	13869641-00	Brock White Company LLC Allstream	Natural Resources Project Water QM Staff	478.38 65.01
71452	04/29/20 04/29/20	cad001 car007	16788862 RWMWD 04/21/20	Carp Solutions, LLC	Natural Resources Project	1,625.00
71454	04/29/20	cit007	007734-000	City of Little Canada	Utilities/Bldg. Contracts	110.72
71455	04/29/20	cit011	228853	City of Roseville	IT/Website/Software	4,163.00
71456	04/29/20	com004	04/16/20	Comcast	Utilities/Bldg. Contracts	144.52
71457	04/29/20	don001	Mar/Apr 2020	Matthew Doneux	Employee Reimbursement	467.18
71458	04/29/20	esr002	93813512	Environmental Systems Research Institut	GIS System Maintenance	707.00
71459	04/29/20	fit002	Apr 2020	Mary Fitzgerald	Employee Reimbursement	169.66
71460	04/29/20	gal001	04/22/20	Galowitz Olson, PLLC	April Legal Fees	6,328.00
71461	04/29/20	gil001	191287	Gilbert Mechanical Contractors, Inc.	Utilities/Bldg. Contracts	142.12
71462	04/29/20	gla001	Apr 2020	Glacial Ridge Drilling, Inc.	Stewardship Grant Program	1,110.00
71463	04/29/20	hej001	318697	Hejny Rental	Natural Resources Project	266.06
71464	04/29/20	inn002	IM2916393	Innovative Office Solutions LLC	Office Supplies	175.39
71465	04/29/20	int001	W20030507	Office of MN, IT Services	Telephone Expense	57.48
71466	04/29/20	kha001	WF20	Hussein Khatib	Events	100.00
71467	04/29/20	kub001	Mar/Apr 2020	Kyle W. Kubitza	Employee Reimbursement	337.53
71468	04/29/20	lea002	04/14/20	League of Minnesota Cities	Insurance Expense	33,918.00
71469	04/29/20	mau001	Apr 2020	Ashly Maus	Employee Reimbursement	154.10
71470 71471	04/29/20 04/29/20	mbc001 mel001	1073 Mar/Apr 2020	MB Consulting Michelle L. Melser	Events Employee Reimbursement	5,043.47 377.44
71471	04/29/20	min008	23231/23146	Minnesota Native Landscapes, Inc.	Construction ImpMaint. & Repair	564.50
71473	04/29/20	nar001	IN00132009	Nardini Fire Equipment	Utilities/Bldg. Contracts	409.40
71474	04/29/20	ncp001	930700052020	NCPERS Group Life Ins.	Employee Benefits	16.00
71475	04/29/20	nsp001	681681750	Xcel Energy	Project Operations/Utilities	483.37
71476	04/29/20	out001	20-031/20-024	Outdoor Lab Landscape Design, Inc.	Construction ImpMaint. & Repair	9,940.00
71477	04/29/20	pho001	19-03 CS	Aloun Phoulavan	Stewardship Grant Program	187.39
71478	04/29/20	pre003	317451701	Premium Waters, Inc.	Utilities/Bldg. Contracts	24.00
71479	04/29/20	qwe001	04/10/20	CenturyLink	Project Operations	464.28
71480	04/29/20	ram002	PRK-001740	Ramsey County	Stewardship Grant Program	11,808.00
71481	04/29/20	red002	150452440	Redpath & Company, Ltd	March Accounting Services	2,236.59
71482	04/29/20	reg002	0340028199	Regents of the University of Minnesota	Research Projects	9,428.00
71483	04/29/20	sch009	24912	Schlomka Services, LLC	Project Operations	3,580.00
71484 71485	04/29/20 04/29/20	sim001 sod001	Apr 2020 Apr 2020	Emily Simmons Nicole Soderholm	Employee Reimbursement Employee Reimbursement	186.88 53.23
71486	04/29/20	stu001	2019348	Studio Lola	Events	276.25
71487	04/29/20	tes001	53310597-IN	The Tessman Company	ConstrMaint./Natural Resources	92.44
71488	04/29/20	thr004	18-05	3M Company	Dev. Escrow-General	56,500.00
71489	04/29/20	thr004	17-07	3M Company	Dev. Escrow-General	31,500.00
71490	04/29/20	thr004	16-23	3M Company	Dev. Escrow-General	16,000.00
71491	04/29/20	thr004	16-27	3M Company	Dev. Escrow-General	36,000.00
71492	04/29/20	tim002	M25581	Timesaver Off-Site Secretarial, Inc.	Committee/Board Meeting Expense	219.00
71493	04/29/20	tro002	20-04	Cathy Troendle	Educational Program	37.50
71494	04/29/20	usb002	Apr 2020	U.S. Bank	April Credit Card Expense	4,476.63
71495	04/29/20	usb005	410899264	US Bank Equipment Finance	Printing Expense	294.00
71496	04/29/20	van001	71755	Vanguard Cleaning Systems of Minnesota	Utilities/Bldg. Contracts	1,100.00
71497	04/29/20	van003	Apr 2020	Erika Van Krevelen	Employee Reimbursement	139.15
71498 71499	04/29/20 04/29/20	voy001 was002	869293423017 4806/4833	US Bank Voyager Fleet Sys. Washington Conservation District	Vehicle Expense Outside Support/Stewardship	73.13 4,650.00
Total		45002	.000, 1000	g 2 - 130. Nation District		\$411,790.83

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#### Ramsey Washington Metro Watershed Dist. Check Register For the Period From Apr 1, 2020 to Apr 30, 2020

Check #	Date	Payee ID	Invoice #	Payee	Description	Amount
EFT	03/06/20	myp001	03/06/20	March 3rd Payroll Fees	4110-101-000	69.05
EFT	03/20/20	myp001	03/20/20	March 20th Payroll Fees	4110-101-000	71.00
Dir.Dep.	04/03/20		Payroll Expense-Net	April 3rd Payroll	4010-101-000	25,402.16
EFT	04/03/20	int002	Internal Rev.Serv.	April 3rd Federal Withholding	2001-101-000	8,951.90
EFT	04/03/20	mnd001	MN Revenue	April 3rd State Withholding	2003-101-000	1,637.56
EFT	04/03/20	per001	PERA	April 3rd PERA	2011-101-000	5,699.22
EFT	04/03/20	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	3,029.00
EFT	04/03/20	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	425.00
Dir.Dep.	04/17/20		Payroll Expense-Net	April 17th Payroll	4010-101-000	25,080.94
EFT	04/17/20	int002	Internal Rev.Serv.	April 17th Federal Withholding	2001-101-000	8,871.41
EFT	04/17/20	mnd001	MN Revenue	April 17th State Withholding	2003-101-000	1,628.04
EFT	04/17/20	per001	PERA	April 17thth PERA	2011-101-000	5,642.32
EFT	04/17/20	emp002	Empower Retirement	Employee Def.Comp. Contributions	2016-101-000	3,029.00
EFT	04/17/20	emp002	Empower Retirement	Employee IRA Contributions	2018-101-000	425.00
					Payroll/Benefits	\$89,961.60
Total					Accounts Payable/Payroll/Benefits:	\$501,752.43

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Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Deta
4/01/20	70275	edm001	Randee Edmundson	4682-529-000	Stewardship Grant Fund	\$200.00	
4/08/20	EFT	hea002	HealthPartners		Employee Benefits-General	11,421.64	
4/10/20	EFT	nsp001	Xcel Energy	10.10 101 000	Employee Benefits General	2,017.63	
1/10/20	LI I	пъроот	Acci Elicigy	4650-101-000	Project Operations-General	2,017.03	385.3
					Utilities/Bldg. Contracts		989.
					Project Operations-Flood		642.
4/20/20	EFT	voy001	US Bank Voyager Fleet System	4830-101-000		211.85	0.2.
4/28/20	71418V	edm001	Randee Edmundson		Stewardship Grant Fund	(200.00)	
1/29/20	71442	ada002	Adam's Pest Control		Utilities/Bldg. Contracts	158.00	
/29/20	71443	ahl001	Paige Ahlborg	13.12.101.000	Stilles Blag. Solidates	291.00	
	,	4111001	Tunge Timeong	4020-101-000	Employee Expenses-General	2,1100	51.
					Employee Benefits-General		240.
/29/20	71444	att002	AT & T Mobility -ROC		Water QM Staff-General	80.45	210.
/29/20	71445	aws001	AWS Service Center		Utilities/Bldg. Contracts	396.01	
/29/20	71446	bar001	Barr Engineering	13.12.101.000	Stilles Blag. Solidates	150,278.32	
25.20	,1	041001	Buil Engineering	4121-101-000	Engineering Admin-General Fund	150,270.52	6,946
					Engineering-Review		3,798
					Project Feasability-General		154
					Project Feasability-General		2,740
					Project Feasability-General		882
					Project Feasability-General		2,127
					Project Feasability-General		490
					Project Feasability-General		490
					Project Feasability-General		6,042
					Project Feasability-General		706
					Water QM-Engineering		2,053
					Water QM-Engineering		365
					Water QM-Engineering		5,815
					Water QM-Engineering		4,627
					Water QM-Engineering		251
					Water QM-Engineering		3,124
					Engineering-Permit Review		3,083
					SLMP/TMDL Studies		114
					SLMP/TMDL Studies		3,472
					SLMP/TMDL Studies		467
					SLMP/TMDL Studies		227
					SLMP/TMDL Studies		1,585
					Research Projects-General		262
					Research Projects-General		1,120
					Research Projects-General		2,000
					Project Operations-General		196
					Engineering-School/Commer Retrofit		39,890
					Engineering-School/Commer Retrofit		210
					Engineering-School/Commer Retrofit		2,702
					Engineering-Wakefield		2,028
					Engineering-School/Commer Retrofit		275
					Engineering-School/Commer Retrofit		1,912.
					Engineering-School/Commer Retrofit		1,312

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4682-529-000	Stewardship Grant Fund		3,128.00
					Engineering-Flood Damage		5,731.20
					Engineering-Flood Damage		6,978.50
					Engineering-Flood Damage		14,079.00
					Engineering-Maint. & Repair		2,019.00
					Engineering-Maint. & Repair		4,973.35
					Engineering-Maint. & Repair		11,895.90
04/29/20	71447	bar004	Deborah Barnes		8 8 1	45.33	,
				4040-101-000	Employee Benefits-General		40.00
					Employee Expenses-General		5.33
04/29/20	71448	bar010	Geri Barber	4372-101-000		100.00	
04/29/20	71449	ben002	Benefit Extras, Inc.		Employee Benefits-General	90.00	
04/29/20	71450	bfg001	BFG Supply Co., LLC		Educational Program-General	20.80	
04/29/20	71451	bro001	Brock White Company, LLC		Natural Resources Project-General	478.38	
04/29/20	71452	cad001	Allstream		Water QM Staff-General	65.01	
04/29/20	71453	car007	Carp Solutions, LLC		Natural Resources Project-General	1,625.00	
04/29/20	71454	cit001	City of Little Canada		Utilities/Bldg. Contracts	110.72	
04/29/20	71455	cit011	City of Roseville		IT/Website/Software	4,163.00	
04/29/20	71456	com004	Comcast		Utilities/Bldg. Contracts	144.52	
04/29/20	71457	don001	Matthew Doneux	13 12 101 000	Othices/Bidg. Conducts	467.18	
01/25/20	/115/	donoor	Matthew Bollean	4040-101-000	Employee Benefits-General	107.10	122.61
					Employee Expenses-General		277.15
					Natural Resources Project-General		67.42
04/29/20	71458	fit001	Environmental Systems Research Institute		GIS System Maint. & Equipment	707.00	07.42
04/29/20	71459	fit002	Mary Fitzgerald	41/0-101-000	GIS System Maint. & Equipment	169.66	
04/29/20	/1439	111002	iviary i negerato	4040 101 000	Employee Benefits-General	109.00	40.00
					Employee Expenses-General		129.66
04/29/20	71460	gal001	Galowitz Olson, PLLC	4020-101-000	Employee Expenses-General	6,328.00	129.00
04/29/20	/1400	galooi	Galowitz Oisoli, I EEC	4121 101 000	Attorney-General	0,328.00	3,553.00
					Attorney-Flood Damage		2,775.00
04/29/20	71461	gil001	Gilbert Mechanial Contractors, Inc.		Utilities/Bldg. Contracts	142.12	2,773.00
04/29/20	71462	gla001	Glacial Ridge Drilling, Inc.		Stewardship Grant Fund	1,110.00	
04/29/20	71463	hej001	Hejny Rental		Natural Resources Project-General	266.06	
04/29/20	71464	inn001	Innovative Office Solutions, LLC	4070-101-000	Natural Resources 1 Toject-General	175.39	
04/29/20	/1404	11111001	illiovative Office Solutions, LLC	4320 101 000	Office Supplies-General	173.39	162.25
					Educational Program-General		13.14
04/29/20	71465	int001	Office of MN, IT Services		Telephone-General	57.48	13.14
04/29/20	71465	kha001	Hussein Khatib	4372-101-000		100.00	
04/29/20	71467	kub001	Kyle W. Kubitza		Employee Expenses-General	337.53	
04/29/20	71467	lea002	,		Insurance-General	33,918.00	
	71468	mau001	League of Minnesota Cities Ashly Maus		Employee Expenses-General	154.10	
04/29/20	71469	mbc001	MB Consulting			5,043.47	
04/29/20	71470	mel001	Michelle L. Melser	4372-101-000	Events	3,043.47	
04/29/20	/14/1	meiooi	Michelle L. Meiser	4242 101 000	TETE ON CO.	3//.44	225.00
					Utilities/Bldg. Contracts		325.00
04/20/20	71.470		Minnest Nation Londonnes Lon		Employee Expenses-General	E(4.50	52.44
04/29/20	71472	min008	Minnesota Native Landscapes, Inc.		Construction ImpMaint. & Repair	564.50	
04/29/20	71473	nar001	Nardini Fire Equipment		Utilities/Bldg. Contracts	409.40	
04/29/20	71474	ncp001	NCPERS Group Life Ins.	2015-101-000	Employee Health-General	16.00	
04/29/20	71475	nsp001	Xcel Energy	4650 500 000	Di to di El I	483.37	114 = 2
					Project Operations-Flood		116.59
					Project Operations-General		203.53
				4342-101-000	Utilities/Bldg. Contracts		150.18

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
				4650 101 000	Project Operations-General		13.07
04/29/20	71476	out001	Outdoor Lab Landscape Design, Inc.		Construction ImpMaint. & Repair	9,940.00	13.07
04/29/20	71477	pho001	Aloun Phoulavan		Stewardship Grant Fund	187.39	
04/29/20	71478	pre003	Premium Waters, Inc.		Utilities/Bldg. Contracts	24.00	
04/29/20	71479	gwe001	CenturyLink		Project Operations-General	464.28	
04/29/20	71480	ram002	Ramsey County		Stewardship Grant Fund	11,808.00	
04/29/20	71481	red002	Redpath & Company, Ltd.		Auditor/Accounting	2,236.59	
04/29/20	71482	reg002	Regents of the University of Minnesota		Research Projects-General	9,428.00	
04/29/20	71483	sch009	Schlmoka Services, LLC		Project Operations-General	3,580.00	
04/29/20	71484	sim001	Emily Simmons		Employee Expenses-General	186.88	
04/29/20	71485	sod001	Nicole Soderholm	.020 101 000	Employee Empenses General	53.23	
	,			4040-101-000	Employee Benefits-General		40.00
					Employee Expenses-General		13.23
04/29/20	71486	stu001	Studio Lola	4372-101-000		276.25	
04/29/20	71487	tes001	The Tessman Company			92.44	
	, ,			4630-516-000	Construction ImpMaint. & Repair	,	46.22
					Natural Resources Project-General		46.22
04/29/20	71488	thr004	3M Company		Dev.Escrow-General	56,500.00	
04/29/20	71489	thr004	3M Company		Dev.Escrow-General	31,500.00	
04/29/20	71490	thr004	3M Company		Dev.Escrow-General	16,000.00	
04/29/20	71491	thr004	3M Company	2024-101-000	Dev.Escrow-General	36,000.00	
04/29/20	71492	tim002	Timesaver Off-Site Secretarial, Inc.	4365-101-000	Committee/Board Meeting Expense	219.00	
04/29/20	71493	tro002	Cathy Troendle		Educational Program-General	37.50	
04/29/20	71494	usb002	U.S. Bancorp		6	4,476.63	
			•	4670-101-000	Natural Resources Project-General		151.98
					Bldg./Site Maintenance		36.81
					Office Supplies-General		28.90
					IT/Website/Software		89.75
				4343-101-000	Bldg./Site Maintenance		108.32
					Office Supplies-General		34.26
				4697-101-000	Health & Safety Program		48.75
				4320-101-000	Office Supplies-General		39.57
				4320-101-000	Office Supplies-General		18.24
				4530-101-000	Water QM Staff-General		99.99
				4703-101-000	Office Equipment		479.10
				4325-101-000	IT/Website/Software		160.96
				4670-101-000	Natural Resources Project-General		1,680.00
				4682-529-000	Stewardship Grant Fund		1,500.00
04/29/20	71495	usb005	US Bank Equipment Finance	4335-101-000	Printing-General	294.00	
04/29/20	71496	van001	Vanguard Cleaning Systems of Minnesota	4343-101-000	Utilities/Bldg. Contracts	1,100.00	
04/29/20	71497	van003	Erika Van Krevelen	4020-101-000	Employee Expenses-General	139.15	
04/29/20	71498	voy001	US Bank Voyager Fleet System	4830-101-000	Vehicle Fuel	73.13	
04/29/20	71499	was002				4,650.00	
				4683-101-000	Outside Program Support		3,175.00
				4682-529-000	Stewardship Grant Fund		1,475.00
							_
			A			0411 500 03	
			Accounts Payable Total:			\$411,790.83	=

Date	Check #	Vendor ID	Name	Account ID	Account Description	Amount	Check Detail
EFT	03/06/20	myp001	Payroll Fees		March 3rd Payroll Fees	69.05	
EFT	03/20/20	myp001	Payroll Fees	4110-101-000	March 20th Payroll Fees	71.00	
D:- D	04/02/20		Describ Francisco Net	4010 101 000	Augil 2nd Daniell	25 402 17	
Dir.Dep.	04/03/20		Payroll Expense-Net		April 3rd Payroll	25,402.16	
EFT	04/03/20	int002	Internal Revenue Service		April 3rd Federal Withholding	8,951.90	
EFT	04/03/20	mnd001	MN Revenue	2003-101-000	April 3rd State Withholding	1,637.56	
EFT	04/03/20	per001	PERA	2011-101-000	April 3rd PERA	5,699.22	
EFT	04/03/20	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	3,029.00	
EFT	04/03/20	emp002	Empower Retirement	2018-101-000	Employee IRA Contributions	425.00	
Dir.Dep.	04/17/20		Payroll Expense-Net	4010-101-000	April 17th Payroll	25,080.94	
EFT	04/17/20	int002	Internal Revenue Service	2001-101-000	April 17th Federal Withholding	8,871.41	
EFT	04/17/20	mnd001	MN Revenue	2003-101-000	April 17th State Withholding	1,628.04	
EFT	04/17/20	per001	PERA	2011-101-000	April 17th PERA	5,642.32	
EFT	04/17/20	emp002	Empower Retirement	2016-101-000	Employee Def.Comp. Contributions	3,029.00	
EFT	04/17/20	emp002	Empower Retirement		Employee IRA Contributions	425.00	
						200 044 60	
			D 1170 61			\$89,961.60	1
			Payroll/Benefits			9501 752 42	
			TOTAL:			\$501,752.43	1



# Summary of Professional Engineering Services During the Period March 14, 2020 through April 17, 2020

	Total Engineering Budget (2020)	Total Fees to Date (2020)	Budget Balance (2020)	Fees During Period	District Accounting Code	Plan Implementation Task Number
Engineering Administration						
General Engineering Administration	\$76,000.00	\$25,212.90	\$50,787.10	\$6,946.00	4121-101	DW-13
RWMWD Health and Safety/ERTK Program  Educational Program/Educational Forum Assistance	\$2,000.00 \$20,000.00	\$0.00  \$1,109.50	\$2,000.00 \$18.890.50		4697-101  4129-101	DW-13  DW-11
		Ψ1,100.00				
Engineering Review Engineering Review	\$55,000.00	\$11,155.00	\$43,845.00	\$3,798.00	4123-101	DW-13
<u>-</u>						
Project Feasibility Studies Interim emergency response plan funds for top priority District flooding areas	\$45,000.00	\$154.00	\$44,846.00	\$154.00	4129-101	DW-19
Beltline Resiliency and Phalen Chain Water Level Management Study	\$217,000.00	\$169,047.50	\$47,952.50	\$2,740.50	4129-101	BELT-3
FEMA Flood Mapping Update  Modeling of 500-year event Atlas 14 District-wide (Climate Change Scenario) and	\$109,720.00	\$49,223.50	\$60,496.50	\$882.00	4129-101	DW-9
Generation of Flood Maps for Future Outreach Efforts	\$70,000.00	\$47,182.00 	\$22,818.00		4129-101	DW-9
Hillcrest Golf Course (multi-use) Gold BRT planning	\$25,000.00 \$20,000.00	\$5,966.00 \$0.00	\$19,034.00 \$20,000.00		4129-101 4129-101	DW-6 DW-6
Owasso Basin by-pass pipeline feasibility study/prelim design (Atlas 14 #1 priority area)	\$125,000.00	\$3,860.50	\$121,139.50	\$2,127.50	4129-101	 GC-3, BELT-3
villow Creek 11000 damage reduction reasibility study (Atlas 14 - #2 phonty 11000ing area)	\$50,000.00	\$1,117.00	\$48,883.00	\$490.00	4129-101	 DW-9, BELT-3
Ames Lake area flood damage reduction feasibility study (Atlas 14 #3 priority area)	\$50,000.00	\$1,117.00	\$48,883.00	\$490.00	4129-101	 DW-9, BELT-3
West Vadnais Lake to South of I-694 Conveyance Feasibility Study	\$35,000.00	\$7,516.73	\$27,483.27	\$6,042.73	4129-101	 DW-9, BELT-3
Battle Creek PFAS (monitoring, source ID, meetings, communications)	\$25,000.00	\$1,062.50	\$23,937.50		4129-101	DW-10
694/494/94 WQ treatment feasibility study	\$30,000.00	\$0.00	\$30,000.00		4129-101	BCL-3
Subwatershed feasiblity studies for At-Risk creeks (Fish Creek and Gervais Creek)  Battle Creek Lower Ravine Restoration Feasibility Study	\$40,000.00 \$25,000.00	\$938.50  \$0.00	\$39,061.50 \$25,000.00	\$706.50	4129-101  4129-101	DW-1, DW-2  BC-3
Wetland Restoration Site Search	\$25,000.00	\$29,059.60	-\$4,059.60		4129-101	DW-8
Contingency*	\$25,000.00	\$0.00	\$25,000.00		4129-101	
GIS Maintenance						
GIS Maintenance	\$5,000.00	\$0.00	\$5,000.00		4170-101	DW-13
Monitoring Water Quality/Project Monitoring	<b>*</b> * * * * * * * * * * * * * * * * * *	***	<b>*</b> 40.000		4500 404	5111.0
Lake Water Quality Monitoring (Misc QA/QC) Special Project BMP Monitoring and annual report development	\$10,000.00 \$25,000.00	\$0.00 \$2,585.50	\$10,000.00 \$22,414.50	\$2,053.00	4520-101 4520-101	DW-2  DW-12
Auto lake monitoring system for Grass Lake	\$20,000.00	\$20,281.61	-\$281.61	\$365.00	4520-101	DW-18
Auto lake monitoring system for Owasso Lake	\$20,000.00	\$16,016.98	\$3,983.02	\$5,815.38	4520-101	DW-18
Auto lake monitoring system for Phalen Lake  Auto lake monitoring system for Snail Lake	\$20,000.00 \$20,000.00	\$13,717.53  \$19,003.49	\$6,282.47  \$996.51	\$4,627.03  \$251.50	4520-101  4520-101	DW-18  DW-18
Auto lake monitoring system for Wabasso Lake	\$20,000.00	\$17,658.40	\$2,341.60	\$3,124.88	4520-101	DW-18
Permit Processing, Inspection and Enforcement						
Permit Application Inspection and Enforcement Permit Application Review	\$10,000.00 \$55,000.00	\$0.00 \$18,980.00	\$10,000.00 \$36,020.00	\$3,083.50	4122-101 4124-101	DW-7
		ψ10,900.00	φ30,020.00	ψο,υσο.ου	4124-101	
Lake Studies/WRPPs/TMDL Reports 2020 Grant Applications	\$20,000.00	\$133.00	\$19,867.00		4661-101	DW-13
Tanners Flood Response Tool Model Update	\$3,000.00	\$378.00	\$2,622.00	\$114.00	4661-101	TaL-1
Internal load management - Sediment cores and macrophyte surveys for Wakefield, Bennett, Kohlman Lake, Round Lake (LC), Beaver Lake, Battle Creek Lake, Lake	\$50,000.00	\$3,472.50	\$46,527.50	\$3,472.50	4661-101	KL-2, GC-2, WL-3, BL- 3, BCL-2, LE-4, BeL-3,
Owasso, Lake Emily, Twin Lake			ψ.ιο,ο2ου			LO-5, LE-4
Makefield Lake internal land modeling (and import and our heaf)	\$30,000.00	\$467.00	\$29,533.00	\$467.00	4661-101	WL-3, WL-4
Wakefield Lake internal load modeling (sediment and curlyleaf) WMP Updates - Including Implementation Plan Updates	\$10,000.00	\$1,247.50	\$8,752.50	\$227.50	4661-101	DW-13
Prioritization of water quality projects from subwatershed feasibility studies	\$15,000.00	\$1,614.00	\$13,386.00	\$1,585.50	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	\$262.50	\$11,737.50	\$262.50	4695-101	DW-12
Kohlman Permeable Weir Test System - Implement Monitoring Plan Phalen Chain of Lakes Changes in Water Quality	\$15,000.00 \$5,000.00	\$1,120.00 \$2,000.00	\$13,880.00 \$3,000.00	\$1,120.00 \$2,000.00	4695-101 4695-101	DW-12 DW-12
		φ2,000.00	\$3,000.00	φ2,000.00	4030-101	DVV-12
Project Operations 2020 Tanners Alum Facility Monitoring	\$15,000.00	\$294.00	\$14,706.00	\$196.00	4650-101	TaL-3
Beltline Outlet and Keller Channel Operations Plans	\$30,000.00	\$0.00	\$30,000.00	Ψ100.00	4650-101	DW-9, BELT-3
Capital Improvements						
Target and Motel 6  Owasso County Park Stormwater Master Plan and Detailed Design: Phase 1 and Phase	\$289,400.00	\$196,203.33	\$93,196.67	\$39,890.35	4128-518	DW-6
2	\$20,000.00	\$210.00	\$19,790.00	\$210.00	4128-518	DW-6
Aldrich Arena (soils and plantings) Wakefield Park/Frost Avenue Stormwater Project	\$25,000.00 \$17,500.00	\$3,156.00 \$2,358.50	\$21,844.00 \$15,141.50	\$2,702.00 \$2,028.50	4128-518 4128-553	DW-6, WL-1 DW-6, WL-1
THE TENTON OF THE PROPERTY OF		\$7,249.50	\$15,141.50	\$2,026.30	4128-518	DW-6, WL-1
Commercial Sites Retrofit Projects 2020 (Targeted Retrofits) - Target/Motel 6/Roys club	\$45,000.00	J	, , . J J . J J		<del></del>	
Commercial Sites Retrofit Projects 2020 (Targeted Retrofits) - Target/Motel 6/Boys club School Sites Retrofit Projects 2020 (Targeted Retrofits)	\$45,000.00 \$45,000.00	\$4,182.50	\$40,817.50	\$1,912.50	4128-518	DW-6
			\$40,817.50 \$40,256.50	\$1,912.50 \$1,312.50	4128-518 4128-518	DW-6 DW-6
School Sites Retrofit Projects 2020 (Targeted Retrofits)  Church Sites Retrofit Projects 2020 (Targeted Retrofit)  BMP Incentive Fund: Gen'l BMP Design Assistance and Review (cases where Dist is	\$45,000.00	\$4,182.50				
School Sites Retrofit Projects 2020 (Targeted Retrofits) Church Sites Retrofit Projects 2020 (Targeted Retrofit)	\$45,000.00 \$45,000.00	\$4,182.50 \$4,743.50	\$40,256.50	\$1,312.50	4128-518	DW-6
School Sites Retrofit Projects 2020 (Targeted Retrofits)  Church Sites Retrofit Projects 2020 (Targeted Retrofit)  BMP Incentive Fund: Gen'l BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church).  Lowering West Vadnais Lake Outlet  Wetland Restoration (Cottage Place or other)	\$45,000.00 \$45,000.00 \$75,000.00 \$50,000.00 \$100,000.00	\$4,182.50 \$4,743.50 \$15,013.60 \$39,779.45 \$0.00	\$40,256.50 \$59,986.40 \$10,220.55 \$100,000.00	\$1,312.50 \$3,128.00 \$5,731.20	4128-518 4682-529 4128-520 4128-529	DW-6 DW-6 DW-9 DW-1, DW-8
School Sites Retrofit Projects 2020 (Targeted Retrofits)  Church Sites Retrofit Projects 2020 (Targeted Retrofit)  BMP Incentive Fund: Gen'l BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church).  Lowering West Vadnais Lake Outlet  Wetland Restoration (Cottage Place or other)  Keller Channel Weir & Phalen Outet Resiliency Modifications	\$45,000.00 \$45,000.00 \$75,000.00 \$50,000.00 \$100,000.00 \$250,000.00	\$4,182.50 \$4,743.50 \$15,013.60 \$39,779.45 \$0.00 \$6,978.50	\$40,256.50 \$59,986.40 \$10,220.55 \$100,000.00 \$243,021.50	\$1,312.50 \$3,128.00 \$5,731.20 \$6,978.50	4128-518 4682-529 4128-520 4128-529 4128-520	DW-6  DW-9  DW-1, DW-8  DW-9, BELT-3
School Sites Retrofit Projects 2020 (Targeted Retrofits)  Church Sites Retrofit Projects 2020 (Targeted Retrofit)  BMP Incentive Fund: Gen'l BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church).  Lowering West Vadnais Lake Outlet  Wetland Restoration (Cottage Place or other)	\$45,000.00 \$45,000.00 \$75,000.00 \$50,000.00 \$100,000.00	\$4,182.50 \$4,743.50 \$15,013.60 \$39,779.45 \$0.00	\$40,256.50 \$59,986.40 \$10,220.55 \$100,000.00	\$1,312.50 \$3,128.00 \$5,731.20	4128-518 4682-529 4128-520 4128-529	DW-6 DW-6 DW-9 DW-1, DW-8
School Sites Retrofit Projects 2020 (Targeted Retrofits)  Church Sites Retrofit Projects 2020 (Targeted Retrofit)  BMP Incentive Fund: Gen'l BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church).  Lowering West Vadnais Lake Outlet  Wetland Restoration (Cottage Place or other)  Keller Channel Weir & Phalen Outet Resiliency Modifications  Twin Lake Outlet Easement Acquisition, Permitting, Construction Plans  West Vadnais Lake Emergency Overflow - Twin Lake By-Pass (permanent structures)	\$45,000.00 \$45,000.00 \$75,000.00 \$50,000.00 \$100,000.00 \$250,000.00 \$65,000.00	\$4,182.50 \$4,743.50 \$15,013.60 \$39,779.45 \$0.00 \$6,978.50 \$47,706.93	\$40,256.50 \$59,986.40 \$10,220.55 \$100,000.00 \$243,021.50 \$17,293.07	\$1,312.50 \$3,128.00 \$5,731.20 \$6,978.50	4128-518 4682-529 4128-520 4128-529 4128-520 4128-520	DW-6  DW-9  DW-1, DW-8  DW-9, BELT-3  DW-9
School Sites Retrofit Projects 2020 (Targeted Retrofits)  Church Sites Retrofit Projects 2020 (Targeted Retrofit)  BMP Incentive Fund: Gen'l BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church).  Lowering West Vadnais Lake Outlet  Wetland Restoration (Cottage Place or other)  Keller Channel Weir & Phalen Outet Resiliency Modifications  Twin Lake Outlet Easement Acquisition, Permitting, Construction Plans	\$45,000.00 \$45,000.00 \$75,000.00 \$50,000.00 \$100,000.00 \$250,000.00 \$65,000.00	\$4,182.50 \$4,743.50 \$15,013.60 \$39,779.45 \$0.00 \$6,978.50 \$47,706.93	\$40,256.50 \$59,986.40 \$10,220.55 \$100,000.00 \$243,021.50 \$17,293.07	\$1,312.50 \$3,128.00 \$5,731.20 \$6,978.50	4128-518 4682-529 4128-520 4128-529 4128-520 4128-520	DW-6  DW-9  DW-1, DW-8  DW-9, BELT-3  DW-9
School Sites Retrofit Projects 2020 (Targeted Retrofits) Church Sites Retrofit Projects 2020 (Targeted Retrofit)  BMP Incentive Fund: Gen'l BMP Design Assistance and Review (cases where Dist is approached by landowner, or landowner is not commercial, school, church).  Lowering West Vadnais Lake Outlet  Wetland Restoration (Cottage Place or other)  Keller Channel Weir & Phalen Outet Resiliency Modifications  Twin Lake Outlet Easement Acquisition, Permitting, Construction Plans  West Vadnais Lake Emergency Overflow - Twin Lake By-Pass (permanent structures)  CIP Project Repair & Maintenance	\$45,000.00 \$45,000.00 \$75,000.00 \$50,000.00 \$100,000.00 \$250,000.00 \$65,000.00	\$4,182.50 \$4,743.50 \$15,013.60 \$39,779.45 \$0.00 \$6,978.50 \$47,706.93 \$0.00	\$40,256.50 \$59,986.40 \$10,220.55 \$100,000.00 \$243,021.50 \$17,293.07 \$30,000.00	\$1,312.50 \$3,128.00 \$5,731.20 \$6,978.50 \$14,079.00	4128-518 4682-529 4128-520 4128-529 4128-520 4128-520 4128-520	DW-6  DW-9  DW-1, DW-8  DW-9, BELT-3  DW-9  DW-9

TOTAL PAYABLE FOR PERIOD 3/14/20 - 4/17/20

\$150,278.32

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

#### 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 April 22, 2020

File No:

9M

Balance

General Account \$3,553.00

Twin Lakes BP Project \$2,775.00

\$6,328.00

### **Consent Agenda Action Item**

Board Meeting Date:	May 6, 2020	Agenda Item No: <u>3C</u>				
Preparer:	Tina Carstens, Administrator					
Item Description:	Review and Accept the 2019 D	District Annual Financial Audit				
Background: The District is required by law to complete and file an annual audit of the District's financial records. A final audit report is enclosed for your review. The auditor has also prepared an audit management letter that serves as an easier way to understand a summary of the audit. The audit was sent to the State Auditor as well as the Board of Water and Soil Resources.  The audit gives the District a clean opinion. There were no changes to our financial management recommended.						
Applicable District Goal an	d Action Item:					
mission while adhering to i	• •	anner that achieves the District's				
Staff Recommendation: Accept the 2019 Annual Au	dit Report.					
Financial Implications: None.						

#### **Board Action Requested:**

Accept the 2019 Annual Audit Report by motion of the Board.



April 7, 2020

Ms. Tina Carstens, Administrator Ramsey-Washington Metro Watershed District 2665 Noel Drive Little Canada, MN 55117

Dear Tina:

Enclosed is an electronic copy of the Annual Financial Report and the Audit Management Letter for the Ramsey-Washington Metro Watershed District for the year ended December 31, 2019. The State of Minnesota Legal Compliance Report and the Internal Control Letter are included in the Annual Financial Report.

Additional copies have been sent to the State Auditor's Office and to the Board of Water and Soil Resources (via email) to fulfill the reporting requirements of the District. Electronic versions of each report have also been sent to you via email.

Electronic versions of each workpaper we prepared or assisted preparing, as listed below, were emailed to you on April 6, 2020:

- Government-wide workpaper and GASB 34 entries
- Grouping reports, closing journal entries and reclassifying journal entries
- Accrued interest calculation

- Net position lead and fund balance classifications
- GASB 40 Investment footnote

In addition, we provided the GASB 68 (pension) workpapers to you during the meeting on March 5, 2020.

Thank you for the opportunity to be of service. If you or the Board would like to discuss any topics in the Management Letter or the Annual Financial Report, we are available at your convenience.

Sincerely,

REDPATH AND COMPANY, LTD.

Andy Hering, CPA

AH/bab

## RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

#### **AUDIT MANAGEMENT LETTER**

December 31, 2019





To the Honorable Managers of the Ramsey-Washington Metro Watershed District Little Canada, Minnesota

We have completed our audit of the Ramsey-Washington Metro Watershed District (the District) for the year ended December 31, 2019, and have issued our report thereon. In conjunction with that audit, we present this management letter on matters relating to the financial operations of the District. We offer this report as an additional analytical perspective for the Board of Managers in monitoring the financial position and operations of the accounts and funds of the District. This report also contains required communications to those charged with governance.

Several reports are issued in conjunction with the audit. A summary is as follows:

- Opinion on Financial Statements Unmodified (clean) opinion
- Report on Internal Control No internal control findings
- Minnesota Legal Compliance Report No compliance findings

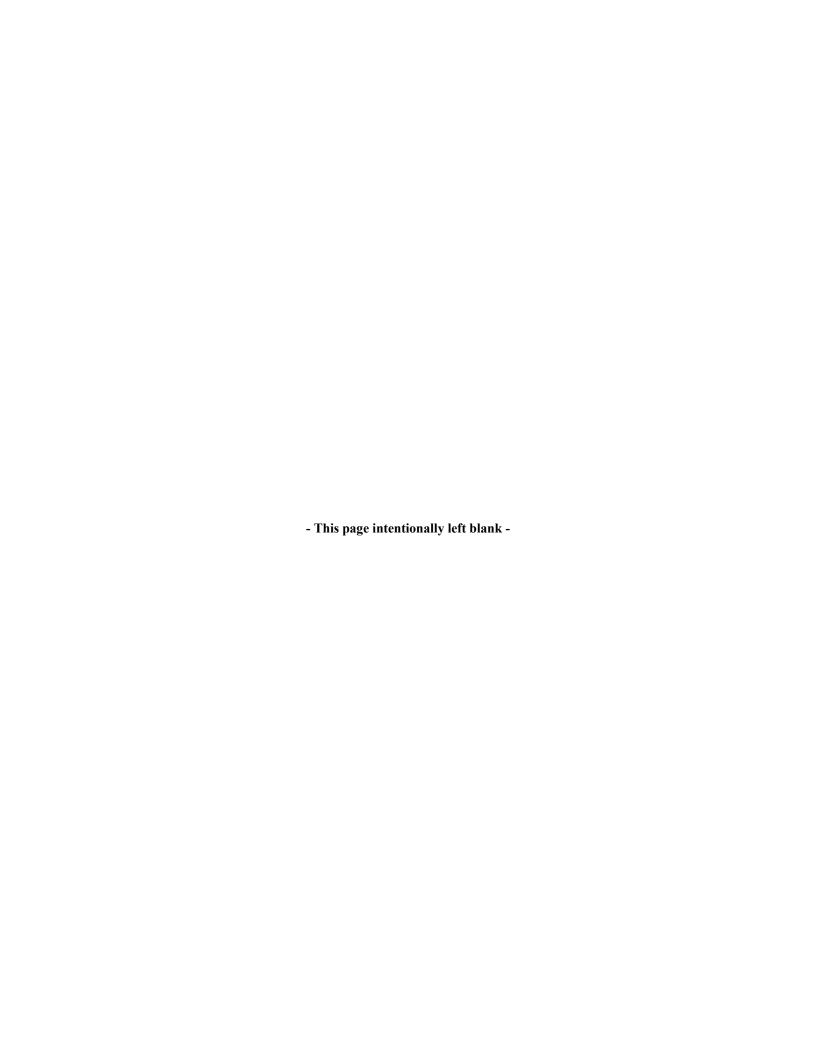
Thank you for the opportunity to serve the District. We are available to discuss this report with you.

REDPATH AND COMPANY, LTD.

Redpath and Company, Ltd.

St. Paul, Minnesota

April 7, 2020



**Audit Management Letter** 

### **Cash and Investments**

Cash and investment balances at December 31, 2019 and 2018 were as follows:

	Decem	Increase	
Fund	2019	2019 2018	
General	\$5,838,073	\$5,257,503	\$580,570
Debt Service Funds:			
General Obligation Bonds	976,693	107,825	868,868
Certificates of Participation	123,186	123,186	-
Capital Project Funds:			
Capital Projects CIB	7,631,880	8,225,040	(593,160
Total	\$14,569,832	\$13,713,554	\$856,278

Investment income totaled \$268,427 for the year ended December 31, 2019 as compared to \$201,240 for the year ended December 31, 2018.

## **Taxes Receivable**

Taxes receivable at December 31, 2019 and 2018 consisted of the following:

		Increase (Decrease)	
Delinquent Due from County	\$120,160 84,880	\$84,232 94,550	\$35,928 (9,670)
Total	\$205,040	\$178,782	\$26,258

Audit Management Letter

Delinquent taxes receivable at December 31, 2019 represent the balance of unpaid property taxes levied for collection in 2010 through 2019. The uncollected portion of property taxes has been classified as unavailable revenue and is not part of the fund balance at the end of the current fiscal year. Accounting standards related to revenue recognition for governments require revenue to be both measurable and available.

Due from County consists of current and delinquent taxes collected by the County but not remitted to the District as of December 31, 2019. These amounts were remitted to the District in January 2020.

The District's overall property tax collection rate was 98.5% for the year ended December 31, 2019. The following table details the District's 2019 levy and collections:

	Ramsey &
	Washington
	Counties
Total levy (pay 2019)	\$6,763,498
2019 collections:	
July 2019 collections	\$3,554,260
December 2019 collections	3,026,366
January 2020 collections	83,870
Total collections - 2019	\$6,664,496
Collection percentage - current and delinquent	98.5%

Audit Management Letter

### **Fund Balances**

Fund balances represent net current assets of each fund (i.e., cash plus receivables minus liabilities).

The District's funds are all governmental type funds. Governmental type funds are accounted for using the current financial resources measurement focus. With this measurement focus, only current assets and current liabilities generally are included on the balance sheet.

The fund balances of the District were as follows at December 31, 2019 and 2018:

	Decem	Increase		
Fund	2019	2019 2018		
General Debt Service Funds:	\$4,633,167	\$4,464,553	\$168,614	
General Obligation Bonds Certificates of Participation Capital Project Funds:	1,252,348 130,460	381,949 131,513	870,399 (1,053)	
Capital Projects CIB	7,029,812	8,324,531	(1,294,719)	
Total	\$13,045,787	\$13,302,546	(\$256,759)	

During 2019, the District transferred \$863,674 from the Capital Projects CIB fund to the General Obligation Bonds fund. This amount represents unspent bond proceeds and other funds restricted for the Beltline and Battle Creek Tunnel Repair project which was completed in 2018.

Audit Management Letter

### **General Fund**

The fund balance of the General Fund increased by \$168,614 during the year.

Statement 6 of the Annual Financial Report details the General Fund budget versus actual operating results. A summary is presented below:

Budgeted change in fund balance		(\$1,400,000)
Actual revenue over (under) budgeted revenue:		
Property taxes	(\$33,256)	
Intergovernmental	(23,140)	
Investment income	87,747	
Permit escrow fees	180	
Stormwater impact payment	344,782	
Refunds, reimbursements and other	47,695	
		424,008
Actual expenditures (over) under budget:		
Engineering	50,284	
Salaries/payroll taxes/benefits	30,374	
Watershed programs	567,286	
All other - net	496,662	1,144,606
Net change in fund balance		\$168,614

The significant expenditure budget variance for watershed programs is primarily the result of the project feasibility studies and lake studies/WRAPS/TMDL's. The significant expenditure budget variance for all other – net is primarily the result of office equipment and maintenance, water quality monitoring, and project operations expenditures being significantly under budget.

**Audit Management Letter** 

### **Intergovernmental Revenue**

Intergovernmental grants and aids, and cost sharing agreement revenue (in all funds) in 2019 includes the following:

MN DNR Flood Hazard Mitigation grant	\$48,723
MN PCA Markham Pond grant	4,791
Met Council WOMP grants	5,835
Other	2,302
Total intergovernmental revenue	\$61,651

### **Stormwater Impact Payments**

Stormwater impact payment revenue totaled \$344,782 for the year ended December 31, 2019 as compared to \$38,660 for the year ended December 31, 2018. The majority of the increase is due to a \$231,300 alternative compliance payment received from the City of Woodbury related to its Upper Afton Road project.

### **Pension Liability**

In 2015, the District implemented GASB Statement No. 68, which required the reporting of the District's proportionate share of the PERA Net Pension Liability (NPL). During 2019, the District's share of PERA's NPL increased by \$3,139 to \$707,683. During 2019, the District paid its required contribution of \$68,723 to the Plan. The required contribution is a percentage of eligible wages.

Audit Management Letter

### **103.B Levy Authority**

Beginning with the 1998 tax levy, the District levied under Minnesota Statutes 103B.241 authority. As such, the District's General Fund is not limited by the \$250,000 tax levy authorized in Minnesota Statutes 103.D. The District no longer employs the Special Revenue Funds to account for maintenance and projects and instead levies for all non-CIB Fund projects out of the General Fund. Minnesota Statutes Section 103B.241 Subd.1 reads in part as follows:

#### 103B.241 LEVIES

Subdivision 1. Watershed plans and projects. Notwithstanding chapter 103D, a local government unit or watershed management organization may levy a tax to pay the increased costs of preparing a plan under sections 103B.231 and 103B.235 or for projects identified in an approved and adopted plan necessary to implement the purposes of section 103B.201. The proceeds of any tax levied under this section shall be deposited in a separate fund and expended only for the purposes authorized by this section. Watershed management organizations and local government units may accumulate the proceeds of levies as an alternative to issuing bonds to finance improvements.

In 1998, the District closed the Survey and Data Acquisition, Water Management Planning and Water Maintenance and Repair Special Revenue Funds and accounts for all non-CIB projects in the General Fund budget process.

Audit Management Letter

The fund balance of the General Fund for the past ten years has been as follows:

Year Ended		Increase
December 31	Amount	(Decrease)
2010	\$1,979,029	\$50,813
2011	2,493,960	514,931
2012 *	1,363,334	(1,130,626)
2013	1,725,348	362,014
2014	2,211,684	486,336
2015	2,901,187	689,503
2016	3,420,562	519,375
2017	4,329,905	909,343
2018	4,464,553	134,648
2019	4,633,167	168,614
* Restated for prior p	period adjustment	

In 1998, the District began levying for and expending all non-CIB Fund projects out of the General Fund. The District now sets the General Fund tax levy and budgeted expenditures at a level consistent with the District's reserve balance policy. In 2019, the District's final budget reflected a decrease of \$1,400,000 in General Fund reserves. Actual reserves increased by \$168,614 as detailed previously.

Audit Management Letter

The District budget includes a higher level of program activity in the General Fund, and as such requires a levy. Schedules and completion of projects is variable and often results in carryover fund balances and unspent levy amounts. These program funds are generally spent in the following budget year if not spent in the current budget year. Excess budget balances are considered in the following year levy/budget process to reduce ensuing year tax levies by spending down available fund balances. Past management reports have discussed the purposes and benefits of maintaining adequate cash flow reserve balances. A summary of these purposes and benefits is as follows:

- 1. <u>Cash flow reserve</u>. The District receives revenue from property taxes primarily in December and July. The District, however, incurs expenditures throughout the entire twelve month operating period. Timing differences in the receipt of property taxes should be compensated for with adequate operating reserves. The District targets 50% of the ensuing year's expenditure budget as end of year minimum unassigned fund balance. The unassigned balance at December 31, 2019 was \$4,598,342 or 115% of the ensuing year's expenditure budget.
- 2. Emergency and/or unanticipated expenditures. Operating budgets are estimates only. The District requires a surplus to finance unforeseen events. One method of measuring the amount of this type of surplus is to use a percent of the District's annual operating budget (i.e., 10% to 15% or more, depending upon the budget philosophy of the District).
- Preliminary project funding. Feasibility studies of potential projects require
  financing. The District does receive such preliminary funding for certain
  projects. Other minor projects may be more efficiently funded through available
  reserves.

**Audit Management Letter** 

### **CIB Authority**

This fund was established to account for the Capital Improvement Budget (CIB) process of the District. A summary of financial activity of this fund from inception is presented in Exhibit 2 of the Annual Financial Report.

Beginning in 1993 with the removal of levy limits and under authorities provided by State Statute Section 103B.241, the District is authorized to levy ad valorem taxes for the purposes of financing the CIB projects. The District has levied the following amounts for the CIB projects over the past ten years:

Collectible	CIB Levy
Year	Certified
2010	\$1,150,481
2011	859,379
2012	1,584,379
2013	2,268,479
2014	2,945,481
2015	3,513,200
2016	3,839,885
2017	3,205,383
2018	3,859,885
2019	3,754,885

These levies have financed the CIB projects detailed in Exhibit 2 of the Annual Financial Report. A summary of the District's ad valorem tax levies is presented in Exhibit 1 of the Annual Financial Report. Additionally, a breakdown of the District's CIB Fund levy by project is presented in Exhibit 2 of the Annual Financial Report.

**Audit Management Letter** 

### **Long-Term Debt**

The District entered into three separate G.O. Bond/loan agreements in 2012 and 2016 that remain outstanding as follows:

- ➤ G.O. Bonds of 2012 Public Facilities Authority (PFA)
- ➤ Certificates of Participation, Series 2012B
- ➤ G.O. Drainage Bonds of 2016A

The schedule of indebtedness and deferred tax levies associated are presented in Exhibits 3 and 4 of the Annual Financial Report.

The District has a Debt Service Fund to account for activity associated with the \$1,177,217 G.O. Bonds of 2012 and the \$3,860,000 G.O. Drainage Bonds of 2016A. Fund balance increased from \$381,949 at December 31, 2018 to \$1,252,348 at December 31, 2019. As previously mentioned, the primary reason for the increase was due to a transfer of \$863,674 from the Capital Projects CIB fund.

The District established a Debt Service Fund for the \$2,440,000 Certificates of Participation during 2005 (called for early redemption during 2013), which now includes the Refunding Certificates of Participation, 2012B. As of February 1, 2020, these certificates fully matured and the amount held in escrow was returned to the District.

Audit Management Letter

### COMMUNICATION WITH THOSE CHARGED WITH GOVERNANCE

We have audited the financial statements of the governmental activities and each major fund of the Ramsey-Washington Metro Watershed District (the District) for the year ended December 31, 2019. Professional standards require that we provide you with information about our responsibilities under generally accepted auditing standards, as well as certain information related to the planned scope and timing of our audit. We have communicated such information in our letter to you dated January 15, 2020. Professional standards also require that we communicate to you the following information related to our audit.

### **Significant Audit Matters**

Qualitative Aspects of Accounting Practices

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by the District are described in Note 1 to the financial statements. No new accounting policies were adopted and the application of existing policies was not changed during 2019. We noted no transactions entered into by the District during the year for which there is a lack of authoritative guidance or consensus. All significant transactions have been recognized in the financial statements in the proper period.

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected. The most sensitive estimates affecting the Governmental Activities financial statements are management's estimates of the net pension liability, the pension related deferred outflows and inflows of resources and pension expense. Management's estimates relating to the net

**Audit Management Letter** 

pension liability, pension related deferred outflows and inflows of resources and pension expense are based on actuarial studies. We evaluated the key factors and assumptions used to develop these estimates in determining that they are reasonable in relation to the financial statements taken as a whole.

Certain financial statement disclosures are particularly sensitive because of their significance to financial statement users. Determining sensitivity is subjective, however, we believe the disclosures most likely to be considered sensitive are Note 5 – Defined Benefit Pension Plans and Note 14 – Subsequent Events and Uncertainties.

The financial statement disclosures are neutral, consistent and clear.

Difficulties Encountered in Performing the Audit

We encountered no difficulties in dealing with management in performing and completing our audit.

#### Corrected and Uncorrected Misstatements

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are clearly trivial, and communicate them to the appropriate level of management. There were no uncorrected misstatements that have an effect on our opinion on the financial statements. There were no corrected misstatements identified during the audit.

**Audit Management Letter** 

### Disagreements with Management

For purposes of this letter, a disagreement with management is a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements arose during the course of our audit.

### Management Representations

We have requested certain representations from management that are included in the management representation letter dated April 7, 2020.

### Management Consultations with Other Independent Accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to the District's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

#### Other Audit Findings or Issues

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as the District's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

Audit Management Letter

### **Other Matters**

We applied certain limited procedures to the budgetary comparison schedule and pension information which are required supplementary information (RSI) that supplements the basic financial statements. Our procedures consisted of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We did not audit the RSI and do not express an opinion or provide any assurance on the RSI.

We were engaged to report on the individual fund financial statements, which accompany the financial statements but are not RSI. With respect to this supplementary information, we made certain inquiries of management and evaluated the form, content, and methods of preparing the information to determine that the information complies with accounting principles generally accepted in the United States of America, the method of preparing it has not changed from the prior period, and the information is appropriate and complete in relation to our audit of the financial statements. We compared and reconciled the supplementary information to the underlying accounting records used to prepare the financial statements or to the financial statements themselves.

We were not engaged to report on the introductory and other information sections, which accompany the financial statements but are not RSI. Such information has not been subjected to the auditing procedures applied in the audit of the basic financial statements, and accordingly, we do not express an opinion or provide any assurance on it.

Audit Management Letter

### **Other Reports**

Various reports on compliance and internal controls are contained in the Other Required Reports section of the audited financial statements document.

### **Restriction on Use**

This information is intended solely for the information and use of management and Ramsey-Washington Metro Watershed District's Board, and is not intended to be, and should not be, used by anyone other than these specified parties.



## RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

## ANNUAL FINANCIAL REPORT

December 31, 2019



### RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

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INTRODUCTORY SECTION

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### RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

ORGANIZATION

December 31, 2019

	Term Expires
Managers:	
Marj Ebensteiner - President	February 23, 2021
Clifton Aichinger - Vice President	February 23, 2022
Pamela Skinner - Secretary	February 23, 2021
Dianne Ward - Treasurer	February 23, 2023
Larry Swope - Manager	February 23, 2023
Administrator:	
Tina Carstens	Appointed

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**FINANCIAL SECTION** 

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#### INDEPENDENT AUDITOR'S REPORT

To the Honorable Managers of the Ramsey-Washington Metro Watershed District Little Canada, Minnesota

We have audited the accompanying financial statements of the governmental activities and each major fund of the Ramsey-Washington Metro Watershed District, as of and for the year ended December 31, 2019, and the related notes to the financial statements, which collectively comprise the Ramsey-Washington Metro Watershed District's basic financial statements as listed in the table of contents.

### **Management's Responsibility for the Financial Statements**

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

### **Auditor's Responsibility**

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

### **Opinions**

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities and each major fund of the Ramsey-Washington Metro Watershed District, as of December 31, 2019, and the respective changes in financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

### **Report on Summarized Comparative Information**

We have previously audited the Ramsey-Washington Metro Watershed District's 2018 financial statements, and we expressed an unmodified audit opinion on the respective financial statements of the governmental activities and each major fund in our report dated April 5, 2019. In our opinion, the summarized comparative information presented herein as of and for the year ended December 31, 2018 is consistent, in all material respects, with the audited financial statements from which it has been derived.

#### Other Matters

### Required Supplementary Information

Management has omitted the management's discussion and analysis that accounting principles generally accepted in the United States of America require to be presented to supplement the basic financial statements. Such missing information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. Our opinion on the basic financial statements is not affected by this missing information.

Accounting principles generally accepted in the United States of America require that the Budgetary Comparison Schedule, the Schedule of Proportionate Share of Net Pension Liability and the Schedule of Pension Contributions, as listed in the table of contents, be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

### Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Ramsey-Washington Metro Watershed District's basic financial statements. The introductory section, individual fund financial statements, and other information sections are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The individual fund financial statements are the responsibility of management and were derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the individual fund financial statements are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The introductory and other information sections have not been subjected to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on them.

REDPATH AND COMPANY, LTD.

Redpath and Company, Ltd.

St. Paul, Minnesota

April 7, 2020

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**BASIC FINANCIAL STATEMENTS** 

### RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

STATEMENT OF NET POSITION

December 31, 2019

With Comparative Totals For December 31, 2018

**Statement 1** 

	Primary Government		
	Governmental Activities		
	2019	2018	
Assets:	<b>***</b>	442 700 240	
Cash and investments	\$14,446,646	\$13,590,368	
Cash and investments with escrow	123,186	123,186	
Due from other governmental units	219,856	291,522	
Property taxes receivable:			
Delinquent	120,160	84,232	
Due from county	84,880	94,550	
Prepaid items	426,264	473,671	
Capital assets - net of accumulated depreciation:			
Depreciable	11,768,454	12,160,042	
Nondepreciable	421,581	421,581	
Total assets	27,611,027	27,239,152	
Deferred outflows of resources related to pensions	72,003	143,070	
Liabilities:			
Accounts payable	47,475	66,058	
Salaries payable	21,209	16,147	
Due to other governmental units	689,290	31,865	
Escrow deposits payable	1,375,739	974,665	
Retainage payable	10,677	17,553	
Unearned revenue	43,295	63,423	
Accrued interest payable	35,106	38,657	
Compensated absences payable:			
Due within one year	96,798	81,756	
Due in more than one year	2,765	6,912	
Unamortized bond premium	63,566	68,827	
Bonds payable:	,	,	
Due within one year	436,000	499,000	
Due in more than one year	3,794,000	4,230,000	
Net pension liability:	,	, ,	
Due in more than one year	707,683	704,544	
Total liabilities	7,323,603	6,799,407	
Deferred inflows of resources related to pensions	126,936	186,499	
Net position:			
Net investment in capital assets	11,385,035	11,507,623	
Restricted for debt service	129,685	130,300	
Unrestricted	8,717,771	8,758,393	
Total net position	\$20,232,491	\$20,396,316	

STATEMENT OF ACTIVITIES

For The Year Ended December 31, 2019

With Comparative Totals For The Year Ended December 31, 2018

	Program Revenues			ies	Net (Expense) Revenue and Changes in Net Position	
			Operating	Capital	Primary Gov	ernment
		Charges For	Grants and	Grants and	Totals	3
Functions/Programs	Expenses	Services	Contributions	Contributions	2019	2018
Primary government:						
Governmental activities:						
General government	\$2,301,519	\$326,282	\$1,648	\$ -	(\$1,973,589)	(\$1,939,938)
Programs	720,315	-	90,813	-	(629,502)	(595,366)
Projects	4,752,444	-	279,295	-	(4,473,149)	(3,957,102)
Interest on long-term debt	82,985				(82,985)	(121,832)
Total governmental activities	\$7,857,263	\$326,282	\$371,756	\$0	(7,159,225)	(6,614,238)
	General revenue	es:				
	Property taxes	3			6,713,231	6,877,366
	Unrestricted in	nvestment earni	ngs		268,427	201,240
	Miscellaneous	other			13,742	13,620
	Total genera	l revenues		_ _	6,995,400	7,092,226
	Change in net po	osition			(163,825)	477,988
	Net position - Ja	anuary 1		_	20,396,316	19,918,328
	Net position - D	ecember 31		<u>-</u>	\$20,232,491	\$20,396,316

BALANCE SHEET

GOVERNMENTAL FUNDS

December 31, 2019

With Comparative Totals For December 31, 2018

	C IF I	General Obligation	Certificates of	Capital Projects	Total Governmental Funds	
	General Fund	Bonds	Participation	CIB	2019	2018
Assets:					2019	2016
Cash and investments	\$5,838,073	\$976,693	\$ -	\$7,631,880	\$14,446,646	\$13,590,368
Cash and investments with escrow	-	-	123,186	-	123,186	123,186
Due from other governmental units	120,809	_	-	99,047	219,856	291,522
Due from other funds	115,530	-	_	-	115,530	185,709
Property taxes receivable:	,				,	,
Delinquent	47,333	7,006	3,439	62,382	120,160	84,232
Due from county	32,748	5,009	2,446	44,677	84,880	94,550
Prepaid items	34,825	271,081	120,358	- -	426,264	473,671
Total assets	\$6,189,318	\$1,259,789	\$249,429	\$7,837,986	\$15,536,522	\$14,843,238
Liabilities:						
Accounts payable	\$38,730	\$435	\$ -	\$8,310	\$47,475	\$66,058
Salaries payable	21,209	_	· <u>-</u>	-	21,209	16,147
Due to other governmental units	5,780	-	_	683,510	689,290	31,865
Due to other funds	-	_	115,530	-	115,530	185,709
Escrow deposits payable	1,375,739	_	-	_	1,375,739	974,665
Retainage payable	-	-	_	10,677	10,677	17,553
Unearned revenue	_	-	_	43,295	43,295	63,423
Total liabilities	1,441,458	435	115,530	745,792	2,303,215	1,355,420
Deferred inflows of resources:						
Unavailable revenue	114,693	7,006	3,439	62,382	187,520	185,272
Fund balance:						
Nonspendable	34,825	271,081	120,358	_	426,264	473,671
Restricted	-	981,267	10,102	_	991,369	113,568
Assigned	_	-	-	7,029,812	7,029,812	8,323,531
Unassigned	4,598,342	_	_	-	4,598,342	4,391,776
Total fund balance	4,633,167	1,252,348	130,460	7,029,812	13,045,787	13,302,546
Total liabilities, deferred inflows	\$6,189,318	\$1,259,789	\$249,429	\$7,837,986	\$15,536,522	\$14,843,238
of resources, and fund balance		4-,,	<del></del>	41,001,000		411,010,000
					042.045.505	<b>***</b>
Fund balance reported above Amounts reported for governmental activities	s in the statement of ne	t nosition are diffe	rent hecause:		\$13,045,787	\$13,302,546
Capital assets used in governmental activities			Tent occause.			
therefore, are not reported in the funds.	es are not imancial reso	ources and,			12,190,035	12,581,623
Other long-term assets are not available to	nay for current period e	expenditures			12,170,033	12,301,023
and, therefore, are reported as unavailable		Apenditures			187,520	185,272
		financial resource	s and		107,320	103,272
Deferred outflows of resources related to pensions are not current financial resources and, therefore, are not reported in the funds.					72,003	143,070
Long-term liabilities are not due and payab	le in the current period	and therefore are	e not		72,003	113,070
reported in the funds. Long-term liabiliti			. 1101			
Bonds payable	es ar year ena consist o				(4,230,000)	(4,729,000)
Unamortized bond premium					(63,566)	(68,827)
Accrued interest payable					(35,106)	(38,657)
Compensated absences payable					(99,563)	(88,668)
Net pension liability					(707,683)	(704,544)
Deferred inflows of resources related to per	nsions are associated w	ith long-term liabi	lities that		( ))	, ,- ·,
are not due and payable in the current pe					(126,936)	(186,499)
Net position of governmental activities					\$20,232,491	\$20,396,316
1						,5,5,5,5

STATEMENT OF REVENUES, EXPENDITURES AND

CHANGES IN FUND BALANCE

**GOVERNMENTAL FUNDS** 

For The Year Ended December 31, 2019

With Comparative Totals For The Year Ended December 31, 2018

General Obligation Certificates of Capital General Fund Bonds Total Governmental Funds Participation Projects CIB 2018 Revenues: 2019 General property taxes \$2,576,244 \$394,027 \$192,401 \$3,514,631 \$6,677,303 \$6,870,517 4,791 Intergovernmental - grants 56,860 350,507 61,651 Stormwater impact payment 344,782 344,782 38,660 Investment income 107,747 10.041 150,639 268,427 201,240 Permit escrow fees 15,180 15,180 10,500 62,880 Refunds and reimbursements 33,953 274,504 308,457 13,620 Other 13,742 13,742 Total revenues 3,148,508 404,068 192,401 3,944,565 7,689,542 7,547,924 Expenditures: Current: General government 2,195,910 2,195,910 1,934,950 **Programs** 716,715 716,715 634,467 Capital outlay 67,269 67,269 134,693 Construction/projects 4,375,610 4,375,610 3,952,361 Debt service: 190,000 Principal 309,000 499,000 521,692 Interest and fiscal agent fees 88,343 3,454 91,797 102,222 2,979,894 397,343 4,375,610 Total expenditures 193,454 7,946,301 7,280,385 Revenues over (under) expenditures 168,614 6,725 (1,053)(431,045)(256,759)267,539 Other financing sources (uses): Transfers in 863,674 863,674 Transfers out (863,674)(863,674)Total other financing sources (uses) 0 863,674 0 (863,674)0 0 168,614 Net change in fund balance 870,399 (1,053)(1,294,719)(256,759)267,539 Fund balance - January 1 4,464,553 381,949 131,513 8,324,531 13,302,546 13,035,007 \$13,045,787 Fund balance - December 31 \$4,633,167 \$1,252,348 \$130,460 \$7,029,812 \$13,302,546

Statement 4

RECONCILIATION OF THE STATEMENT OF REVENUES,

EXPENDITURES AND CHANGES IN FUND BALANCE OF

GOVERNMENTAL FUNDS

For The Year Ended December 31, 2019

With Comparative Totals For The Year Ended December 31, 2018

	_	2019	2018
Amounts reported for governmental activities in the			
statement of activities (Statement 2) are different because:			
Net changes in fund balances - total governmental funds (Statement 4)		(\$256,759)	\$267,539
Governmental funds report capital outlays as expenditures. However, in the			
statement of activities the cost of those assets is allocated over their			
estimated useful lives and reported as depreciation expense:			
Depreciation expense		(458,857)	(450,197)
Capital outlay		67,269	134,693
Capitalized current expenditures		-	28,028
The net effect of various miscellaneous transactions involving capital assets			
(i.e. sales, trade-ins, and donations) is to increase net position.		-	6,000
Revenues in the statement of activities that do not provide current financial			
resources are not reported as revenues in the funds:			
Change in unavailable revenue - delinquent property taxes		35,928	6,849
Change in unavailable revenue - stormwater impact payment		(33,680)	(33,680)
The issuance of long-term debt (e.g., bonds, leases) provides current financial			
resources to governmental funds, while the repayment of the principal of			
long-term debt consumes the current financial resources of governmental			
funds. Neither transaction, however, has any effect on net position.			
Repayment of principal of long-term debt		499,000	521,692
Governmental funds report the effects of bond premiums and discounts when			
the debt is first issued, whereas these amounts are deferred and amortized over			
the life of the debt in the statement of activities.			
Amortization of bond premium		5,261	5,261
Some expenses reported in the statement of activities do not require the use of			
current financial resources and, therefore, are not reported as expenditures in			
governmental funds. Changes in these expense accruals are as follows:			
Change in accrued interest payable		3,551	(24,871)
Change in compensated absences payable		(10,895)	(2,602)
Governmental funds report pension contributions as expenditures,			
however, pension expense is reported in the statement of activities.			
This is the amount by which pension expense differed from pension			
contributions in the current period:			
	3,723		
Pension expense (83	3,366)	(14,643)	19,276
Change in net position of governmental activities (Statement 2)	=	(\$163,825)	\$477,988

**Statement 5** 

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

## Note 1 SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

The accounting policies of the Ramsey-Washington Metro Watershed District (the District) conform to accounting principles generally accepted in the United States of America applicable to governmental units. The following is a summary of significant accounting policies.

#### A. FINANCIAL REPORTING ENTITY

The Ramsey-Washington Metro Watershed District was created in 1975 by the Minnesota Water Resources Board as provided in Minnesota Statutes Chapter 112. The District is operated by a five member Board of Managers appointed by the Ramsey and Washington County Boards of Commissioners for three year terms. In accordance with Governmental Accounting Standards Board (GASB) pronouncements and generally accepted accounting principles, the financial statements of the reporting entity should include the primary government and its component units. The District (primary government) does not have any component units.

## B. GOVERNMENT-WIDE AND FUND FINANCIAL STATEMENTS

The government-wide financial statements (i.e., the statement of net position and the statement of activities) report information on all of the non-fiduciary activities of the primary government. For the most part, the effect of inter-fund activity has been removed from these statements. *Governmental activities*, which normally are supported by taxes and intergovernmental revenues, are reported separately from *business-type activities*. There are no *business-type activities*, which rely to a significant extent on fees and charges for support.

The statement of activities demonstrates the degree to which the direct expenses of a given function are offset by program revenues. *Direct expenses* are those that are clearly identifiable with a specific function. *Program revenues* include 1) charges to customers or applicants who purchase, use or directly benefit from goods, services or privileges provided by a given function and 2) grants and contributions that are restricted to meeting the operational or capital requirements of a particular function. Taxes and other items not included among program revenues are reported instead as *general revenues*.

Separate financial statements are provided for governmental funds. Major individual governmental funds are reported as separate columns in the fund financial statements.

# C. MEASUREMENT FOCUS, BASIS OF ACCOUNTING AND FINANCIAL STATEMENT PRESENTATION

The government-wide financial statements are reported using the *economic resources measurement focus* and the *accrual basis of accounting*. Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows. Property taxes are recognized as revenues in the year for which they are levied. Grants and similar items are recognized as revenue as soon as all eligibility requirements imposed by the provider have been met.

Governmental fund financial statements are reported using the *current financial resources measurement focus* and the *modified accrual basis of accounting*. Revenues are recognized as soon as they are both measurable and available. Revenues are considered to be *available* when they are collectible within the current period or soon enough thereafter to pay liabilities of the current period. For this purpose, the District considers all revenues, except reimbursement grants, to be available if they are collected within 60 days of the end of the current fiscal period. Reimbursement grants are considered available if they are

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

collected within one year of the end of the current fiscal period. Expenditures generally are recorded when a liability is incurred, as under accrual accounting. However, debt service expenditures are recorded only when payment is due.

Property taxes, intergovernmental revenues and interest associated with the current fiscal period are all considered to be susceptible to accrual and so have been recognized as revenues of the current fiscal period. All other revenue items are considered to be measurable and available only when cash is received by the District.

The District reports the following major governmental funds:

<u>General Fund</u> is the general operating fund of the District. It is used to account for financial resources to be used for general administrative expenses and for the construction and maintenance of projects of common benefit to the District.

<u>General Obligation Bonds Debt Service</u> is established to account for accumulation of resources for, and the payment of, long-term debt principal, interest and related costs.

<u>Certificates of Participation Debt Service</u> is established to account for accumulation of resources for, and the payment of long-term debt principal, interest and costs related to the 2005 Certificates of Participation.

<u>Capital Project CIB Fund</u> is established to account for the capital improvement program as a part of the Watershed Management Plan. The fund is financed by an ad valorem tax levy. This fund was established pursuant to Minnesota Statutes, Chapter 473.

As a general rule the effect of inter-fund activity has been eliminated from the government-wide financial statements. Exceptions to this general rule are transactions that would be treated as revenues, expenditures or expenses if they involved external organizations, such as buying goods and services or payments in lieu of taxes, are similarly treated when they involve other funds of the District. Elimination of these charges would distort the direct costs and program revenues reported for the various functions concerned.

## D. BUDGETS

The Board of Managers prepares annual revenue and expenditure budgets for the District's General Fund. The District monitors budget performance on the fund basis. All amounts over budget have been approved by the Board through the disbursement approval process. The modified accrual basis of accounting is used by the District for budgeting data. All appropriations end with the fiscal year for which they were made. Encumbrance accounting, under which purchase orders, contracts and other commitments of monies are recorded in order to reserve that portion of the applicable appropriation, is not employed by the District.

# E. CASH AND INVESTMENTS

Cash and investment balances from all funds are pooled and invested to the extent available in authorized investments. Investment income is allocated to individual funds on the basis of the fund's equity in the cash and investment pool.

Investments are stated at fair value, except investments in external investment pools that meet GASB 79 requirements which are stated at amortized cost. Investment income is accrued at the balance sheet date.

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

Cash and investments with escrow represent money market accounts held by an escrow agent as the reserve account for the Certificates of Participation 2012B.

#### F. PROPERTY TAX REVENUE RECOGNITION

The Board of Managers annually adopts a tax levy and certifies it to the County in October (levy/assessment date) of each year for collection in the following year. The County is responsible for billing and collecting all property taxes for itself, the City, the local School District and other taxing authorities. Such taxes become a lien on January 1 and are recorded as receivables by the District at that date. Real property taxes are payable (by property owners) on May 15 and October 15 of each calendar year. Personal property taxes are payable by taxpayers on February 28 and June 30 of each year. These taxes are collected by the County and remitted to the District on or before July 7 and December 2 of the same year. Delinquent collections for November and December are received the following January. The District has no ability to enforce payment of property taxes by property owners. The County possesses this authority.

## GOVERNMENT-WIDE FINANCIAL STATEMENTS

The District recognizes property tax revenue in the period for which the taxes were levied. Uncollectible property taxes are not material and have not been reported.

## GOVERNMENTAL FUND FINANCIAL STATEMENTS

The District recognizes property tax revenue when it becomes both measurable and available to finance expenditures of the current period. In practice, current and delinquent taxes and State credits received by the District in July, December and January are recognized as revenue for the current year. Taxes collected by the county by December 31 (remitted to the District the following January) are classified as due from county. Taxes not collected by the county by December 31 are classified as delinquent taxes receivable. The portion of delinquent taxes not collected by the District in January is fully offset by deferred inflow of resources because they are not available to finance current expenditures.

## PROPERTY TAX LEVY

## 103B Levy Authority

Beginning with the 1998 tax levy, the District levied under Minnesota Statutes 103B.241 authority. As such, the District's General Fund and the Capital Projects CIB Funds are not limited by the tax levy authorized in Minnesota Statutes 103D. The District no longer employs the Special Revenue Funds to account for maintenance and projects and instead levies for all such projects out of the General and CIB Funds. Minnesota Statutes Section 103B.241 Subd.1 reads in part as follows:

#### 103B.241 LEVIES

Subdivision 1. Watershed plans and projects. Notwithstanding chapter 103D, a local government unit or watershed management organization may levy a tax to pay the increased costs of preparing a plan under sections 103B.231 and 103B.235 or for projects identified in an approved and adopted plan necessary to implement the purposes of section 103B.201. The proceeds of any tax levied under this section shall be deposited in a separate fund and expended only for the purposes authorized by this section. Watershed management organizations and local government units may accumulate the proceeds of levies as an alternative to issuing bonds to finance improvements.

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

#### G. INVENTORIES

The original cost of materials and supplies has been recorded as expenditures at the time of purchase. The District does not maintain material amounts of inventories.

#### H. PREPAID ITEMS

Certain payments to vendors reflect costs applicable to future accounting periods and are recorded as prepaid items in both government-wide and fund financial statements. Prepaid items are reported using the consumption method and recorded as expenditures/expenses at the time of consumption.

## I. CAPITAL ASSETS

Capital assets, which include property, plant, equipment and infrastructure assets and intangible assets such as easements and computer software, are reported in the governmental activities columns in the government-wide financial statements. Capital assets (including intangible assets) are defined by the District as assets with an initial, individual cost of more than \$5,000 and an estimated useful life in excess of one year. Such assets are recorded at historical cost or estimated historical cost if purchased or constructed. Donated capital assets are recorded at acquisition value at the date of donation. The costs of normal maintenance and repairs that do not add to the value of the asset or materially extend asset lives are not capitalized.

Property, plant and equipment of the District is depreciated using the straight-line method over the following estimated useful lives:

Buildings 40 years
Furniture Fixtures 5 years
Equipment 5 years
Vehicles 5 years
Infrastructure 50 – 100 years

# J. LONG-TERM OBLIGATIONS

In the government-wide financial statements, long-term debt is reported as a liability in the applicable governmental activities statement of net position. Material bond premiums and discounts are amortized over the life of the bonds.

In the fund financial statements, governmental fund types recognize bond premiums and discounts during the current period. The face amount of debt issued is reported as other financing sources. Premiums received on debt issuances are reported as other financing sources while discounts on debt issuances are reported as other financing uses.

#### K. COMPENSATED ABSENCES

It is the District's policy to permit employees to accumulate earned but unused vacation and sick pay benefits. A liability for these amounts is reported in governmental funds only if they have matured, for example, as a result of employee resignations and retirements. All vacation pay and accumulated sick leave benefits that are vested as severance pay are accrued when incurred in the government-wide financial statements.

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

#### L. FUND BALANCE CLASSIFICATIONS

In the fund financial statements, governmental funds report fund balance in classifications that disclose constraints for which amounts in those funds can be spent. These classifications are as follows:

Nonspendable - consists of amounts that are not in spendable form, such as prepaid items.

*Restricted* - consists of amounts related to externally imposed constraints established by creditors, grantors or contributors; or constraints imposed by state statutory provisions.

Committed - consists of internally imposed constraints. These constraints are established by Resolution of the Board.

Assigned - consists of internally imposed constraints. These constraints reflect the specific purpose for which it is the Board's intended use. These constraints are established by the Board and/or management. Pursuant to Board Resolution, the Board's District Administrator and/or Treasurer is authorized to establish assignments of fund balance.

*Unassigned* - is the residual classification for the general fund and also reflects negative residual amounts in other funds.

When both restricted and unrestricted resources are available for use, it is the District's policy to first use restricted resources, and then use unrestricted resources as they are needed.

When committed, assigned or unassigned resources are available for use, it is the District's policy to use resources in the following order: 1) committed 2) assigned and 3) unassigned.

## M. INTERFUND TRANSACTIONS

Interfund services provided and used are accounted for as revenues or expenditures. Transactions that constitute reimbursements to a fund for expenditures initially made from it that are properly applicable to another fund, are recorded as expenditures in the reimbursing fund and as reductions of expenditures in the fund that is reimbursed. All other interfund transactions are reported as transfers.

The District provides temporary advances to funds that have insufficient cash balances by means of an advance from another fund shown as due from other funds in the advancing fund, and due to other funds in the fund with the deficit, until adequate resources are received.

## N. USE OF ESTIMATES

The preparation of financial statements in accordance with generally accepted accounting principles in the United States of America (GAAP) requires management to make estimates that affect amounts reported in the financial statements during the reporting period. Actual results could differ from such estimates.

## O. RECLASSIFICATIONS

Certain reclassifications were made to prior year amounts to conform to the current year presentation.

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

#### P. COMPARATIVE TOTALS

The basic financial statements, individual fund financial statements, required supplementary information, and supplementary financial information include certain prior-year summarized comparative information in total but not at the level of detail required for presentation in conformity with generally accepted accounting principles. Accordingly, such information should be read in conjunction with the District's financial statements for the year ended December 31, 2018 from which the summarized information was derived.

## Q. DEFERRED OUTFLOWS/INFLOWS OF RESOURCES

In addition to assets, the statement of net position reports a separate section for deferred outflows of resources. This separate financial statement element represents a consumption of net position that applies to future period and so will *not* be recognized as an outflow of resources (expense) until then. The District has one item that qualifies for reporting in this category. It is the pension related deferred outflows reported in the government-wide Statement of Net Position.

In addition to liabilities, the statement of net position reports a separate section for deferred inflows of resources. This separate financial statement element represents an acquisition of net position that applies to future periods and so will *not* be recognized as an inflow of resources (revenue) until that time. The District has pension related deferred inflows of resources reported in the government-wide Statement of Net Position. The District also has an item, which arises only under a modified accrual basis of accounting, that qualifies for reporting in this category. Accordingly, the item, unavailable revenue, is reported only in the governmental fund balance sheet. The governmental funds report unavailable revenues from property taxes and unavailable stormwater impact fees.

## R. DEFINED BENEFIT PENSION PLANS

For purposes of measuring the net pension liability, deferred outflows/inflows of resources, and pension expense, information about the fiduciary net position of the Public Employees Retirement Association (PERA) and additions to/deductions from PERA's fiduciary net position have been determined on the same basis as they are reported by PERA except that PERA's fiscal year end is June 30. For this purpose, plan contributions are recognized as of employer payroll paid dates and benefit payments and refunds are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

## Note 2 DEPOSITS AND INVESTMENTS

#### A. DEPOSITS

In accordance with Minnesota Statutes, the District maintains deposits at those depository banks authorized by the District, all of which are members of the Federal Reserve System.

Minnesota Statutes require that all District deposits be protected by insurance, surety bond, or collateral. The market value of collateral pledged must equal 110% of the deposits not covered by insurance or bonds.

Minnesota Statutes require that securities pledged as collateral be held in safekeeping by the District or in a financial institution other than that furnishing the collateral. Authorized collateral includes the following:

- a) United States government treasury bills, treasury notes and treasury bonds;
- b) Issues of United States government agencies and instrumentalities as quoted by a recognized industry quotation service available to the government entity;
- c) General obligation securities of any state or local government with taxing powers which is rated "A" or better by a national bond rating service, or revenue obligation securities of any state or local government with taxing powers which is rated "AA" or better by a national bond rating service;
- d) General obligation securities of a local government with taxing powers may be pledged as collateral against funds deposited by that same local government entity;
- e) Irrevocable standby letters of credit issued by Federal Home Loan Banks to a municipality accompanied by written evidence that the bank's public debt is rated "AA" or better by Moody's Investors Service, Inc. or Standard & Poor's Corporation; and
- f) Time deposits that are fully insured by any federal agency.

The District did not have deposits at December 31, 2019.

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

#### **B. INVESTMENTS**

Minnesota Statutes authorize the District to invest in the following:

- a) Direct obligations or obligations guaranteed by the United States or its agencies, its instrumentalities or organizations created by an act of Congress, excluding mortgage-backed securities defined as high risk.
- b) Shares of investment companies registered under the Federal Investment Company Act of 1940 and whose only investments are in securities described in (a) above, general obligation tax-exempt securities, or repurchase or reverse repurchase agreements.
- c) Obligations of the State of Minnesota or any of its municipalities as follows:
  - 1) any security which is a general obligation of any state or local government with taxing powers which is rated "A" or better by a national bond rating service;
  - 2) any security which is a revenue obligation of any state or local government with taxing powers which is rated "AA" or better by a national bond rating service; and
  - 3) a general obligation of the Minnesota Housing Finance Agency which is a moral obligation of the State of Minnesota and is rated "A" or better by a national bond rating agency.
- d) Bankers acceptances of United States banks.
- e) Commercial paper issued by United States corporations or their Canadian subsidiaries, of the highest quality, and maturing in 270 days or less.
- f) Repurchase or reverse repurchase agreements with banks that are members of the Federal Reserve System with capitalization exceeding \$10,000,000; a primary reporting dealer in U.S. government securities to the Federal Reserve Bank of New York; certain Minnesota securities broker-dealers; or, a bank qualified as a depositor.
- g) General obligation temporary bonds of the same governmental entity issued under section 429.091, subdivision 7; 469.178, subdivision 5; or 475.61, subdivision 6.

As of December 31, 2019, the District had the following investments and maturities:

			Investment Maturities (in Years)
Investment Type	Rating	Fair Value	Less Than 1
External investment pool - 4M Fund	Not rated	\$14,446,646	\$14,446,646
Money market fund	Not rated	123,186	123,186
Total investments		\$14,569,832	\$14,569,832

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

A reconciliation of cash and investments as shown on the statement of net position is as follows:

Cash and investments	\$14,446,646
Cash and investments with escrow	123,186
Total	\$14,569,832

The District categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs to measure the fair value of the asset. The hierarchy has three levels. Level 1 investments are valued using inputs that are based on quoted prices in active markets for identical assets. Level 2 investments are valued using inputs that are based on quoted prices for similar assets or inputs that are observable, either directly or indirectly. Level 3 investments are valued using inputs that are unobservable. Pooled investments and mutual funds are not required to be categorized.

Investment Type	12/31/2019	
Investments not categorized:		
External investment pool - 4M Fund	\$ 14,446,646	
Money Market Fund	123,186	
Total	\$14,569,832	

#### C. INVESTMENT RISKS

<u>Credit Risk</u>. Credit risk is the risk that an issuer or other counterparty to an investment will be unable to fulfill its obligation to the holder of the investment. State law limits investments to commercial paper to those rated in the highest quality category by at least two nationally recognized rating agencies; in any security of the State of Minnesota or any of its municipalities which is rated "A" or better by a national bond rating service for general obligation and rated "AA" or better for a revenue obligation; a general obligation of the Minnesota Housing Finance Agency to those rated "A" or better by a national bond rating agency; mutual funds or money market funds whose investments are restricted to securities described in MS 118A.04. The District follows State Statutes in regards to credit risk of investments. The District does not have an investment policy which further limits its investment choices.

The District's external investment pool investment is with the 4M Fund which is regulated by Minnesota Statutes and the Board of Directors of the League of Minnesota Cities. The 4M fund is an unrated pool and the value of the position in the pool is the same as the value of pool shares. The pool is managed to maintain a portfolio weighted average maturity of no greater than 60 days and seeks to maintain a constant net asset value (NAV) per share of \$1. The pool measures its investments at amortized cost in accordance with Government Accounting Standards Board Statement No. 79.

The 4M Liquid Asset Fund has no redemption requirements.

<u>Interest Rate Risk</u>. Interest rate risk is the risk that changes in the interest rates of debt investments could adversely affect the fair value of an investment. The District does not have an investment policy which limits investment maturities as a means of managing its exposure to fair value losses arising from increasing interest rates.

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

<u>Concentration of Credit Risk</u>. Concentration of credit risk is the risk of loss that may be attributed to the magnitude of the District's investment in a single issuer. The District does not have an investment policy which addresses the concentration of credit risk.

<u>Custodial Credit Risk</u>. For investments in securities, custodial credit risk is the risk that in the event of a failure of the counterparty, the District will not be able to recover the value of its investment securities that is in the possession of an outside party. Investments in investment pools and money markets are not evidenced by securities that exist in physical or book entry form, and therefore are not subject to custodial credit risk disclosures. The District does not have an investment policy which addresses custodial credit risk.

# Note 3 RECEIVABLES

Significant receivable balances not expected to be collected within one year of December 31, 2019 are as follows:

	Major Funds				
		General Certificates Capital			
		Obligation	of	Projects	
	General	Bonds	Participation	CIB	Total
Delinquent property taxes	\$40,900	\$6,100	\$3,000	\$54,000	\$104,000

# Note 4 UNAVAILABLE REVENUES

Governmental funds report deferred inflows of resources in connection with receivables for revenues that are not considered to be available to liquidate liabilities of the current period. At the end of the current fiscal year, the various components of unavailable revenue reported in the governmental funds were as follows:

	Stormwater Property Taxes Impact Payment Total		
G 15 1	0.45.222	\$ 67.260	<b>***</b>
General Fund	\$47,333	\$67,360	\$114,693
General Obligation Bonds	7,006	-	7,006
Certificates of Participation	3,439	-	3,439
Capital Projects CIB	62,382		62,382
Total unavailable revenue	\$120,160	\$67,360	\$187,520

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

## Note 5 DEFINED BENEFIT PENSION PLANS

#### A. PLAN DESCRIPTION

The District participates in the General Employees Retirement Fund, which is a cost-sharing multiple-employer defined benefit pension plan administered by the Public Employees Retirement Association of Minnesota (PERA). PERA's defined benefit pension plans are established and administered in accordance with Minnesota Statutes, Chapters 353 and 356. PERA's defined benefit pension plans are tax qualified plans under Section 401(a) of the Internal Revenue Code.

All full-time and certain part-time employees of the District are covered by the General Employees Retirement Fund (GERF). GERF members belong to the Coordinated Plan. Coordinated Plan members are covered by Social Security.

## **B. BENEFITS PROVIDED**

PERA provides retirement, disability, and death benefits. Benefit provisions are established by state statute and can only be modified by the state legislature. Vested, terminated employees who are entitled to benefits but are not receiving them yet are bound by the provisions in effect at the time they last terminated their public service.

Benefits are based on a member's highest average salary for any five successive years of allowable service, age, and years of credit at termination of service. Two methods are used to compute benefits for PERA's Coordinated Plan members. Members hired prior to July 1, 1989, receive the higher of Method 1 or Method 2 formulas. Only Method 2 is used for members hired after June 30, 1989. Under Method 1, the accrual rate for Coordinated Plan members is 1.2% of average salary for each of the first ten years of service and 1.7% of average salary for each additional year. Under Method 2, the accrual rate for Coordinated Plan members is 1.7% of average salary for all years of service. For members hired prior to July 1, 1989 a full annuity is available when age plus years of service equal 90 and normal retirement age is 65. For members hired on or after July 1, 1989 normal retirement age is the age for unreduced Social Security benefits capped at 66.

Annuities, disability benefits, and survivor benefits are increased effective every January 1. Beginning January 1, 2019, the postretirement increase will be equal to 50% of the cost-of-living adjustment (COLA) announced by the SSA, with a minimum increase of at least 1% and a maximum of 1.5%. Recipients that have been receiving the annuity or benefit for at least a full year as of the June 30 before the effective date of the increase will receive the full increase. For recipients receiving the annuity or benefit for at least one month but less than a full year as of the June 30 before the effective date of the increase will receive a reduced prorated increase. For members retiring on January 1, 2024 or later, the increase will be delayed until normal retirement age (age 65 if hired prior to July 1, 1989, or age 66 for individuals hired on or after July 1, 1989). Members retiring under Rule of 90 are exempt from the delay to normal retirement.

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

#### C. CONTRIBUTIONS

Minnesota Statutes Chapter 353 sets the rates for employer and employee contributions. Contribution rates can only be modified by the state legislature.

Coordinated Plan members were required to contribute 6.50% of their annual covered salary in fiscal year 2019; the District was required to contribute 7.50% for Coordinated Plan members. The District's contributions to the GERF for the year ended December 31, 2019, were \$68,723. The District's contributions were equal to the required contributions as set by state statute.

#### D. PENSION COSTS

At December 31, 2019, the District reported a liability of \$707,683 for its proportionate share of the GERF's net pension liability. The Districts' net pension liability reflected a reduction due to the State of Minnesota's contribution of \$16 million to the fund in 2019. The State of Minnesota is considered a non-employer contributing entity and the state's contribution meets the definition of a special funding situation. The State of Minnesota's proportionate share of the net pension liability associated with the District totaled \$21,999. The net pension liability was measured as of June 30, 2019, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of that date. The District's proportionate share of the net pension liability was based on the District's contributions received by PERA during the measurement period for employer payroll paid dates from July 1, 2018, through June 30, 2019, relative to the total employer contributions received from all of PERA's participating employers. At June 30, 2019, the District's proportionate share was .0128% which was an increase of .0001% from its proportion measured as of June 30, 2018.

Districts proportionate share of the net pension liability	\$707,683
State of Minnesota's proportionate share of the net	
pension liability associated with the District	21,999
Total	\$729,682

For the year ended December 31, 2019, the District recognized pension expense of \$83,366 for its proportionate share of the GERF's pension expense. In addition, the District recognized an additional \$1,648 as pension expense (and grant revenue) for its proportionate share of the State of Minnesota's contribution of \$16 million to the GERF.

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

At December 31, 2019, the District reported its proportionate share of the GERF's deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	Deferred Outflows	Deferred Inflows	
	of Resources	of Resources	
Differences between expected and			
actual economic experience	\$19,649	\$ -	
Changes in actuarial assumptions	-	55,730	
Net collective difference between projected			
and actual investment earnings	-	71,206	
Changes in proportion	18,203	-	
Contributions paid to PERA			
subsequent to the measurement date	34,151		
Total	\$72,003	\$126,936	

\$34,151 reported as deferred outflows of resources related to pensions resulting from District contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the year ended December 31, 2020. Other amounts reported as deferred outflows and inflows of resources related to pensions will be recognized in pension expense as follows:

	Pension
Year Ended	Expense
December 31,	Amount
2020	(\$26,995)
2021	(50,728)
2022	(12,500)
2023	1,139
2024	-
Thereafter	-

Pension liabilities are generally liquidated by the General Fund.

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

#### E. ACTUARIAL ASSUMPTIONS

The total pension liability in the June 30, 2019 actuarial valuation was determined using an individual entry-age normal actuarial cost method and the following actuarial assumptions:

Inflation	2.50% per year
Active Member Payroll Growth	3.25% per year
Investment Rate of Return	7.50%

Salary increases were based on a service-related table. Mortality rates for active members, retirees, survivors, and disabilitants for all plans were based on RP 2014 tables for males or females, as appropriate, with slight adjustments to fit PERA's experience. Cost of living benefit increases after retirement for retirees are assumed to be 1.25% per year for the General Employees Plan.

Actuarial assumptions used in the June 30, 2019 valuation were based on the results of actuarial experience studies. The most recent four-year experience study in the General Employees Plan was completed in 2019.

The following changes in actuarial assumptions and plan provisions occurred in 2019:

Changes in Actuarial Assumptions:

• The mortality projection scale was changed from MP-2017 to MP-2018.

Changes in Plan Provisions:

• The employer supplemental contribution was changed prospectively, decreasing from \$31.0 million to \$21.0 million per year. The State's special funding contribution was changed prospectively, requiring \$16.0 million due per year through 2031.

The State Board of Investment, which manages the investments of PERA, prepares an analysis of the reasonableness on a regular basis of the long-term expected rate of return using a building-block method in which best-estimate ranges of expected future rates of return are developed for each major asset class. These ranges are combined to produce an expected long-term rate of return by weighting the expected future rates of return by the target asset allocation percentages. The target allocation and best estimates of geometric real rates of return for each major asset class are summarized in the following table:

	Target	Long-Term Expected
Asset Class	Allocation	Real Rate of Return
Domestic Equity	35.5%	5.10%
Private Market	25.0%	5.90%
Fixed Income	20.0%	0.75%
International Equity	17.5%	5.90%
Cash Equivalents	2.0%	0.00%
Total	100%	

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

#### F. DISCOUNT RATE

The discount rate used to measure the total pension liability in 2019 was 7.50%. The projection of cash flows used to determine the discount rate assumed that contributions from plan members and employers will be made at rates set in Minnesota statute. Based on that assumption, the fiduciary net position of the GERF was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

# G. PENSION LIABILITY SENSITIVITY

The following presents the District's proportionate share of the net pension liability for all plans it participates in, calculated using the discount rate disclosed in the preceding paragraph, as well as what the District's proportionate share of the net pension liability would be if it were calculated using a discount rate 1 percentage point lower or 1 percentage point higher than the current discount rate:

	1% Decrease in		1% Increase in
	Discount Rate (6.5%)	Discount Rate (7.5%)	Discount Rate (8.5%)
District's proportionate share			
of the net pension liability	\$1,163,393	\$707,683	\$331,404

## H. PENSION PLAN FIDUCIARY NET POSITION

Detailed information about each pension plan's fiduciary net position is available in a separately-issued PERA financial report that includes financial statements and required supplementary information. That report may be obtained on the Internet at www.mnpera.org.

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

# Note 6 CAPITAL ASSETS

Capital asset activity for the year ended December 31, 2019 was as follows:

	Beginning		_	Ending
	Balance	Increases	Decreases	Balance
Governmental activities:				
Capital assets, not being depreciated:				
Land	\$421,581	\$ -	\$ -	\$421,581
Total capital assets, not being depreciated	421,581	0	0	421,581
Capital assets, being depreciated:				
Building	2,234,955	-	-	2,234,955
Furniture and fixtures	102,063	-	-	102,063
Equipment	125,736	5,374	-	131,110
Vehicles	118,892	14,049	-	132,941
Infrastructure	20,085,279	47,846	-	20,133,125
Total capital assets, being depreciated	22,666,925	67,269	0	22,734,194
Less accumulated depreciation for:				
Building	682,965	55,876	-	738,841
Furniture and fixtures	102,063	-	-	102,063
Equipment	117,856	3,600	-	121,456
Vehicles	47,592	22,547	-	70,139
Infrastructure	9,556,407	376,834	-	9,933,241
Total accumulated depreciation	10,506,883	458,857	0	10,965,740
Total capital assets being depreciated - net	12,160,042	(391,588)	0	11,768,454
Governmental activities capital assets - net	\$12,581,623	(\$391,588)	\$0	\$12,190,035

Depreciation expense was charged to function/programs of the primary government as follows:

Governmental activities:	
General government	\$78,423
Programs	3,600
Projects	376,834
Total depreciation expense - governmental activities	\$458,857

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

# Note 7 LONG-TERM DEBT

Annual debt service requirements to maturity for general obligation bonds are as follows:

	Governmental Activities								
	Certificates of	Participation	G.O. Bonds	s of 2012	G.O. Draina	ge Bonds		_	
Year Ending	Series 2	2012B	PFA I	Bond	2016	A	Tota	ls	
December 31,	Principal	Interest	Principal	Interest	Principal	Interest	Principal	Interest	
2020	\$120,000	\$990	\$81,000	\$11,611	\$235,000	\$69,813	\$436,000	\$82,414	
2021	-	-	82,000	10,238	240,000	65,063	322,000	75,301	
2022	-	-	83,000	8,848	240,000	60,263	323,000	69,111	
2023	-	-	85,000	7,441	245,000	55,413	330,000	62,854	
2024	-	-	86,000	6,000	250,000	50,463	336,000	56,463	
2025	-	-	88,000	4,543	255,000	45,413	343,000	49,956	
2026	-	-	89,000	3,051	260,000	40,263	349,000	43,314	
2027	-	-	91,000	1,542	270,000	34,963	361,000	36,505	
2028	-	-	-	-	275,000	29,513	275,000	29,513	
2029	-	-	-	-	280,000	23,963	280,000	23,963	
2030	-	-	-	-	285,000	17,956	285,000	17,956	
2031	-	-	-	-	290,000	11,125	290,000	11,125	
2032		-		-	300,000	3,750	300,000	3,750	
				<u></u> .					
Total	\$120,000	\$990	\$685,000	\$53,274	\$3,425,000	\$507,961	\$4,230,000	\$562,225	

The following is a schedule of changes in the District's indebtedness for the year ended December 31, 2019:

	Balance			Balance	Due Within
	12/31/18	Additions	Deletions	12/31/19	One Year
Governmental activities:					
Bonded debt:					
General Obligation Bonds of 2012, PFA Bond	\$764,000	\$ -	(\$79,000)	\$685,000	\$81,000
Certificates of Participation, Series 2012B	310,000	-	(190,000)	120,000	120,000
General Obligation Drainage Bonds of 2016A	3,655,000	-	(230,000)	3,425,000	235,000
Unamortized bond premium	68,827	-	(5,261)	63,566	-
Compensated absences	88,668	113,181	(102,286)	99,563	96,798
Total governmental activities	\$4,886,495	\$113,181	(\$606,547)	\$4,393,129	\$532,798

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

## 2012 MINNESOTA PUBLIC FACILITIES AUTHORITY (PFA) BOND

The District entered into a loan agreement with the Minnesota Public Facilities Authority (PFA) on May 5, 2012. The agreement calls for the PFA to lend \$1,569,623 from the Clean Water Revolving Fund Principal Forgiveness – Green Project, to the District for the purpose of funding the eligible costs related to the Maplewood Mall project. Of this amount, \$1,177,217 (the "Loan") has a final maturity date of August 20, 2027 and carries an interest rate of 1.695% per annum. The remaining \$392,406 (the "Green Principal Forgiveness"), is not required to be repaid except as otherwise provided per the terms of the agreement. The District's management has indicated that the terms of the "Green Principal Forgiveness" will be met. The loan is considered a direct borrowing and is a general obligation of the District for which it pledges its full faith, credit and taxing powers to the payment of principal and interest on the bonds.

# \$1,230,000 REFUNDING CERTIFICATES OF PARTICIPATION, SERIES 2012B

The District entered into an agreement with U.S. Bank National Association for \$2,440,000 of Certificates of Participation, Series 2005A in a lease – purchase agreement. The agreement was for the District to construct an administrative building to serve as the District headquarters. The District had requested the trustee to serve both as lessor under a lease purchase agreement and trustee. The \$1,230,000 Refunding Certificates of Participation refunded the Series 2005A Certificates of Participation. The final maturity date is February 1, 2020.

## \$3,860,000 GENERAL OBLIGATION DRAINAGE BONDS, SERIES 2016A

The District sold the \$3,860,000 2016A Bonds on November 15, 2016 for the purpose of funding eligible ongoing maintenance and repairs for the Beltline and Battle Creek Tunnel repair project. The term of the bond is 15 years, at an interest rate of 2.0% - 2.5% per annum. The final maturity date is February 1, 2032.

# PLEDGED REVENUE

Future revenue pledged for the payment of long-term debt is as follows:

		Revenue Pledged				Current	Year
			Percent of		Remaining	Principal	Pledged
	Use of		Total	Term of	Principal	and Interest	Revenue
Bond Issue	Proceeds	Type	Debt Service	Pledge	and Interest	Paid	Received
2016A Bond	Beltline and Battle Creek Tunnel Repair	Property Taxes	100%	2016 - 2031	\$3,932,961	\$305,393	\$399,113

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

## Note 8 CONTINGENCIES

The District's management has indicated that there are no pending lawsuits or other actions in which the District is a defendant.

## Note 9 COMMITTED CONTRACTS

At December 31, 2019, the District had committed contracts of \$209,253 for construction/repair projects.

# Note 10 FUND BALANCE

## A. CLASSIFICATIONS

At December 31, 2019, a summary of the governmental fund balance classifications are as follows:

		General Obligation	Certificates of	Capital Projects	
	General Fund	Bonds	Participation	CIB	Total
Nonspendable:					
Prepaid items	\$34,825	\$271,081	\$120,358	\$ -	\$426,264
Restricted for:					
Debt service	-	981,267	10,102	-	991,369
Assigned for:					
Construction/projects	-	-	-	7,029,812	7,029,812
Unassigned	4,598,342				4,598,342
Total	\$4,633,167	\$1,252,348	\$130,460	\$7,029,812	\$13,045,787

## B. MINIMUM UNASSIGNED FUND BALANCE POLICY

The Board has formally adopted a policy regarding the minimum unassigned fund balance for the General Fund. The most significant revenue source of the General Fund is property taxes. This revenue source is received in two installments during the year – June and December. As such, it is the District's goal to begin each fiscal year with sufficient working capital to fund operations between each semi-annual receipt of property taxes.

The policy establishes a year end targeted unassigned fund balance amount for cash-flow timing needs, emergencies/contingencies and compensated absences of 50% of the subsequent year's budgeted expenditures. At December 31, 2019, the unassigned fund balance of the General Fund was 115% of the subsequent year's budgeted expenditures.

NOTES TO FINANCIAL STATEMENTS

December 31, 2019

## Note 11 INTERFUND ACTIVITY

Individual fund interfund receivable and payable balances at December 31, 2019 are as follows:

Fund	Receivable	Payable
General Fund	\$115,530	\$ -
Certificates of Participation		115,530
Total	\$115,530	\$115,530

Interfund receivables and payables are representative of lending/borrowing arrangements to cover deficit cash balances at the end of the fiscal year.

During 2019, the District transferred \$863,674 from the Capital Projects CIB fund to the General Obligation Bonds fund. This amount represents unspent bond proceeds and other funds restricted for the Beltline and Battle Creek Tunnel Repair project which was completed in 2018.

## Note 12 RISK MANAGEMENT

The District is exposed to various risks of loss related to torts; theft of, damage to and destruction of assets; errors and omissions; injuries to employees; and natural disasters.

Workers compensation coverage for District employees and council members is provided through a pooled self-insurance program through the League of Minnesota Cities Insurance Trust (LMCIT). The District pays an annual premium to LMCIT. The District is subject to supplemental assessments if deemed necessary by the LMCIT. The LMCIT reinsures through Workers Compensation Reinsurance Association (WCRA) as required by law. For workers compensation, the District is not subject to a deductible. The District workers compensation coverage is retrospectively rated. With this type of coverage, final premiums are determined after loss experience is known. The amount of premium adjustment, if any, is considered immaterial and not recorded until received or paid.

Other insurance coverage is provided through a pooled self-insurance program through the LMCIT. The District pays an annual premium to the LMCIT. The District is subject to supplemental assessments if deemed necessary by the LMCIT. The LMCIT reinsures through commercial companies for claims in excess of various amounts. The District retains risk for the deductible portions of the insurance policies. The amount of these deductibles is considered immaterial to the financial statements.

There were no significant reductions in insurance from the previous year or settlements in excess of insurance coverage for any of the past three fiscal years.

NOTES TO FINANCIAL STATEMENTS December 31, 2019

# Note 13 RECENTLY ISSUED ACCOUNTING STANDARDS

The Governmental Accounting Standards Board (GASB) recently approved the following statements which were not implemented for these financial statements:

**Statement No. 87** *Leases.* The provisions of this Statement are effective for reporting periods beginning after December 15, 2019.

**Statement No. 89** Accounting for Interest Cost Incurred before the End of a Construction Period. The provisions of this Statement are effective for reporting periods beginning after December 15, 2019.

**Statement No. 91** *Conduit Debt Obligations.* The provisions of this Statement are effective for reporting periods beginning after December 15, 2020.

The effect these standards may have on future financial statements is not determinable at this time.

# Note 14 SUBSEQUENT EVENTS AND UNCERTAINTIES

The COVID-19 pandemic continues to cause rapidly changing disruptions world-wide. Management has evaluated these conditions and believes that it is not possible to reasonably estimate the financial impact, if any, of COVID-19 on the District's financial statements at December 31, 2019.

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**REQUIRED SUPPLEMENTARY INFORMATION** 

REQUIRED SUPPLEMENTARY INFORMATION

BUDGETARY COMPARISON SCHEDULE - GENERAL FUND

For The Year Ended December 31, 2019

With Comparative Actual Amounts For The Year Ended December 31, 2018

Statement 6 Page 1 of 2

	2019				
	D.1.4.1			Variance with Final Budget -	2018
	Budgeted		Actual	Positive	Actual
D.	Original	Final	Amounts	(Negative)	Amounts
Revenues:	¢2 (00 500	£2 (00 500	¢2 577 244	(\$22.25()	¢2 5 ( 4 72 4
General property taxes	\$2,609,500	\$2,609,500	\$2,576,244	(\$33,256)	\$2,564,734
Intergovernmental - grants	80,000	80,000	56,860	(23,140)	33,785
Stormwater impact payment	20.000	20.000	344,782	344,782	38,660
Investment income	20,000	20,000	107,747	87,747	76,735
Permit escrow fees	15,000	15,000	15,180	180	10,500
Refunds and reimbursements	-	-	33,953	33,953	8,468
Other	2.724.500	2 724 500	13,742	13,742	13,620
Total revenues	2,724,500	2,724,500	3,148,508	424,008	2,746,502
Expenditures:					
General government:					
Engineering:					
Administration	93,000	93,000	74,260	18,740	75,833
Permit review	55,000	55,000	47,186	7,814	54,018
Engineer review	65,000	65,000	41,270	23,730	47,972
Subtotal engineering	213,000	213,000	162,716	50,284	177,823
Consulting	40,000	40,000	102,710	40,000	7,832
District training	25,000	25,000	25,222	(222)	22,430
Dues	11,000	11,000	10,097	903	10,152
Employee expenses	10,000	10,000	7,910	2,090	5,742
Insurance	35,000	35,000	36,122	(1,122)	33,865
Legal and audit	105,000	105,000	83,984	21,016	66,814
Manager's per diem and expenses	10,000	10,000	9,796	204	5,129
Miscellaneous	5,000	5,000	538	4,462	400
Office equipment and maintenance	360,000	360,000	162,076	197,924	43,990
Office supplies and postage	15,000	15,000	5,728	9,272	7,632
Printing	8,000	8,000	6,002	1,998	5,100
Salaries/payroll taxes/benefits	1,385,000	1,385,000	1,354,626	30,374	1,219,782
Telephone	8,000	8,000	6,442	1,558	3,694
Utilities	20,000	20,000	25,125	(5,125)	16,864
Vehicle lease and maintenance	43,000	43,000	75,168	(32,168)	49,579
Water quality monitoring	300,000	300,000	219,551	80,449	164,898
GIS system maintenance and equipment	20,000	20,000	(1,135)	21,135	5,401
Internet/website	45,000	45,000	40,900	4,100	35,051
Project operations	160,000	160,000	28,642	131,358	92,068
Committee expenditures	3,500	3,500	3,669	(169)	3,141
Communications and marketing	25,000	25,000	6,001	18,999	6,691
Total general government	2,846,500	2,846,500	2,269,180	577,320	1,984,078

REQUIRED SUPPLEMENTARY INFORMATION

BUDGETARY COMPARISON SCHEDULE - GENERAL FUND

For The Year Ended December 31, 2019

With Comparative Actual Amounts For The Year Ended December 31, 2018

Statement 6 Page 2 of 2

		2019					
	Budgeted Amounts		Actual	Variance with Final Budget - Positive	2018 Actual		
	Original	Final	Amounts	(Negative)	Amounts		
Watershed programs:							
Project feasibility studies	\$790,000	\$790,000	\$434,794	\$355,206	\$315,190		
Education programming	60,000	60,000	16,096	43,904	32,224		
Natural resources program	115,000	115,000	109,034	5,966	98,014		
Research projects	115,000	115,000	59,457	55,543	65,835		
Waterfest	50,000	50,000	39,445	10,555	41,987		
NPDES Phase II	10,000	10,000	-	10,000	10,262		
Health and safety program	3,000	3,000	1,043	1,957	2,748		
Lake Studies/WRAPS/TMDL	68,000	68,000	4,115	63,885	18,725		
Outside programs	67,000	67,000	46,730	20,270	42,791		
Total watershed programs	1,278,000	1,278,000	710,714	567,286	627,776		
Total expenditures	4,124,500	4,124,500	2,979,894	1,144,606	2,611,854		
Revenues over (under) expenditures	(\$1,400,000)	(\$1,400,000)	168,614	\$1,568,614	134,648		
Fund balance - January 1			4,464,553		4,329,905		
Fund balance - December 31		=	\$4,633,167	:	\$4,464,553		

REQUIRED SUPPLEMENTARY INFORMATION SCHEDULE OF PROPORTIONATE SHARE OF NET PENSION LIABILITY - GENERAL EMPLOYEES RETIREMENT FUND

г	TEI :	т ,	TC	3.7
For	The	Last	Len	Years

					District's			
					Proportionate			
					Share of the		Proportionate	
				State's	Net Pension		Share	
				Proportionate	Liability and		of the	
			District's	Share (Amount)	the State's		Net Pension	
		District's	Proportionate	of the Net	Proportionate		Liability as a	Plan Fiduciary
		Proportionate	Share (Amount)	Pension	Share of the Net		Percentage	Net Position as
Measurement	Fiscal Year	(Percentage) of	of the Net	Liability	Pension Liability		of its	a Percentage
Date	Ending	the Net Pension	Pension	Associated with	Associated with	Covered	Covered	of the Total
June 30	December 31	Liability	Liability (a)	District (b)	District (a+b)	Payroll (c)	Payroll (a+b)/c	Pension Liability
2015	2015	0.0132%	\$684,093	\$ -	\$684,093	\$773,820	88.4%	78.2%
2016	2016	0.0120%	974,340	12,771	987,111	747,482	132.1%	68.9%
2017	2017	0.0125%	797,992	10,038	808,030	805,604	100.3%	75.9%
2018	2018	0.0127%	704,544	23,081	727,625	852,560	85.3%	79.5%
2019	2019	0.0128%	707,683	21,999	729,682	903,338	80.8%	80.2%

The schedule is provided prospectively beginning with the District's fiscal year ended December 31, 2015 and is intended to show a ten year trend. Additional years will be reported as they become available.

REQUIRED SUPPLEMENTARY INFORMATION

SCHEDULE OF PENSION CONTRIBUTIONS - GENERAL EMPLOYEES RETIREMENT FUND

For The Last Ten Years

Fiscal Year Ending December 31	Statutorily Required Contribution (a)	Contributions in Relation to the Statutorily Required Contribution (b)	Contribution Deficiency (Excess) (a-b)	Covered Payroll (c)	Contributions as a Percentage of Covered Payroll (b/c)
2015	\$57,121	\$57,121	\$ -	\$761,606	7.5%
2016	57,310	57,310	-	764,138	7.5%
2017	60,595	60,595	-	807,938	7.5%
2018	65,933	65,933	-	879,103	7.5%
2019	68,723	68,723	-	916,307	7.5%

**Statement 8** 

The schedule is provided prospectively beginning with the District's fiscal year ended December 31, 2015 and is intended to show a ten year trend. Additional years will be reported as they become available.

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REQUIRED SUPPLEMENTARY INFORMATION NOTES TO RSI December 31, 2019

## Note A LEGAL COMPLIANCE – BUDGETS

The General Fund budget is legally adopted on a basis consistent with accounting principles generally accepted in the United States of America. The legal level of budgetary control is at the fund level for the General Fund.

## Note B PENSION INFORMATION

## PERA – General Employees Retirement Fund

## 2019 Changes

Changes in Actuarial Assumptions:

• The mortality projection scale was changed from MP-2017 to MP-2018.

Changes in the Plan Provisions

• The employer supplemental contribution was changed prospectively, decreasing from \$31.0 million to \$21.0 million per year. The State's special funding contribution was changed prospectively, requiring \$16.0 million due per year through 2031.

## 2018 Changes

Changes in Actuarial Assumptions:

- The mortality projection scale was changed from MP-2015 to MP-2017.
- The assumed benefit increase was changed from 1.0% per year through 2044 and 2.50% per year thereafter to 1.25% per year.

## 2017 Changes

Changes in Actuarial Assumptions

- The Combined Service Annuity (CSA) loads were changed from 0.8% for active members and 60% for vested and non-vested deferred members. The revised CSA loads are 0.0% for active member liability, 15.0% for vested deferred member liability and 3.0% for non-vested deferred member liability.
- The assumed post-retirement benefit increase rate was changed from 1.0% per year for all years to 1.0% per year through 2044 and 2.5% per year thereafter.

#### 2016 Changes

Changes in Actuarial Assumptions:

- The assumed post-retirement benefit increase rate was changed from 1.0% per year through 2035 and 2.5% per year thereafter to 1.0% per year for all future years.
- The assumed investment return was changed from 7.9% to 7.5%. The single discount rate was changed from 7.9% to 7.5%.
- Other assumptions were changed pursuant to the experience study dated June 30, 2015. The assumed future salary increases, payroll growth, and inflation were decreased by 0.25% to 3.25% for payroll growth and 2.50% for inflation.

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**INDIVIDUAL FUND FINANCIAL STATEMENTS** 

COMPARATIVE BALANCE SHEET

GENERAL FUND

December 31, 2019

With Comparative Totals For December 31, 2018

**Statement 9** 

	2019	2018
Assets:		
Cash and investments	\$5,838,073	\$5,257,503
Due from other governmental units	120,809	117,413
Due from other funds	115,530	185,709
Property taxes receivable:		
Delinquent	47,333	34,502
Due from county	32,748	35,260
Prepaid items	34,825	12,936
Total assets	\$6,189,318	\$5,643,323
Liabilities:		
Accounts payable	\$38,730	\$41,761
Salaries payable	21,209	16,147
Due to other governmental units	5,780	10,655
Escrow deposits payable	1,375,739	974,665
Total liabilities	1,441,458	1,043,228
Deferred inflows of resources:		
Unavailable revenue	114,693	135,542
Fund balance:		
Nonspendable	34,825	12,936
Unassigned	4,598,342	4,451,617
Total fund balance	4,633,167	4,464,553
Total liabilities, deferred inflows of resources, and fund balance	\$6,189,318	\$5,643,323

COMPARATIVE STATEMENT OF REVENUE, EXPENDITURES AND

CHANGES IN FUND BALANCE

GENERAL FUND

For The Year Ended December 31, 2019

With Comparative Totals For The Year Ended December 31, 2018

Statement	10

	2019	2018
Revenues:		_
General property taxes	\$2,576,244	\$2,564,734
Intergovernmental - grants	56,860	33,785
Stormwater impact payment	344,782	38,660
Investment income	107,747	76,735
Permit escrow fees	15,180	10,500
Refunds and reimbursements	33,953	8,468
Other	13,742	13,620
Total revenues	3,148,508	2,746,502
Expenditures:		
Current:		
General government	2,195,910	1,934,950
Programs	716,715	634,467
Capital outlay	67,269_	42,437
Total expenditures	2,979,894	2,611,854
Revenues over expenditures	168,614	134,648
Fund balance - January 1	4,464,553	4,329,905
Fund balance - December 31	\$4,633,167	\$4,464,553

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**OTHER INFORMATION - UNAUDITED** 

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	2010/20		2010/10		2017/10		2016/17	
	2019/20		2018/19		2017/18		2016/17	
	Tax Capacity		Tax Capacity		Tax Capacity		Tax Capacity	
m 11 1 2	Values		Values		Values		Values	
Taxable valuations:							***	
Washington County	\$35,312,865	**	\$38,883,443		\$35,953,519		\$33,577,746	
Ramsey County	162,368,516	**	153,459,180		142,027,646		131,503,926	
T-4-1	¢107 (01 201		¢102 242 <i>(</i> 22		¢177.001.1 <i>(5</i>		¢1.65.001.673	
Total	\$197,681,381		\$192,342,623		\$177,981,165		\$165,081,672	
Tax levies extended: Extended in year	2019	)	2018		2017		2016	
Collectible in year	2020		2019		2018		2017	
		Tax		Tax		Tax		Tax
		Capacity		Capacity		Capacity		Capacity
	Levy	Rate	Levy	Rate	Levy	Rate	Levy	Rate
General Fund	\$2,499,500	1.300	\$2,609,500	1.357	\$2,562,550	1.453	\$3,121,500	1.934
Debt levy	92,611	.048	399,113	.208	448,951	.255	238,977	.148
CIB Fund	4,211,885	2.190	3,754,885	1.952	3,859,885	2.189	3,205,383	1.985
Total	\$6,803,996	3.538	\$6,763,498	3.538	\$6,871,386	3.897	\$6,565,860	4.067

 $<sup>\</sup>boldsymbol{**}$  - Based on the 2020 proposed value, final value was not available.

#### RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

CIB FUND - UNAUDITED

SCHEDULE OF FINANCIAL ACTIVITY FROM INCEPTION

			Expenditures	
	CIB		•	
Project	Year	Prior Years	2019	Total
Completed projects:				
Subtotal - completed projects	1987-2013	\$30,056,825	\$ -	\$30,056,825
Projects recently closed:				
519 - District Office Retrofit	2015	115,836	25,763	141,599
549 - Beltline/Battle Creek	2016	3,867,900	-	3,867,900
550 - Frost/Kennard Project	2016	403,950	-	403,950
551 - Markham Pond Project	2016	461,272	5,842	467,114
554 - Willow Pond Project	2018	444,537	(259)	444,278
Current CIB projects:				
516 - Project Maintenance and Repair	1992-2018	10,336,740	1,072,788	11,409,528
529 - BMP Incentive Grant Program	2007-2018	3,927,886	911,526	4,839,412
528 - Faith Based Volume Reduction	2013	425,554	-	425,554
531 - Volume Reduction Opportunity Fund	2014	-	-	-
518 - School/Commercial Site Retrofit	2015	1,080,615	1,244,485	2,325,100
520 - Flood Damage	2015	594,630	334,528	929,158
553 - Wakefield Project	2017	52,493	780,937	833,430
Subtotal		21,711,413	4,375,610	26,087,023
580 - CIB contingency account		266,879		266,879

Revenue			Revenue			Revenue
Prior Years	2019 CIB	Investment	Transfers/	Grant/Project	Total	Over/(Under)
Revenue	Levy	Income	Reallocation	Reimbursement	Revenue	Expenditures
\$30,097,208	\$ -	\$ -	\$ -	\$ -	\$30,097,208	\$40,383
148,641	-	-	(7,042)	-	141,599	-
4,731,574	-	-	(863,674)	-	3,867,900	-
473,967	-	-	(70,017)	-	403,950	-
571,651	-	-	(75,678)	4,791	500,764	33,650
399,949	-	-	-	-	399,949	(44,329
11,288,703	1,105,727	-	-	175,457	12,569,887	1,160,359
4,118,255	617,035	-	-	-	4,735,290	(104,122
624,337	617,035	-	-	-	1,241,372	815,81
1,484,215	-	-	-	-	1,484,215	1,484,21
2,075,340	197,451	-	-	-	2,272,791	(52,309
2,418,548	977,383	-	-	99,047	3,494,978	2,565,820
1,101,779	-	-	-	-	1,101,779	268,349
29,436,959	3,514,631	0	(1,016,411)	279,295	32,214,474	6,127,45
825,481		150,639	152,737		1,128,857	861,978
				Fund balance - Decemb	ber 31, 2019	\$7,029,812

### RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

COMBINED SCHEDULE OF INDEBTEDNESS - UNAUDITED December 31,2019

	Dated	Final Due Date	Net Interest Rate
Bonded indebtedness:			
General Obligation Debt:			
G.O. Bonds of 2012 - PFA Bond	5/5/2012	8/20/2027	1.70%
Refunding Certificates of Participation, Series 2012B	12/5/2012	2/1/2020	1.22%
G.O. Drainage Bonds of 2016A	11/15/2016	2/1/2032	2.09%
Total bonded indebtedness			

Unamortized bond premiums Compensated absences

Total indebtedness

Authorized		Outstanding	Due in 2020		
and Issued	Retired	12/31/19	Principal	Interest	
\$1,177,217	\$492,217	\$685,000	\$81,000	\$11,611	
1,230,000	1,110,000	120,000	120,000	990	
3,860,000	435,000	3,425,000	235,000	69,813	
6,267,217	2,037,217	4,230,000	436,000	82,414	
		63,567	-	-	
		99,563	96,798		
\$6,267,217	\$2,037,217	\$4,393,130	\$532,798	\$82,414	

### RAMSEY-WASHINGTON METRO WATERSHED DISTRICT

DEFERRED TAX LEVIES - PER BOARD RESOLUTIONS - UNAUDITED December 31, 2019

Exhibit 4

Year of Levy/ Collection	G.O. Drainage Bonds of 2016A	Total
2019/2020	\$322,836	\$322,836
2020/2021	317,796	317,796
2021/2022	318,006	318,006
2022/2023	318,111	318,111
2023/2024	318,111	318,111
2024/2025	318,006	318,006
2025/2026	323,046	323,046
2026/2027	322,626	322,626
2027/2028	322,101	322,101
2028/2029	321,471	321,471
2029/2030	319,988	319,988
2030/2031	322,875	322,875
Totals	\$3,844,973	\$3,844,973

**OTHER REQUIRED REPORTS** 

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#### REPORT ON INTERNAL CONTROL

To the Honorable Managers and Management of the Ramsey-Washington Metro Watershed District Little Canada, Minnesota

In planning and performing our audit of the financial statements of the governmental activities and each major fund of the Ramsey-Washington Metro Watershed District as of and for the year ended December 31, 2019, in accordance with auditing standards generally accepted in the United States of America, we considered the Ramsey-Washington Metro Watershed District's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the Ramsey-Washington Metro Watershed District's internal control. Accordingly, we do not express an opinion on the effectiveness of the Ramsey-Washington Metro Watershed District's internal control.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or combination of deficiencies in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis.

Our consideration of internal control was for the limited purpose described in the first paragraph and was not designed to identify all deficiencies in internal control that might be material weaknesses. Given these limitations, during our audit, we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

This communication is intended solely for the information and use of management, the Ramsey-Washington Metro Watershed District's Board of Managers, and others within the District, and is not intended to be, and should not be, used by anyone other than these specified parties.

REDPATH AND COMPANY, LTD.

Redpath and Company, 4td.

St. Paul. Minnesota

April 7, 2020

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#### MINNESOTA LEGAL COMPLIANCE REPORT

To the Honorable Managers of the Ramsey-Washington Metro Watershed District Little Canada, Minnesota

We have audited, in accordance with auditing standards generally accepted in the United States of America, the financial statements of the governmental activities and each major fund of the Ramsey-Washington Metro Watershed District as of and for the year ended December 31, 2019, and the related notes to the financial statements which collectively comprise the Ramsey-Washington Metro Watershed District's basic financial statements, and have issued our report thereon dated April 7, 2020.

In connection with our audit, nothing came to our attention that caused us to believe that the Ramsey-Washington Metro Watershed District failed to comply with the provisions of the contracting and bidding, deposits and investments, conflicts of interest, claims and disbursements, and miscellaneous provisions sections of the Minnesota Legal Compliance Audit Guide for Other Political Subdivisions, promulgated by the State Auditor pursuant to Minn. Stat. § 6.65, insofar as they relate to accounting matters. However, our audit was not directed primarily toward obtaining knowledge of such noncompliance. Accordingly, had we performed additional procedures, other matters may have come to our attention regarding the Ramsey-Washington Metro Watershed District's noncompliance with the above referenced provisions, insofar as they relate to accounting matters.

This report is intended solely for the information and use of those charged with governance and management of the Ramsey-Washington Metro Watershed District and the State Auditor and is not intended to be, and should not be, used by anyone other than these specified parties.

REDPATH AND COMPANY, LTD.

Redpath and Company, Ltd.

St. Paul, Minnesota

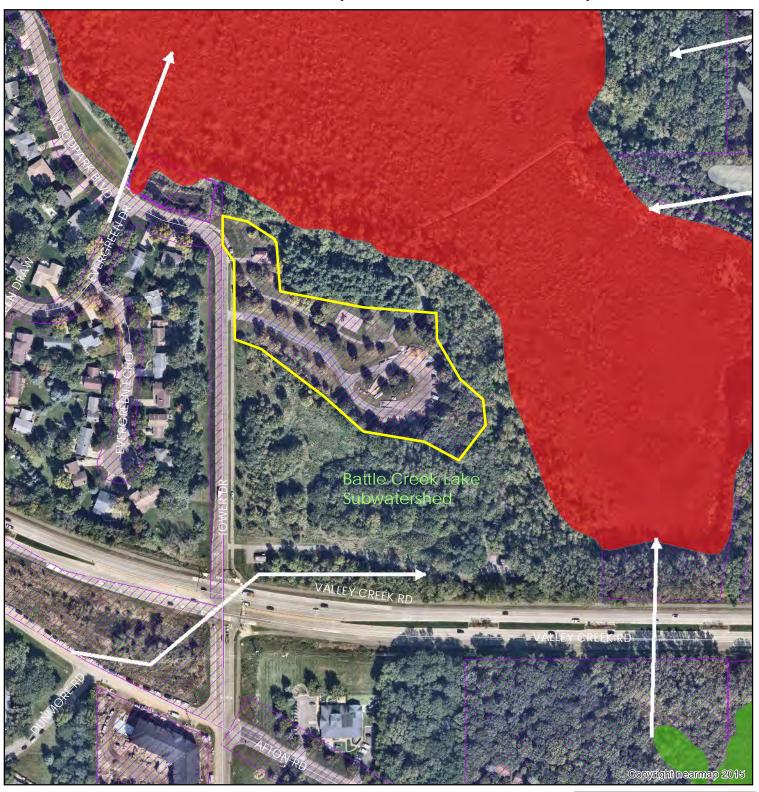
April 7, 2020

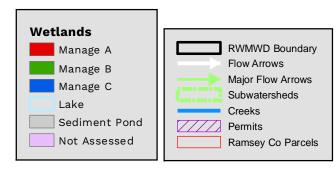
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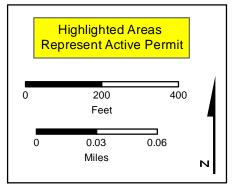
# Permit Application Coversheet

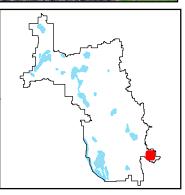
Date May 06, 2020
Project Name Woodbury PFAS Treatment Facility Project Number 20-17
Applicant Name Jim Westerman, City of Woodbury
Type of Development Industrial
Property Description
This project is located off Tower Drive adjacent to the Tamarack Swamp in the City of Woodbury. A temporary Erosion and Sediment Control permit was issued on 2/21/2020 to accommodate the project schedule. Construction is currently underway and has been regularly inspected by District staff. The applicant is proposing to complete a drinking water treatment facility in response to a municipal state of emergency for well contamination with the chemical group PFAS (per- and polyfluoroalkyl substances). Two filtration basins are proposed to meet stormwater treatment requirements. Filtration is being proposed due to the site's location in a DWSMA (Drinking Water Supply Management Area). Pretreatment will include filter strips and sumps. Impacts to the Tamarack Swamp are not anticipated, however the applicant did receive a wetland utility exemption for construction of a junction box in case there are any unforeseen impacts (#20-05 WCA). Temporarily disturbed areas will be restored.
Watershed District Policies or Standards Involved:
✓ Wetlands
✓ Stormwater Management ☐ Floodplain
Water Quantity Considerations
The proposed stormwater management plan is sufficient to handle the runoff from the site.
Water Quality Considerations
Short Term  The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.
Long Term
The proposed stormwater management plan is sufficient to protect the long term quality of downstream water resources.
Staff Recommendation
Staff recommends approval of this permit with the special provision.
Attachments:
Project Location Map
✓ Project Grading Plan

#20-17 Woodbury PFAS Treatment Facility



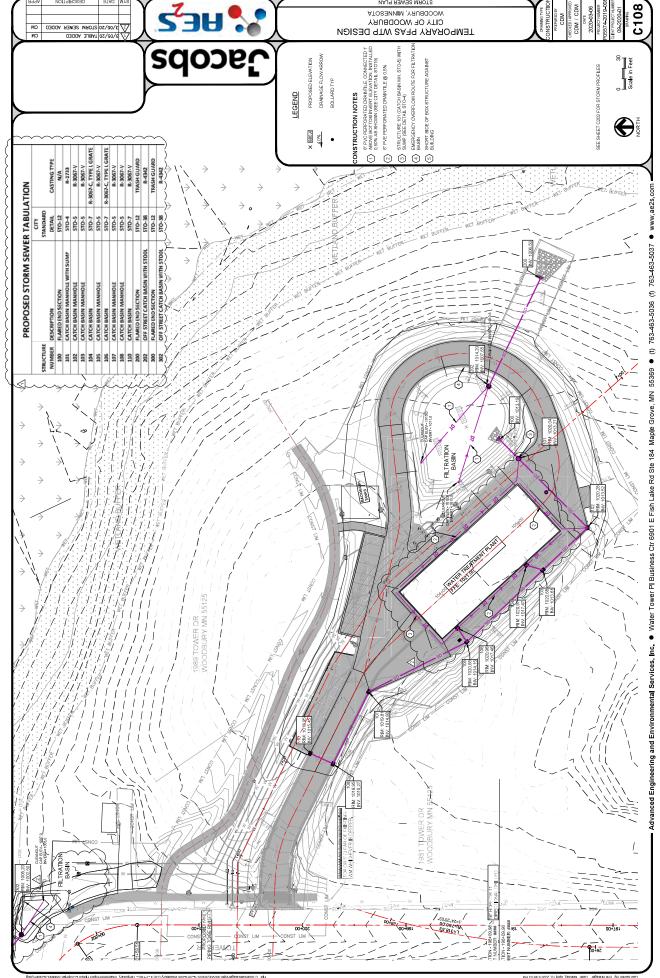






## Special Provisions

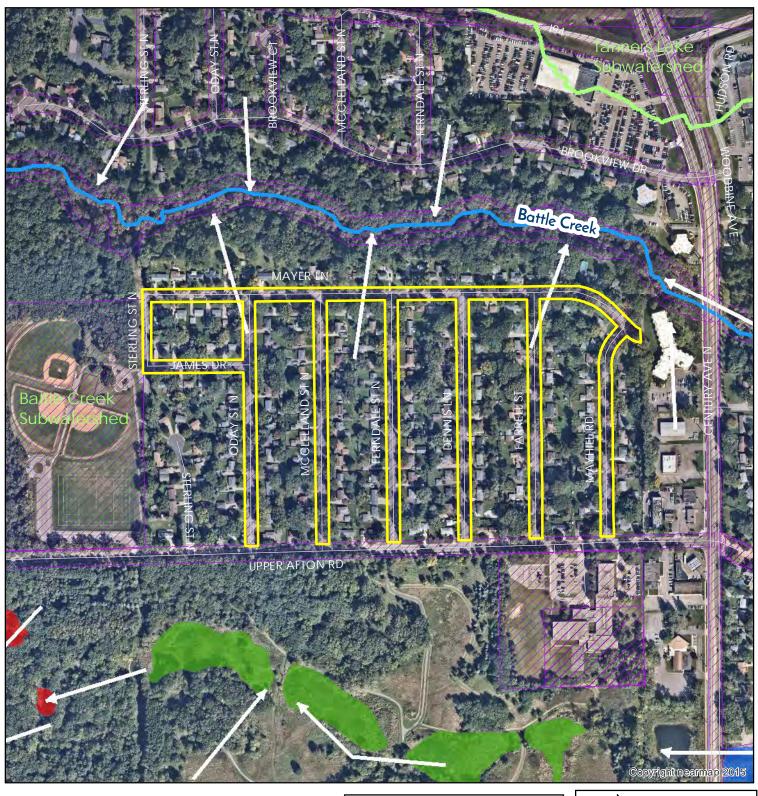
1. The applicant shall add a note to Sheets C106 and C107: "Notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at least 48 hours prior to construction of the stormwater filtration basins."

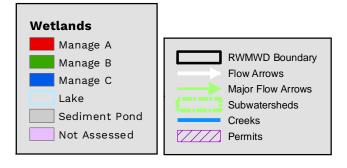


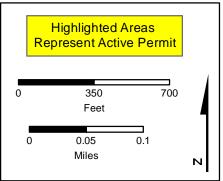
## Permit Application Coversheet

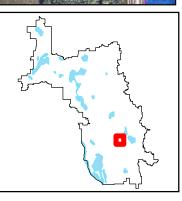
Date May 06, 2020		
Project Name Maplewood Dennis-McClelland SIP	Project Number	20-20
Applicant Name Jon Jarosch, City of Maplewood		
Type of Development Linear		
Property Description		
This project is located in a residential neighborhood between E Road in the City of Maplewood. The applicant is proposing to rewithin project limits. The total site area is 12.6 acres. Two underwill be constructed to partially treat stormwater onsite. The applicant the remaining volume from available banked credits, requirements have been met onsite with the proposed design, affected neighborhood have expressed interest in rainwater galadditional treatment onsite as the project progresses.	econstruct the street erground infiltration oplicant is proposin Rate control and T A number of reside	eet sections in systems ing to SS removal ents in the
Watershed District Policies or Standards Involved:		
☐ Wetlands	Control	
✓ Stormwater Management ☐ Floodplain		
Water Quantity Considerations The proposed stormwater management plan is sufficient to ha	ndle the runoff fro	m the site.
Water Quality Considerations		
Short Term The proposed erosion and sediment control plan is sufficient to resources during construction.	o protect downstre	eam water
Long Term		
The proposed stormwater management plan is sufficient to prodownstream water resources.	otect the long term	n quality of
Staff Recommendation Staff recommends approval of this permit with the special pro	visions.	
Attachments:		
✓ Project Location Map		
☐ Project Grading Plan		

## #20-20 Maplewood Dennis - McClelland SIP









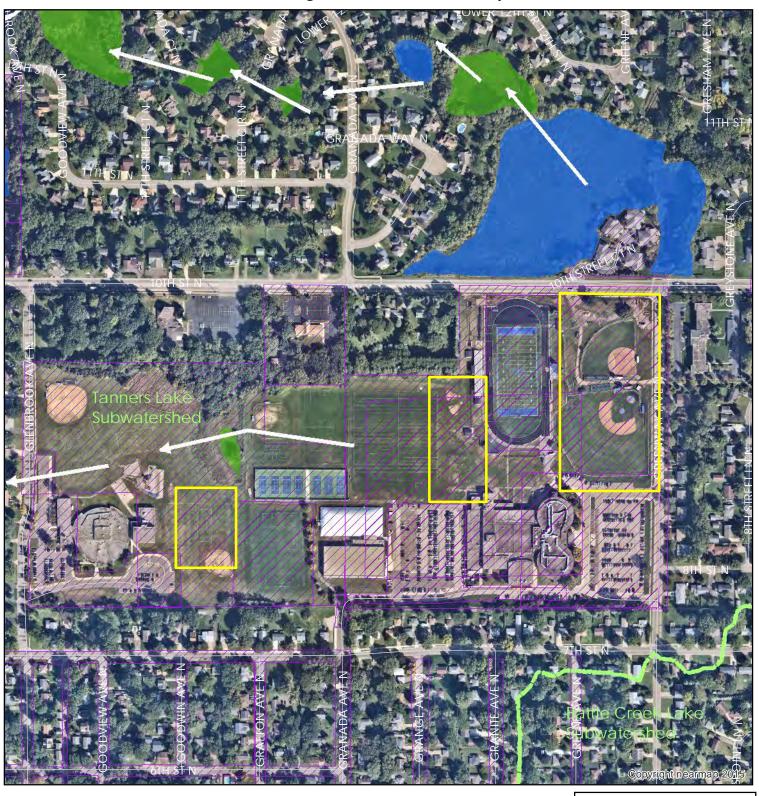
### Special Provisions

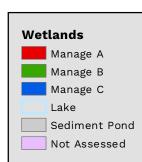
- 1. The applicant shall add notes to the plans:
- A. "Notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 prior to beginning construction activity to schedule an initial SWPPP inspection."
- B. Provide direction on best practices for construction of underground infiltration systems.
- C. "Notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 at least 48 hours prior to installation of underground stormwater systems."
- D. "The specified erosion/sediment control practices are the minimum. Additional practices may be required during the course of construction."
- 2. The applicant shall submit the final, signed plans.
- 3. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
- 4. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES permit coverage for the project.

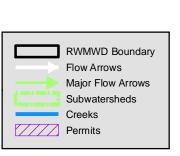
## Permit Application Coversheet

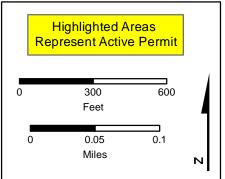
Date May 06, 2020
Project Name Tartan High School Redevelopment Phase I Project Number 20-21
Applicant Name Randy Anderson, ISD 622
Type of Development Institutional
Property Description This project is located at the existing Tartan High School campus off Greenway Avenue in the City of Oakdale. The applicant is proposing to complete Phase I of a larger redevelopment to be completed in the coming years. Phase I includes updating ballfields and a new field event/recreation area. The total site area is 18.7 acres. While the impervious area is minimal for this phase, the applicant is proposing to construct a filtration basin that will bank volume reduction credit for future phases of the project. Filtration is being proposed due to poor soils and high groundwater. Pretreatment will include sumped manholes with SAFL baffles. Subsequent phase(s) of the project will require additional permit application and review to ensure stormwater treatment requirements continue to be met.
Watershed District Policies or Standards Involved:
☐ Wetlands
✓ Stormwater Management □ Floodplain
Water Quantity Considerations There are no water quantity considerations.
Water Quality Considerations Short Term
The proposed erosion and sediment control plan is sufficient to protect downstream water resources during construction.
Long Term
The proposed stormwater management plan is sufficient to protect the long term quality of downstream water resources.
Staff Recommendation Staff recommends approval of this permit with the special provisions.
Attachments:
✓ Project Location Map
✓ Project Grading Plan

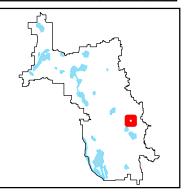
#20-21 Tartan High School Redevelopment Phase I





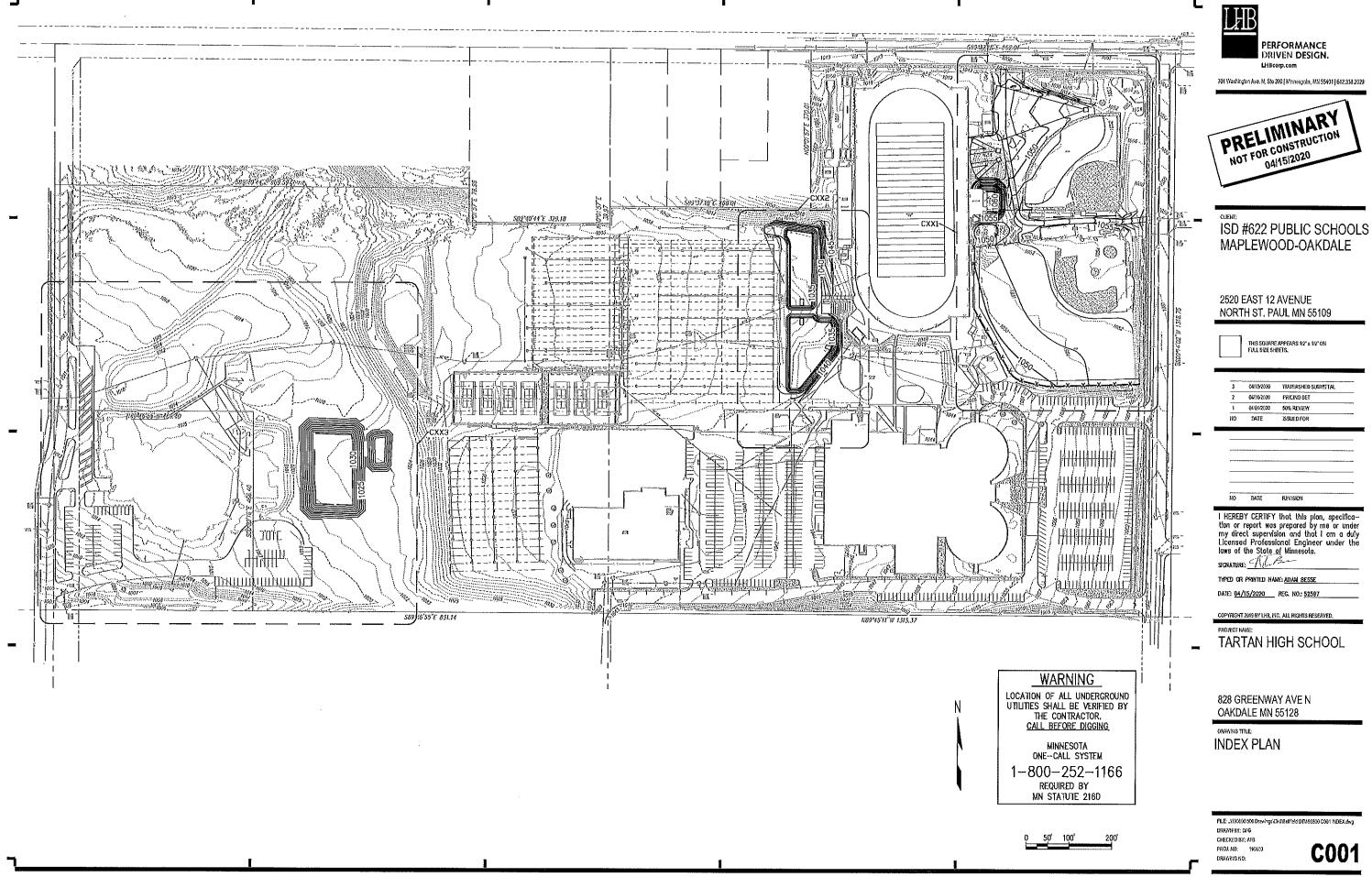






## Special Provisions

- 1. The applicant shall add notes to Sheet C202:
- A. Providing direction to the contractor on best practices for construction of filtration basin
- B. "Notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 at least 48 hours prior to construction of the stormwater filtration basin."
- 2. The applicant shall add notes to Sheet C002:
- A. "Notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 prior to beginning construction activity to schedule an initial SWPPP inspection."
- 3. The applicant shall submit final, signed plans.
- 4. The applicant shall submit signed stormwater maintenance agreement.
- 5. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the Stormwater Pollution Prevention Plan (SWPPP).
- 6. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES permit coverage for the project.





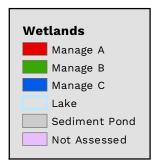
tion or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

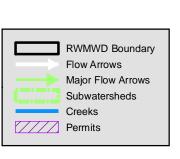
# Permit Application Coversheet

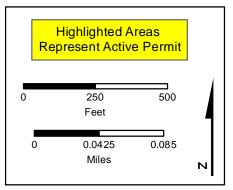
Date May 06, 2020		
Project Name Maplewood Elementary	Project Number	20-22
Applicant Name Mike Boland, ISD 622		
Type of Development Institutional		
Property Description This project is located at the former Maplewood Middle School		
the City of Maplewood. The applicant is proposing to demolish new elementary school, parking lot, and sidewalk areas. The to filtration basins are proposed to meet stormwater treatment reproposed due to poor soils. Pretreatment will include sumps. To constructed with funding from the District will not be impacted continue to treat impervious area.	tal site area is 15.2 equirements. Filtra wo existing rain ga	acres. Two tion is being rdens
Watershed District Policies or Standards Involved:		
☐ Wetlands	Control	
✓ Stormwater Management ☐ Floodplain		
Water Quantity Considerations The proposed stormwater management plan is sufficient to ha	ndle the runoff from	m the site.
Water Quality Considerations Short Term		
The proposed erosion and sediment control plan is sufficient to resources during construction.	protect downstre	am water
Long Term		
The proposed stormwater management plan is sufficient to prodownstream water resources.	otect the long term	quality of
Staff Recommendation Staff recommends approval of this permit with the special pro	visions.	
Attachments:		
Project Location Map		
✓ Project Grading Plan		

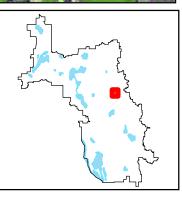
# #20-22 Maplewood Elementary





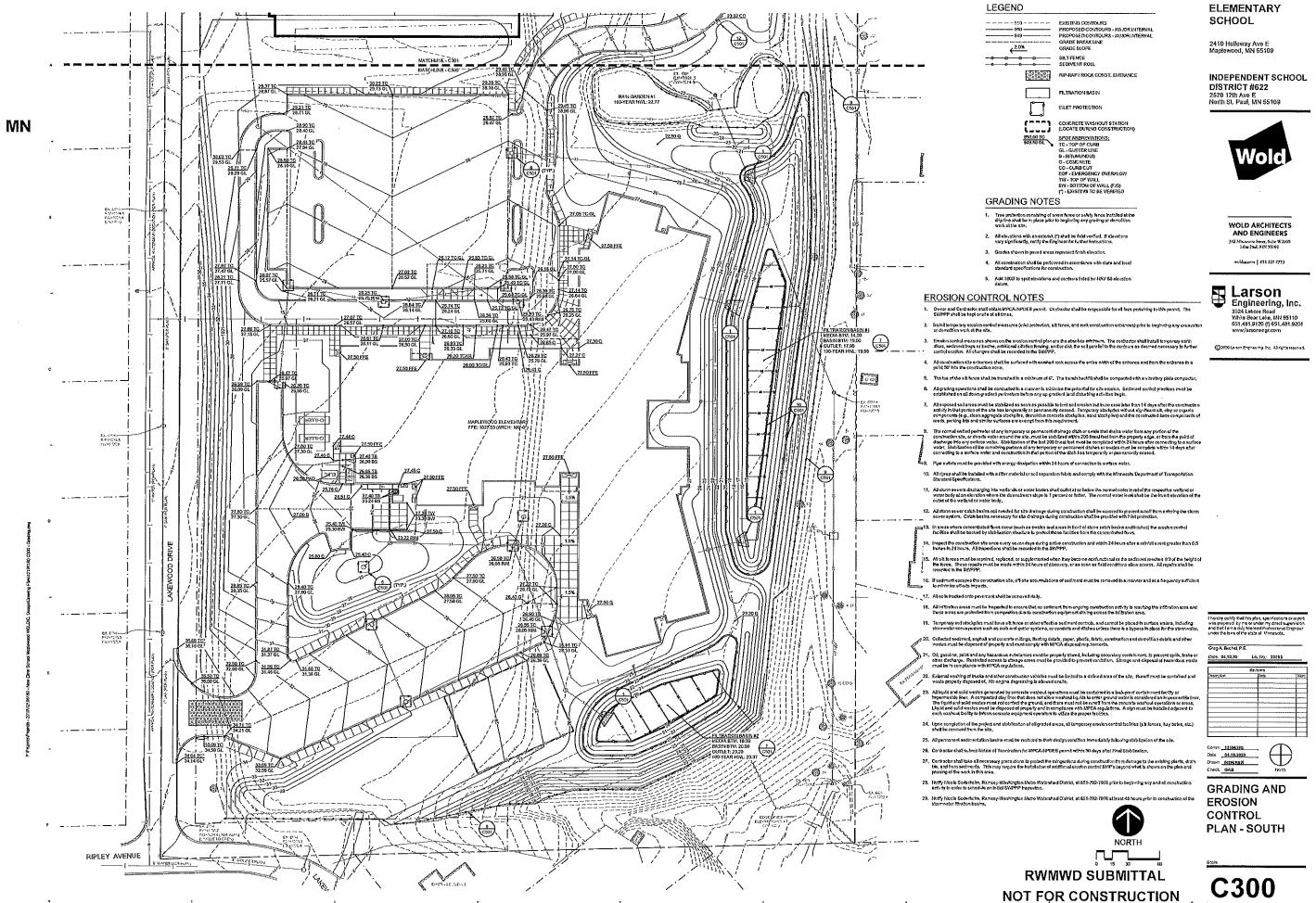






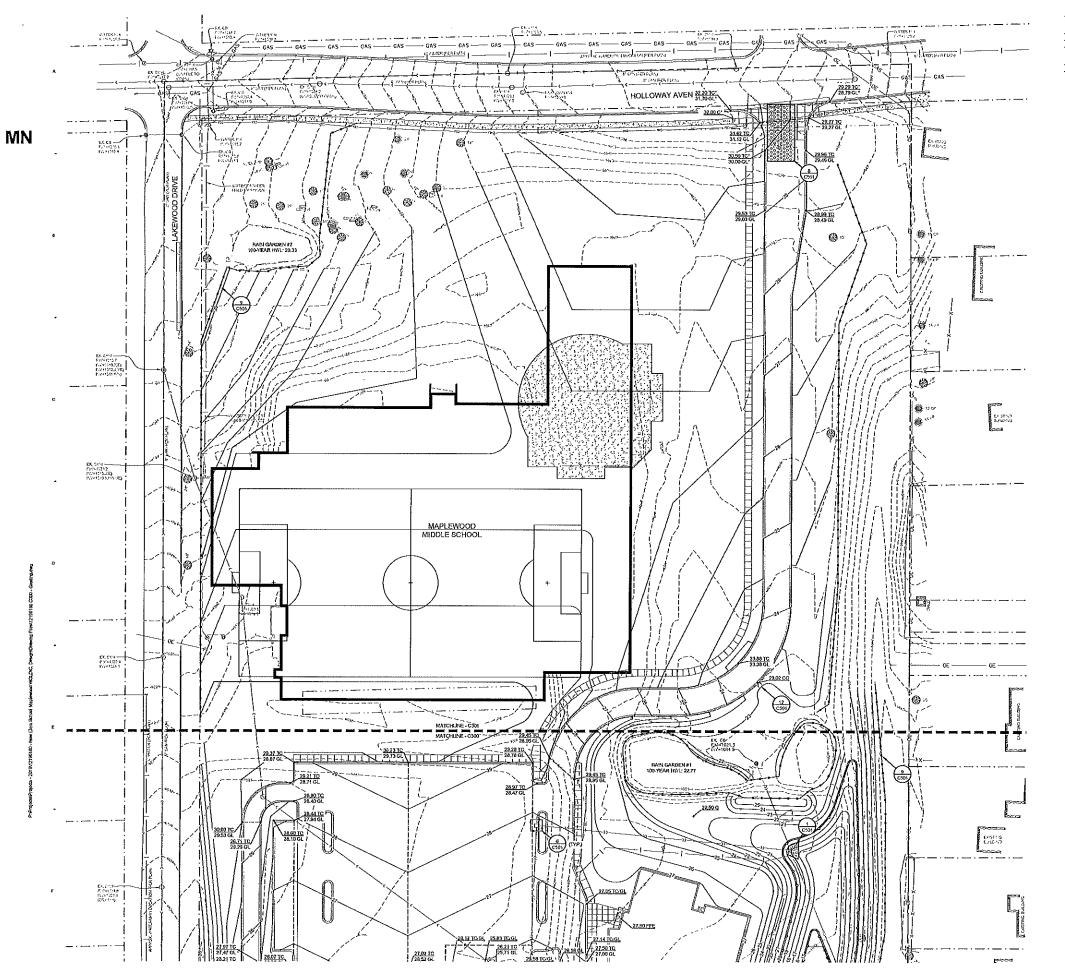
## Special Provisions

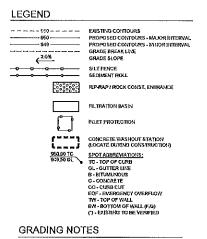
- 1. The applicant shall provide confirmation that the city will allow an increase in peak discharge to the west for the 2, 10- and 100-year events.
- 2. The applicant shall submit the Stormwater Pollution Prevention Plan (SWPPP).
- 3. The applicant shall provide contact information for the trained erosion control coordinator responsible for implementing the SWPPP.
- 4. The applicant shall submit final, signed plans.
- 5. The applicant shall submit a signed stormwater maintenance agreement.
- 6. The applicant shall submit a draft, site-specific BMP Operations & Maintenance Plan. A final, as-built O&M Plan will be required prior to permit closure.
- 7. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES permit coverage for the project.



**NEW MAPLE WOOD** 

C300





1. See wheel C300 for Grading Notes.

EROSION CONTROL NOTES

**NEW MAPLE WOOD ELEMENTARY** SCHOOL

INDEPENDENT SCHOOL DISTRICT #622 2520 12th Ave E North St. Paul, MN 55109

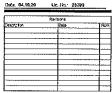


WOLD ARCHITECTS
AND ENGINEERS

volderann | 651 227 7773



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NORTH

**RWMWD SUBMITTAL** 

NOT FOR CONSTRUCTION

(torth GRADING AND

EROSION CONTROL PLAN - NORTH

C301

## **Stewardship Grant Application Summary**

Project Name: Knappmiller Application Number 20-10 CS

**Board Meeting Date:** <u>5/6/2020</u>

**Applicant Name:** Stuart Knappmiller

Residential Commercial/Government

#### **Project Overview:**

This project is located off Orange Ave E and Frank St N just south of Lake Phalen in the City of St. Paul. The applicant is a Master Water Steward proposing to install two rain gardens and a native planting area as his final capstone project. The rain gardens will treat roof and sidewalk runoff from this property as well as the two neighboring properties.

This project is eligible for 100% funding up to \$15,000.

#### BMP type(s):

Native Habitat Restoration(1), Rain Garden(2)

#### **Grant Request:**

\$15,000.00

#### **Recommendation:**

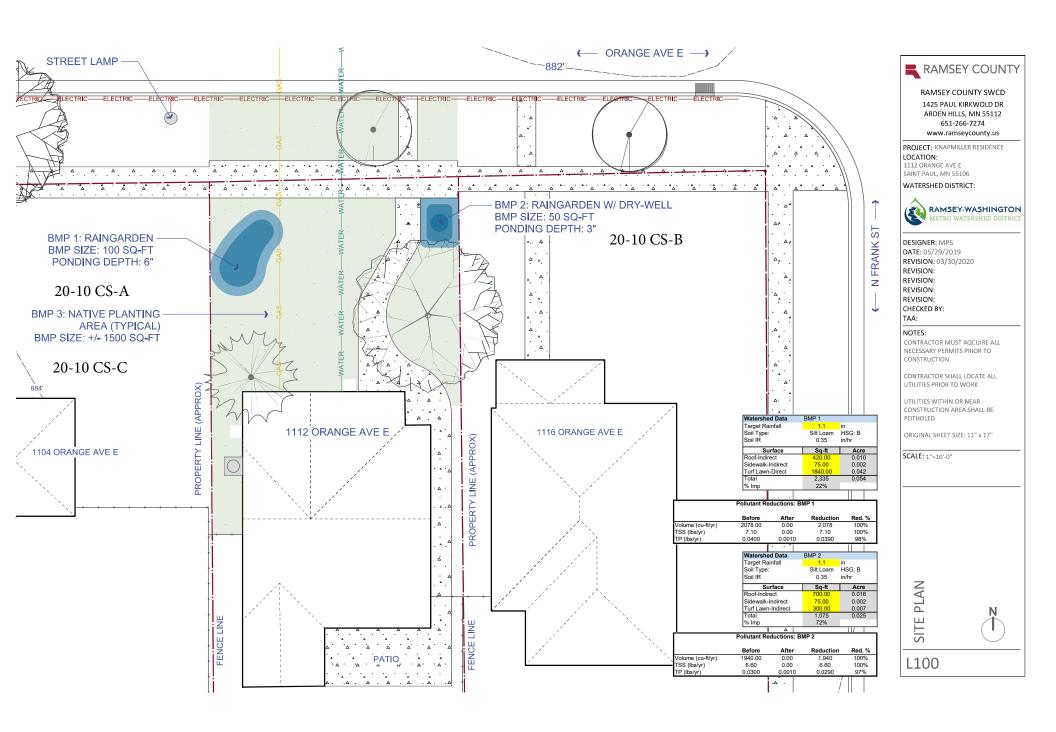
Staff recommends approval of this application.

#### **Subwatershed:**

Lake Phalen

#### **Location Maps:**





## **Stewardship Grant Application Summary**

Project Name: Ramundt Application Number 20-11 CS

**Board Meeting Date:** 5/6/2020

**Applicant Name:** <u>Katherine Ramundt</u>

Residential Commercial/Government

#### **Project Overview:**

This project is located off Lexington Ave and Laurie Rd in the City of Roseville. The applicant is proposing to install a curb cut rain garden to capture and treat street runoff. They are also proposing to remove a large area of turf grass and replace with native plantings to provide habitat for pollinators.

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

## BMP type(s):

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

#### **Grant Request:**

\$10,000.00

#### **Recommendation:**

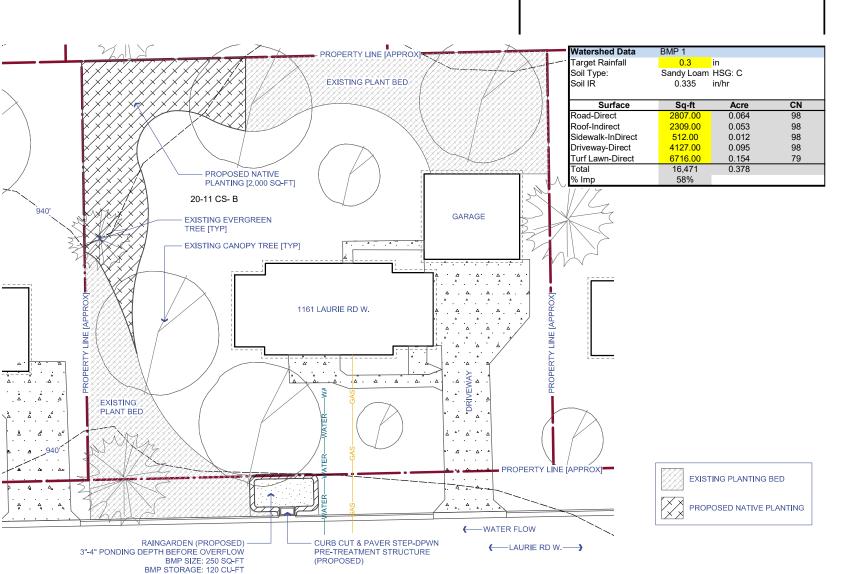
Staff recommends approval of this application.

#### **Subwatershed:**

Bennett Lake

## **Location Maps:**







L100

## **Stewardship Grant Application Summary**

Project Name: <u>Jacobson</u> Application Number <u>20-12 CS</u>

**Board Meeting Date:** <u>5/6/2020</u>

**Applicant Name:** <u>Michele Jacobson</u>

Residential Commercial/Government

#### **Project Overview:**

This project is located off McKnight Rd and Burlington Rd in the City of St. Paul. The applicant owns a two acre property surrounded by woodlands. Buckthorn has been removed from the property, and now the applicant is proposing to install native plants throughout the area. The contractor will use a combination of seed and plugs for the native planting. The applicant plans to have the contractor maintain the site for at least two years after the project is complete.

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

### BMP type(s):

Native Habitat Restoration(1)

#### **Grant Request:**

\$15,000.00

#### **Recommendation:**

Staff recommends approval of this application.

#### **Subwatershed:**

Blufflands

#### **Location Maps:**





## PROPOSED BMPs

<u>6</u>0 FT 30

BMP ID	BMP TYPE	SIZE	COST ESTIMATE	ESTIMATED GRANT AWARD	ESTIMATED LANDOWNER COST	PRIORITY AREA	DESIGN SERVICES AVAILABLE
Α	HABITAT RESTORATION	+/- 0.10 AC	\$4,600	50% / \$2,300	50% / \$2,300	N/A	YES
В	HABITAT RESTORATION	+/- 1.20 AC	\$27,000	50% / \$13,500	50% / \$13,500	N/A	YES

## **LEGEND**



**UPLAND PRAIRIE** 



**UPLAND WOODLAND** 



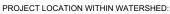
WET-TRANSITIONAL

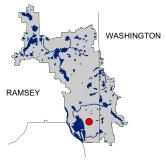


SURFACE WATER (APPROX)

## **NOTES**

1. CONCEPTUAL DRAWING FOR REFERENCE USE ONLY







### STEWARDSHIP GRANT PROGRAM - CONCEPT PLAN

PROPERTY OWNER: JACOBSON RESIDENCE ADDRESS: 598 WIGGINS RD ST PAUL, MN 55106

**DATE:** 03/19/2020 **CLEAN WATER PLAN PROVIDED BY:** RAMSEY-WASHINGTON METRO WATERSHED DISTRICT [RWMWD] & RAMSEY COUNTY SOIL & WATER CONSERVATION DIVISION



### **Stewardship Grant Application Summary**

Project Name: Brenner Filtration Basin Application Number 20-13 CS

**Board Meeting Date:** <u>5/6/2020</u>

**Applicant Name:** Ryan Johnson

Residential Commercial/Government

### **Project Overview:**

This project is located off Victoria St N and Brenner Ave west of Lake in the City of Roseville. The City owns a parcel of land that was purchased in 2011 for a future stormwater project to alleviate local flooding concerns and treat stormwater that drains to Lake Owasso. The City will be doing a mill and overlay of the street in the summer of 2020. As part of the project, they plan to construct an iron enhanced filtration basin and reroute stormwater to the basin. Total estimated cost for the basin is \$152,200. This project is located in a priority subwatershed and is eligible for 100% funding up to \$100,000.

### BMP type(s):

Filtration Basin(1)

### **Grant Request:**

\$100,000.00

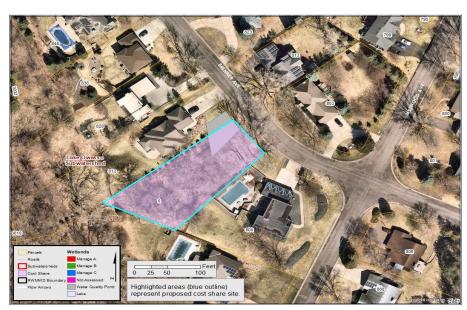
### **Recommendation:**

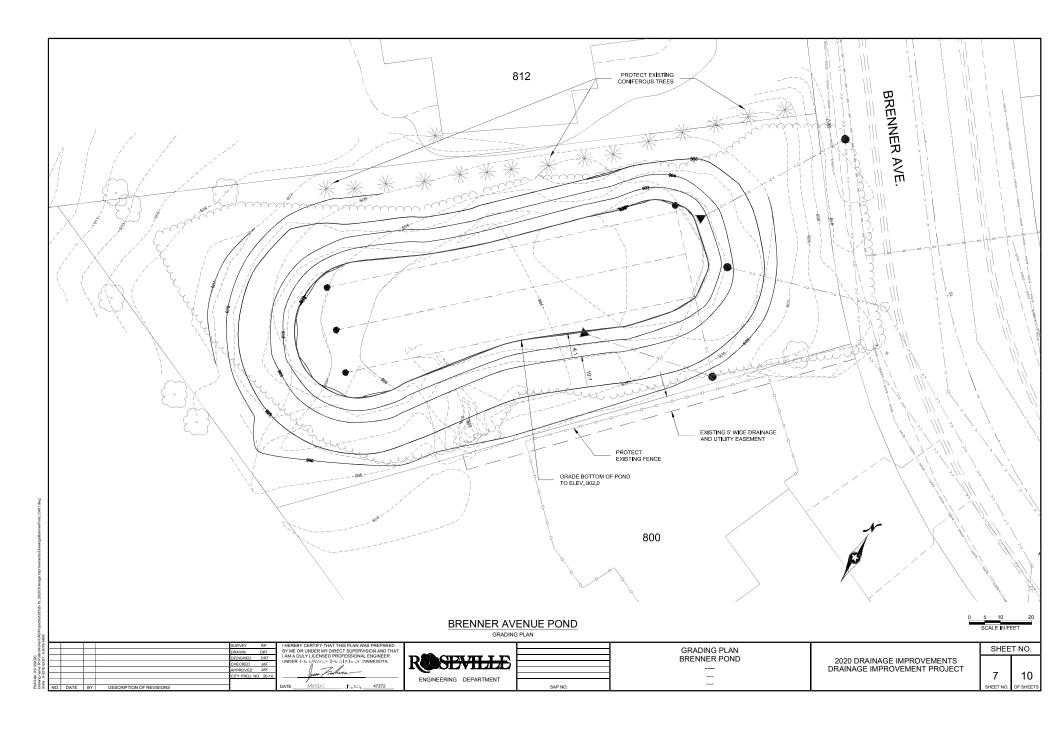
Staff recommends approval of this application.

### **Subwatershed:**

Lake Owasso

### **Location Maps:**





### **Stewardship Grant Application Summary**

Project Name: Carver Lake Parking Lot Application Number 20-14 CS

**Board Meeting Date:** <u>5/6/2020</u>

**Applicant Name:** Kristin Seaman

Residential Commercial/Government

### **Project Overview:**

This project is located at Carver Lake Park and Beach in the City of Woodbury. The City is planning to re-pave the parking lot and access road at Carver Lake Park this summer. They are proposing to install a rain garden to treat parking lot runoff before it enters Carver Lake. They will also be installing native plantings in the medians. About \$8,000 in Clean Water Fund grant dollars will be used toward the cost of the rain garden. This project is in a priority area and is eligible for \$100,000 in funding. The rain garden is eligible for 100% coverage, and the native plantings are eligible for 50% coverage.

### BMP type(s):

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

### **Grant Request:**

\$50,000.00

### **Recommendation:**

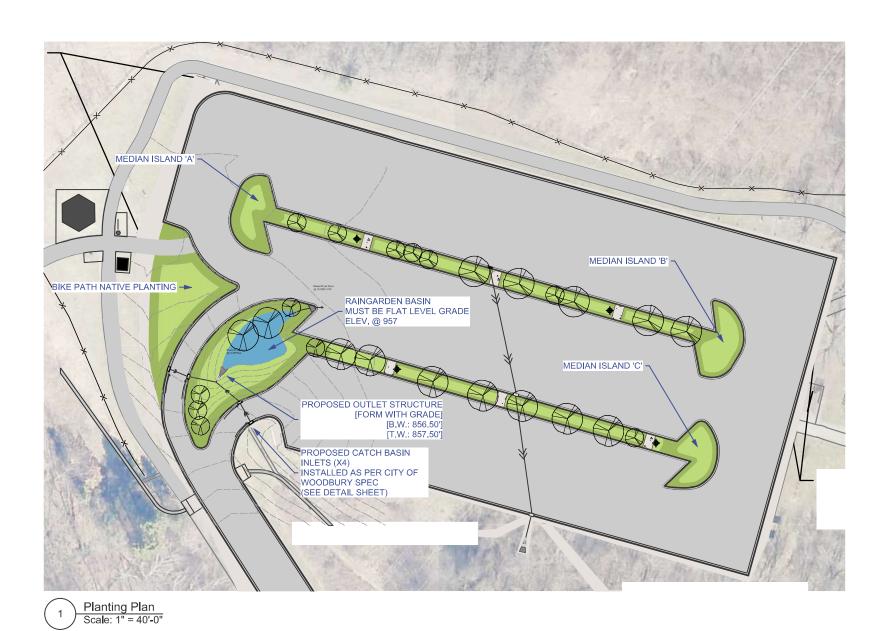
Staff recommends approval of this application.

### **Subwatershed:**

Carver Lake

### **Location Maps:**





Oakdale, MN 55128 (651) 330-8220

Andrew Noval

Concept

Date

Washington Conservation District 455 Hayward Ave N

Carver Lake Park 3175 Century Ave S, Woodbury, MN 55125

Project Manager City of Woodbury

Reviewed

Washington Conservation District

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.

Engineer Name

##### Reg. No.

Project Title

### Carver Lake Park **I**mprovements

### Planting Plan

LOCATION: Washington County, MN

Date 04/10/2020

5

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# Permit Program

\*\*\*\*\*\*

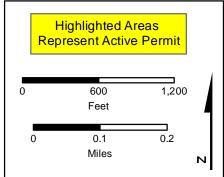
### Permit Application Coversheet

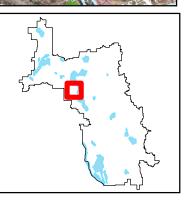
Date May 06, 2020				
Project Name Maplewood County Road B and Arcade Project Number 20-19				
Applicant Name Jon Jarosch, City of Maplewood				
Type of Development Linear				
Property Description  This project is located along County Road B and Arcade Street in the City of Maplewood. The applicant is proposing to reconstruct the street within project limits and construct new trails. The total site area is 9.6 acres. A filtration basin will be constructed off Arcade Street in Maplecrest Park to partially treat stormwater onsite. The applicant is proposing to withdraw the remaining volume from available banked credits. Rate control requirements have been met onsite with the proposed design, however the applicant has submitted a variance request for falling short of the 90% Total Suspended Solids (TSS) removal requirement (Rule C) when directly discharging to a wetland. A second variance request (Rule E) is requested for wetland and buffer impacts. A Wetland Conservation Act (WCA) utility exemption approval was issued on 3/16/2020 (#20-04 WCA). Any temporarily disturbed areas will be restored. The project will involve fill within the floodplain, and compensatory storage is being provided to ensure no net loss of floodplain storage.				
Watershed District Policies or Standards Involved:				
✓ Wetlands ✓ Erosion and Sediment Control				
✓ Stormwater Management				
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 the permit with the special provisions and variance requests (Rule C, E).				
Attachments:				
✓ Project Location Map				
☐ Project Grading Plan				

#20-19 Maplewood County Road B and Arcade









### Special Provisions

- 1. The applicant shall add a note to the plans: "The specified erosion and sediment control practices are the minimum. Additional practices may be required during the course of construction."
- 2. The applicant shall submit erosion control details for inlet protection, construction entrances, and perimeter control.
- 3. The applicant shall submit the final, signed plans.
- 4. The applicant shall submit contact information for the trained erosion control coordinator responsible for implementing the SWPPP.
- 5. The applicant shall submit a copy of the approved Minnesota Pollution Control Agency's NPDES Construction Permit.



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### **MEMORANDUM**

**Date**: April 24<sup>rd</sup>, 2020 **To**: Nicole Soderholm **From**: Tim Olson, P.E.

Subject: Variance Request for the County Road B and Arcade Street Improvements Project

City of Maplewood Project No.: N15.119374

The City of Maplewood hereby requests a variance of the Rule C Stormwater Management – (d) Water Quality requirement from the Ramsey Washington Metro Watershed District.

### Introduction:

The City of Maplewood has approved the Street Improvement project which consists of the following project areas:

1) County Road B East: Edgerton Street to Arcade Street

The County Road B East and Arcade Street Improvements project involves the reconstruction of the existing County Road B East corridor from Edgerton Street to Arcade Street. Road widths will remain the same. The existing bituminous curb and gutter will be converted to concrete curb and gutter. A new 8' wide trail will be constructed on the south side of County Road B East from Edgerton Street to Arcade Street. The utility improvements along County Road B East will include select sanitary sewer, watermain, and storm sewer improvements. The County Road B East proposed improvements will create 2.86 acres of new and reconstructed impervious surfaces and disturb approximately 3.64 acres.

2) Arcade Street: Highway 36 bridge to Maplewood Drive (Highway 61)

The County Road B East and Arcade Street Improvements project involves the reconstruction of the existing Arcade Street corridor from the Highway 36 Bridge to Maplewood Drive. Road widths will remain the same except for Arcade Street south of Roselawn Avenue. The existing bituminous curb and gutter will be converted to concrete curb and gutter. A new 5' wide trail will be constructed on the east side of Arcade Street from County Road B East to the Highway 36 Bridge, and on the west side of Arcade Street from County Road B East to Roselawn Avenue East. A filtration basin will be constructed in Maplecrest Park for water quality and rate control requirements. The utility improvements along Arcade Street will include select sanitary sewer, watermain, and storm sewer

Name: County Road B East and Arcade Street Improvements – Variance Request

Date: 04/24/2020

Page: 2

improvements. The Arcade Street proposed improvements will create 4.62 acres of new and reconstructed impervious surfaces and disturb approximately 5.97 acres.

Permits will be required from the MPCA as well as the Ramsey-Washington Metro Watershed District (RWMWD). RWMWD Stormwater Management Standards<sup>1</sup> apply to any land disturbing activity or the development of land one acre or greater or 10,000 square feet adjacent to a water body, unless specifically exempted by Rule C. The County Road B East and Arcade Street Improvements will disturb approximately 9.61 acres, therefore the RWMWD Stormwater Management Standards will apply to this project.

### Alternatives Considered for Avoidance and Minimization of Environmental Impacts

### Non-Feasible Alternatives with No Impact:

- 1. "No-Build" Alternative The "no-build" alternative is not a prudent option for this project. If the reconstruction is not completed, County Road B and Arcade Street will continue to degrade, and safety for pedestrians and vehicles would not be addressed.
- 2. Simple maintenance practices such as a mill and overlay for the entire project corridor are only a short-term remedy and are not sustainable for the long term, as the roadway will continue to erode causing further safety issues. It is more prudent to construct a planned project rather than deal with an emergency situation. In addition, multiple utilities companies will be relocating and replacing infrastructure within the proposed project corridor, making it an opportune time for the City to preform long term street maintenance.

**Feasible Alternative with Impacts**: In order to meet the pedestrian safety and environmental impact reduction goals of the projects, feasible alternatives were developed that minimize impact to the maximum extent practicable.

1. Fully reconstruct the roadway while maintaining existing roadway widths to minimize the amount of disturbance. Reduce the width of the proposed sidewalk along County Road B to 8' and Arcade Street to 5' to reduce the amount of new impervious constructed on the project. This option would address long term road maintenance concerns and provide increased safety for pedestrians and vehicles.

### Rule I: Variances

 According to Rule I, The RWMWD "Board of Managers shall have the power to grant variances from these Rules where they find that extraordinary and unnecessary hardships may result from strict compliance with these Rules; provided that such variances shall not have the effect of nullifying the intent and purpose of these Rules and the overall plan of the District as adopted."

The following describes the potential variance:

<sup>1</sup> District Rules, Ramsey-Washington Metro Watershed District (RWMWD), Stormwater Management Standards, Effective Date June 5, 2019

Name: County Road B East and Arcade Street Improvements – Variance Request

Date: 04/24/2020

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### Rule C: Stormwater Management - (d) Water Quality

### **Hardships**

Two site characteristics have a severe adverse impact the ability to achieve 90% TSS reduction from the disturbed area.

- The narrow nature of the County Road B and Arcade Street corridor make it infeasible to construct an above ground water quality feature large enough to meet the required 90% TSS load. Constructing an underground water quality feature would cause substantial economic burden on the City including construction and long-term operation and maintenance costs. In addition, constructing an underground filtration feature within the roadway corridor faces a magnitude of conflicts with existing and proposed utilities.
- The soil borings onsite indicate low soil permeability, prohibiting infiltration as a viable option.
   The soil borings are attached. The overall footprint of the filtration basin would need to be substantially larger compared to an infiltration BMP due to the difference in treatment effectiveness.

### Considerations

- Project disturbance has been minimized to the maximum extent practicable, while still ensuring the safety of pedestrian and vehicle traffic.
- Two catch basins located immediately adjacent to the wetland located on the east side of arcade street were analyzed as potential locations for sump structures. These locations were determined to not be practical for the installation of sumps based on the following conditions:
  - The top down nature of the catch basin structures increases the potential for sediment resuspension and decreases the overall effectiveness of the sump.
  - The inverts of the structures are located below the NWL of the adjacent wetland. In order to maintain the sump structures, extensive dewatering practices would have to be used to remove any trapped sediment within the sumps.
- With the implementation of the proposed filter basin located in Maplecrest Park, the post construction TSS load into the wetland is less than the present day TSS load.
- Stormwater volume reduction requirements are being met through the use of the City's banked volume credits. These projects have already been paid for and constructed within the RWMWD and are providing both volume and water quality benefits.

Sincerely,

Bolton & Menk, Inc.

Timothy J. Olson, P.E. CFM

Water Resources Project Manager



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### **MEMORANDUM**

**Date**: March 4, 2020

To: Ramsey-Washington Metro Watershed District Board of Managers

From: Kristina Bloomquist, Natural Resources Specialist

Subject: County Road B & Arcade Street Improvements Wetland Buffer Variance Request

City of Maplewood Project No.: N15.119374

The City of Maplewood is proposing improvements to County Road B and Arcade Street. County Road B will be reconstructed from Edgerton Street to Arcade Street, and Arcade Street will be reconstructed from the TH 36 overpass to Maplewood Drive. Sanitary sewer, storm sewer, and water main will also be placed where old and outdated utilities exist. The majority of the existing storm and sanitary sewer utilities will remain in place. As part of the storm water management, an underground filtration basin will be placed within the City park, Maplecrest Park, on the west side of Arcade Street, where the tennis courts were located. An eight-foot bituminous trail will be placed along the south side of County Road B, and a five-foot sidewalk will be placed on the west side of Arcade Street from 500 feet south of TH 36 to Roselawn Avenue East.

There are six locations where storm sewer is proposed to be replaced, which can be seen on Figure 2. Additional inlets with updated inlet styles will be placed, which will fit the proposed curb and gutter better than the existing structures. These improvements will also increase collection efficiency and functionality of the storm sewer. The storm sewer line and flared end at the west end of County Road B, within Wetland 1, will be replaced in-kind and will result in only temporary impacts. The storm sewer inlet found within Wetland 3 will be replaced in-kind and will result in only temporary impacts. Wetland 5 currently has a 15" RCP that outlets into the wetland. This will be removed and replaced with an 18" RCP that will outlet slightly to the south of the previous outlet. A larger RCP will reduce the amount of scour at this location. Temporary impacts will take place in Wetland 5 during construction, and permanent impacts will be a result of the new flared end and riprap. Temporary impacts will be in place no longer than 90 days, per U.S. Army Corps of Engineers requirements.

Temporary impacts will be restored within 90 days of construction. The wetlands disturbed will be reseeded with State Seed Mix 34-171, Wetland Rehabilitation. The buffer areas around the wetlands that were disturbed will be reseeded with State Seed Mix 33-261, Stormwater South and West. The City of Maplewood, or a contractor designated by them, will be responsible for monitoring the buffer for three years following construction, along with other rules, per requirements set by the Ramsey-Washington Metro Watershed District (RWMWD).

Buffers will be in place surrounding Wetlands 2 and 6, which fall under the Manage Class C category, as designated by RWMWD. The buffer will meet requirements for Wetland 6 only, with a minimum buffer of 12.5 feet and an average buffer of 25 feet.

Impact locations can be seen on Figure 3. Temporary impacts total 0.05 acres. Permanent wetland impacts total 41 square feet. Due to corridor constraints and existing locations of utilities, it is not possible to meet buffer requirements and avoid all wetland impacts. A variance is being requested for Wetlands 1, 2, 3, 4, and 5, to be in place for 90 days during construction.

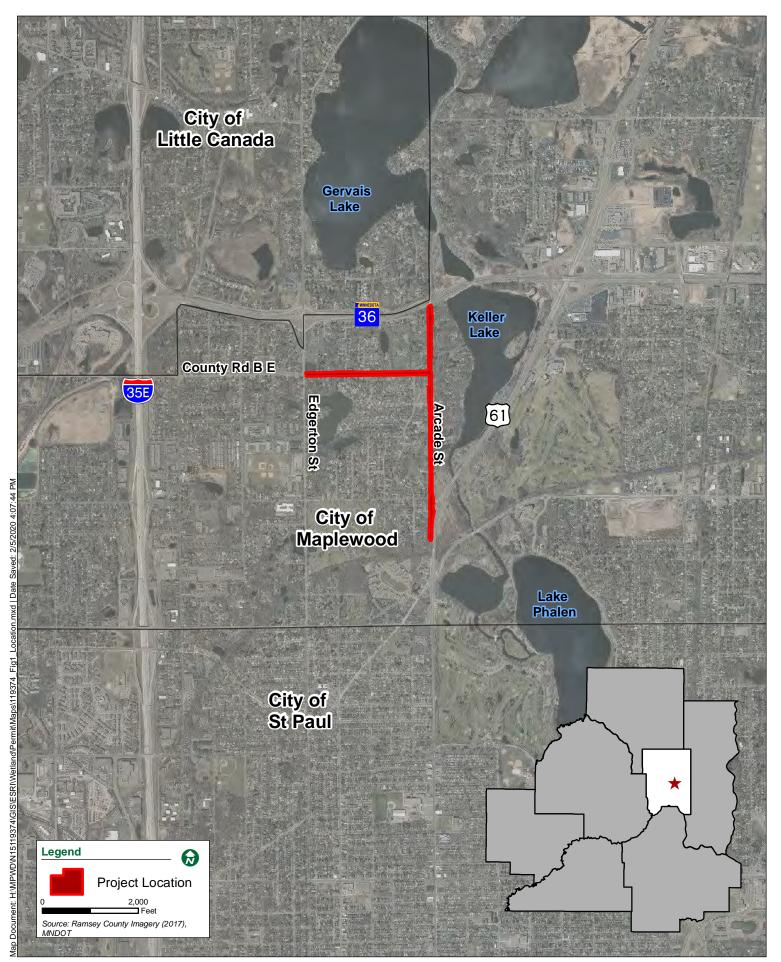
Name: County Road B & Arcade Street Improvements Wetland Buffer Variance Request

Date: March 4, 2020

Page: 2

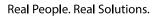
FIGURE 1 – Location Map FIGURE 2 – Project Layout FIGURE 3 – Proposed Impacts

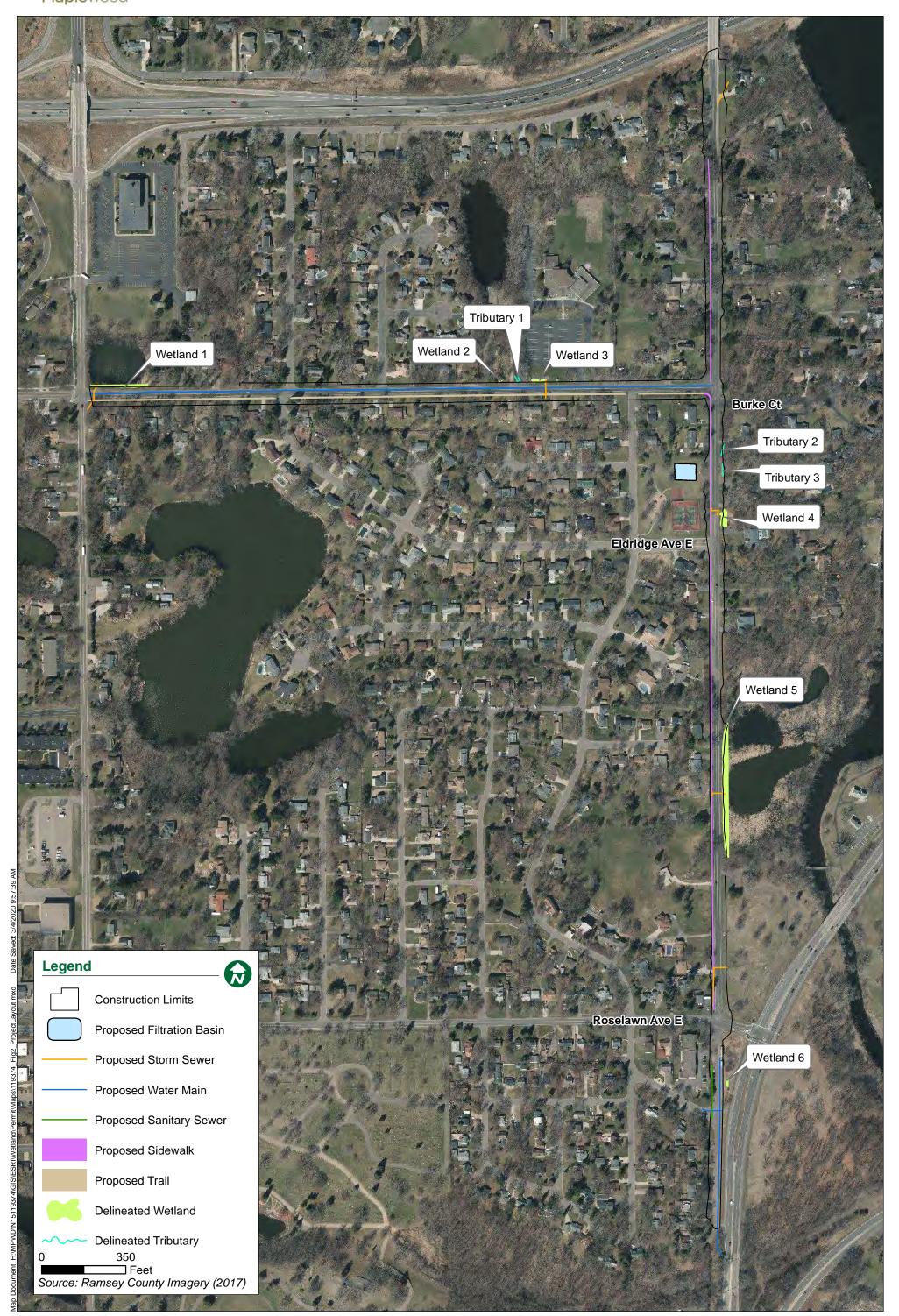




March 2020

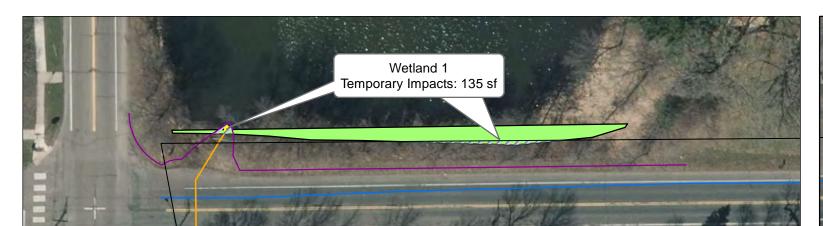


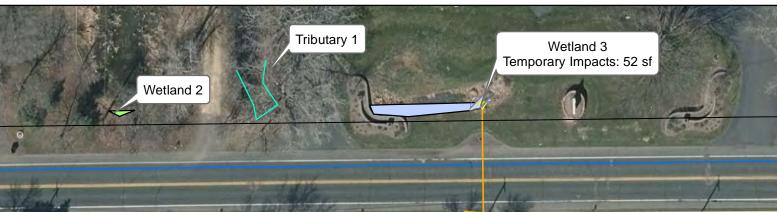




Maplewood

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### **MEMORANDUM**

**Date:** May 6, 2020

**To:** Board of Managers and Staff

**From:** Nicole Soderholm, Permit Coordinator

**Subject:** April Enforcement Action Report

### During April 2020:

Number of Violations:	13
Install/Maintain Perimeter Control	7
Install/Maintain Construction Entrance	1
Sweep Streets	2
Stabilize Exposed Soils	1
Remove Discharged Sediment	2

### **Activities:**

Permitting assistance to private developers and public entities, permit review with Barr Engineering, miscellaneous inquiries, ongoing ESC site inspections and reporting, WCA administration and procedures, pre-construction meetings, permit team meeting, pre-application meeting, Red Rock Rail stakeholder meeting, draft 2019 MS4 Annual Report

### **Project Updates:**

#19-30 White Bear Lake Apartments

Staff conducted a routine inspection on April 21st and found perimeter control to be damaged and missing in several areas; this made the site non-compliant. Staff spoke with onsite contractors over the phone to ensure that repairs were made promptly. Staff received an email on April 22nd from onsite contractors confirming that repairs had been made, with photos of the repairs. Staff will continue to regularly inspect the site to ensure they stay in compliance.

#18-13 Trails Edge Apartments (Maplewood)

Staff conducted a routine inspection on April 23<sup>rd</sup> and found several maintenance items needed. Staff also discovered that perimeter control repairs had not been made as requested since the last visit. Failure to make repairs in a timely manner resulted in a non-compliant report. Staff emailed onsite personnel to ensure that these repairs would be made. Onsite personnel confirmed they will make the repairs. Staff plan to revisit the site the week of April 27<sup>th</sup> to ensure all repairs have been made, and to watch the expansion of the existing filtration basin.

### #20-10 NSP 7th Ave Reconstruction

Staff met with onsite personnel on April 27<sup>th</sup> for an initial erosion control walk-through of the site. Overall the site had all necessary erosion and sediment control BMPs in place, but street sweeping and maintenance of inlet protection was needed. Staff communicated this need to the onsite contractor, as well as detailing it in an e-mailed report. Later in the evening of April 27<sup>th</sup>, staff received an e-mail with many photos detailing the repairs that were made to the site. Staff will continue to conduct regular inspections at this site.

### #20-03 Vadnais Sports Center Indoor Turf Facility

On April 17<sup>th</sup> staff met with onsite contractors to perform an initial erosion control walk-through. Overall the site was well-maintained and all necessary erosion and sediment control BMPs were in place. The site had flagged off the existing underground stormwater system so that heavy equipment cannot drive over it. Staff will continue to meet with onsite contractors to perform SWPPP walk-throughs.

### #19-38 McKnight Road - Anchor Block Commons (North St. Paul)

On April 23<sup>rd</sup> staff attended a socially distanced meeting onsite to discuss the next steps of the project. The Anchor Block Commons portion of the project is temporarily inactive, but the McKnight Road and Anchor Drive portion began on April 27<sup>th</sup>. Staff discussed the erosion and sediment control BMPs that would be needed before work can begin on the road project. Onsite personnel agreed and detailed what they would install. Staff drove by the site on April 27<sup>th</sup> and confirmed that the necessary erosion and sediment control BMPs had been installed. Staff will continue to inspect the site regularly.

### Permits Closed in April 2020:

- 16-27 3M 8th Street Reconstruction
- 16-33 3M Building 229 Parking Ramp Demolition
- 17-05 Precision Tree Site Improvements (Withdrawn)
- 17-07 3M Building 229 Parking Ramp Reconstruction
- 18-05 3M North Parking Lot/11th Street

\*\*\*\*\*\*

## Stewardship Grant Program

\*\*\*\*\*\*

### Stewardship Grant Program Budget Status Update May 6, 2020

Homeowner	Coverage	Number of Projects	Funds Allocated
Habitat Restoration and rain garden w/o hard surface drainage	50% Cost Share \$15,000 Max	3	\$10,000
Rain garden w/hard surface drainage, pervious pavement, green roof	75% Cost Share \$15,000 Max	1	\$6,000
Master Water Steward Project	100% Cost Share \$15,000 Max	1	\$5,800
Shoreland Restoration	100% Cost Share \$15,000 Max	1	\$22,000

Commercial, School, Government, Church, Associations, etc.	Coverage	Number of Projects	Funds Allocated
Habitat Restoration	50% Cost Share \$15,000 Max	0	\$0
Shoreland Restoration (below 100-year flood elevation w/actively eroding banks)	100% Cost Share \$100,000 Max	1	\$200,000
Priority Area Projects	100% Cost Share \$100,000 Max	2	\$200,000
Non-Priority Area Projects	75% Cost Share \$50,000 Max	1	\$50,000
Public Art	50% Cost Share	0	\$0
Aquatic Veg Harvest/LVMP Development	50% Cost Share \$15,000 Max	0	\$0
Maintenance	50% Cost Share \$5,000 Max for 5 Years	28	\$23,800
Consultant Fees			\$23,000
Total Allocated			\$540,600

2020 Stewardship Grant Program Budget		
Budget	\$1,000,000	
Total Funds Allocated	\$540,600	
Total Available Funds	\$459,400	

\*\*\*\*\*\*

### Action Items

\*\*\*\*\*\*

### **Request for Board Action**

Board Meeting Date: May 6, 2020 Agenda Item No.: 7A

**Preparer:** Tina Carstens, Administrator

**Item Description:** Twin Lake Outlet Action Items

### **Background:**

There are a number of items related to the Twin Lake Outlet project for your discussion and action at the May 6<sup>th</sup> meeting.

- 1. The **Twin Lake Outlet Operation Plan** update memo is attached to this cover sheet. This update describes the changes to the draft operating plan that were made after the discussion of the board at your March 2020 meeting. This item is first for discussion as the direction given on the operation plan changes the permit conditions and variance requests needed.
- 2. Second on the agenda is the **District Permit Application** for discussion and ultimately a decision by the board. The permit application details are also attached to this cover sheet.
- 3. And third, is a memo requesting the board to **Authorize Staff to Solicit Bids for Construction**. Included in that memo is the engineer's opinion of cost, schedule, and plan sheets.

### **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 well-being.

**Action Item:** Cooperate with appropriate stakeholders to identify, assess, and address potential flooding problems in the District.

### **Staff Recommendation:**

Staff recommends that the Board consider the requests of the Twin Lake Outlet Operation Plan as well as the District Permit Application. In addition, staff recommends approval of the preliminary design, estimated costs, and proposed project schedule, and direct staff to finalize the design and bidding documents and solicit bid proposals.

### **Financial Implications:**

The outlet construction project will be funded through the Flood Risk Reduction Fund where there are sufficient funds available.

### **Board Action Requested:**

Consider the requests of the Twin Lake Outlet Operation Plan as well as the District Permit Application. Approve the preliminary design, estimated costs, and proposed project schedule, and direct staff to finalize the design and bidding documents and solicit bid proposals.

### Memorandum

**To:** Ramsey-Washington Metro Watershed District (RWMWD) Board of Managers **From:** Brandon Barnes, PE, Water Resources Engineer, Erin Anderson-Wenz, PE, Sr Water

Resources Engineer, and Brad Lindaman, PE, RWMWD Engineer

Subject: Twin Lake Outlet Operation Plan Update

**Date:** April 27, 2020 **Project:** 23/62-1349.00

**c:** Tina Carstens, RWMWD Administrator

### **Background**

At the March 2020 board meeting, Barr staff provided an overview of the proposed operation plan for the Twin Lake outlet structure and resulting changes to the 100-year peak water levels downstream of the outlet. During the meeting Managers provided comments related to the proposed operation plan and resulting changes to peak water levels. The following sections summarize:

### **Requested Manager Action**

Approval of the elements in this document for purpose of development of the Twin Lake Outlet Operation Plan.

- 1. Current operation plan and structure design
- 2. Comments provided by the Managers during the March board meeting, and corresponding modifications to the operation plan.
- 3. Changes to downstream water levels as a result of modifications to the operation plan.
- 4. Summary of RWMWD Rule D: Flood Control
- 5. General status update for the project.

### **Current Operation Plan and Structure Design**

The operation plan for the Twin Lake outlet is being evaluated to be consistent with the RWMWD policy listed in Rule D: Flood Control of the District's rule document. The District policy states:

It is the policy of the Board of Managers to:

- a. Encourage water quantity controls to ensure no net increase in the impacts or potential for flooding on or off the site and encourage, where practical, controls to address existing flooding problems
- b. Discourage floodplain filling for new non-river dependent developments.
- c. Only allow floodplain development in a manner that is compatible with the dynamic nature of floodplains.

To be consistent with the District policy, one of the primary objectives of the operation plan is to minimize the potential for increases to the floodplain elevation near North Star Estates, where dozens of homes are within the floodplain and Gervais Lake, where the City and District have developed an Emergency Response Plan during periods of flooding for low homes on the lake. During the March board meeting the Managers provided the following comments, each of which were considered and incorporated into the proposed operation plan. Following is a summary of comments provided and how each has been incorporated into the operation plan.

1. **Direction from Managers:** The outlet should include backflow prevention to stop water from flowing from the MnDOT system back into Twin lake.

From: Brandon Barnes, PE, Water Resources Engineer, Erin Anderson-Wenz, PE, Sr Water Resources Engineer, and

Brad Lindaman, PE, RWMWD Engineer

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- **Staff Response:** A back-flow preventer was included in the feasibility design and has been included in the current design. The configuration of the backflow preventor has changed from a flap gate in the feasibility design, to an inline check valve. This change was made to allow for a drop-down weir, to provide greater flexibility to manage water levels in Twin Lake and to provide greater flexibility if the Managers choose to modify the operation plan in the future.
- 2. **Direction from Managers:** Provide flexibility to change how the operation plan works in the future, especially when the Keller/Phalen outlet structure changes are in place to allow more flow.
  - **Staff Response:** One of our design objectives is to design an outlet that would allow future flexibility without the need for structural modifications if the operation plan was modified in the future. To directly address this request, the manhole has been modified so that a drop-down weir will be mounted on the outlet pipe to allow for modifications for how upstream water levels are managed.
- 3. **Direction from Managers:** As suggested in the presentation slides discussed during the March meeting, consider a lower trigger elevation for opening the gate (lower than 873.5) that involves a passive overflow in case someone can't get out to the outlet to open it during flood stage conditions (water elevations higher than the trigger elevation).
  - **Staff Response:** The outlet includes a drop-down weir. The current operation plan has been updated such that the weir crest would be at 873.5, which allows for a permanent opening above the weir to allow flow out of Twin Lake, even if staff are unable to get to the outlet during a flood event. In addition, the operation plan was revised such that the outlet can be adjusted when Twin Lake elevations reach 872.8. Elevation 872.8 was selected to prevent the low home from being inundated during a 4-day 100-year event.
- 4. **Direction from Managers:** As suggested in the presentation slides, consider a longer window of the "gate open" season.
  - **Staff Response:** The gate open season was extended by one month. The current operation plan allows for the outlet to be open from November 1<sup>st</sup> March 1<sup>st</sup>.
- 5. **Direction from Managers:** Consider other conditions that would allow opening the outlet during the storm season during "dry conditions".
  - **Staff Response:** The current operation plan was modified to include a criterion to open the outlet during the summer if the water surface elevation at the Spoon Lake weir is lower than 858.0.
- 6. **Direction from Managers:** Consider providing future flexibility and perhaps even automation of the controls on the Twin Lake outlet to minimize the amount of time someone has to actually run out to the site to operate the outlet.
  - Staff Response: Updates to the operation plan described above provide flood-risk reduction for structures on Twin Lake, even if staff are unable to respond immediately during a flood-event to operate the structure. Staff have discussed operation of the structure with City staff. Automation is not currently included in the design, to expedite construction of the outlet. However, future modifications to the structure could be readily incorporated to add this functionality in the future.

Following the evaluation of the items listed above, the current design of the structure is shown in Figure 1.

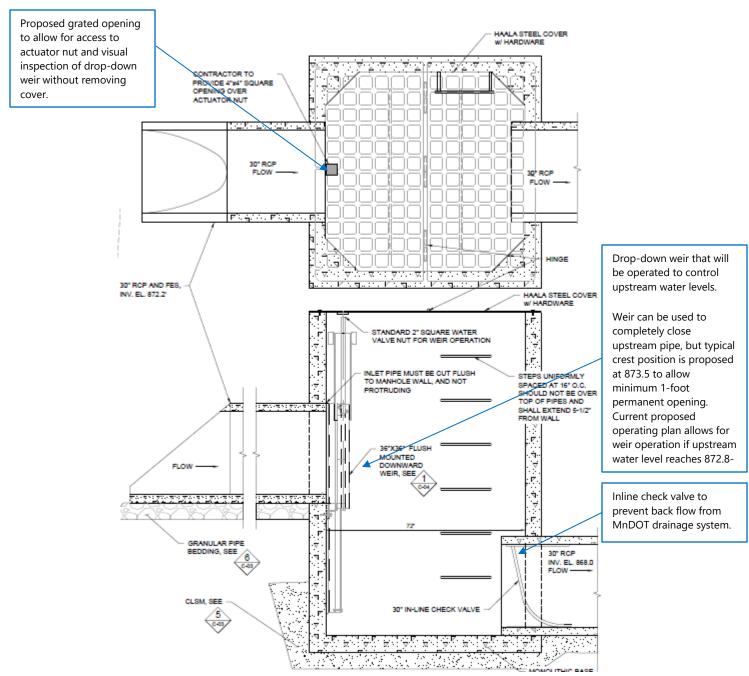
From: Brandon Barnes, PE, Water Resources Engineer, Erin Anderson-Wenz, PE, Sr Water Resources Engineer, and

Brad Lindaman, PE, RWMWD Engineer

Subject: Twin Lake Outlet Operation Plan Update

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Flow is from left to right. Twin Lake is to the left of the image, and the MnDOT pond is to the right. There is a drop inside the structure because the outlet pipe must be 2-feet below the high-pressure petroleum pipeline located within the embankment. The invert elevation of the upstream pipe (left of the figure) is at the elevation of the outlet that was constructed in 1970 as part of the I-694 construction.

Figure 1 Detail of Current Outlet Structure Design

From: Brandon Barnes, PE, Water Resources Engineer, Erin Anderson-Wenz, PE, Sr Water Resources Engineer, and

Brad Lindaman, PE, RWMWD Engineer

Subject: Twin Lake Outlet Operation Plan Update

**Date:** April 27, 2020

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The drop-down weir in the outlet would be operated as follows to reduce the impact that the outlet has on capacity within the MnDOT drainage system, and peak water levels near North Star Estates and on Gervais Lake.

- 1. Time of year: November 1 March 1.
  - o The drop-down weir is open to lower upstream water levels to 872.2.
- 2. Time of year: March 2 October 31
  - o The drop-down weir crest elevation is set to 873.5.
    - If the water level in Twin Lake is above 872.8.
      - The drop-down weir may be adjusted (lowered) to decrease the upstream water level to 872.2. The drop-down weir must be returned (raised) to elevation 873.5 at least 12-hours prior to a forecasted rainfall event greater than 2-inches and would remain at that 873.5 position until the water level in Mn/DOT's Waldo Pond recedes and the water level in Owasso Basin is within 0.4-feet of the outlet. The City of Little Canada will have sole authority/responsibility for these adjustments. The RWMWD will provide the City with technical assistance and data to help the City determine when these adjustments may be appropriate.
    - If the water level in Twin Lake below 872.8.
      - The drop-down weir may be adjusted (lowered) IF the water level in Spoon Lake is below 858.0. The drop-down weir must be returned (raised) to elevation 873.5 at least 12-hours prior to a forecasted rainfall event greater than 2-inches, and would remain at that position until the water level in Waldo Pond recedes, the water level in Owasso Basin is within 0.4-feet of the outlet, and the water level in Spoon Lake is less than 858.0. The City of Little Canada will have sole authority/responsibility for these adjustments. The RWMWD will provide the City with technical assistance and data to help the City determine when these adjustments may be appropriate.
- 3. The outlet could be completely closed at the request of MnDOT or the City of Little Canada if needed to reduce downstream flood-risk.

The proposed outlet has been designed to allow for future changes to the operation plan at the RWMWD Manager's direction.

The operation plan results in no increase to water levels between downstream of Waldo Pond (i.e., the MnDOT stormwater pond) through Gervais Creek. However, because there is additional volume conveyed downstream, there is an increase to the 100-year water level on Gervais Lake. The following table

From: Brandon Barnes, PE, Water Resources Engineer, Erin Anderson-Wenz, PE, Sr Water Resources Engineer, and

Brad Lindaman, PE, RWMWD Engineer

Subject: Twin Lake Outlet Operation Plan Update

**Date:** April 27, 2020

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summarizes the change to the Gervais Lake floodplain elevation, assuming the starting elevation of Gervais Lake is at 858.0

Location	Existing Conditions 100- year Peak Water Surface Elevation	Post-Project Conditions 100-year Peak Water Surface Elevation	Change in 100-year Peak Water Surface Elevation
Owasso Basin	875.81	875.81	0.00
Gervais Lake	861.66	861.68	+0.02

### **Changes to Downstream Water Levels**

During the March Board meeting, changes to downstream water levels near North Star Estates and Gervais Lake were presented. The operation plan mitigated potential increases to water levels near North Star Estates. Changes to water levels at North Star Estates are mitigated because the operation plan includes criteria to raise the drop-down weir to elevation 873.5 a minimum of 12-hours prior to a rainfall event greater than 2-inches. This 12-hour requirement is based on an evaluation of the system using the District's stormwater model and is consistent with the operation plan City staff followed during 2019 while operating emergency pumps.

During the March Board meeting, increases to 100-year peak water levels in Gervais Lake of 0.08-feet were discussed for outlet operations that allow more flow downstream. Following the modifications to the proposed operating plan, the increase to the peak 100-year water level in Gervais Lake is reduced to 0.02-feet. The reduction is due to providing additional storage volume in Twin Lake, so when the MnDOT stormwater pond overtops the embankment, more water can be stored in Twin Lake. However, because the revised operation plan results in more frequent operation of the outlet (i.e., based on direction provided by the Managers, the trigger elevation was lowered from 873.5 to 872.8), there is a greater potential for flow from Twin Lake to coincide with a larger rainfall event.

### **RWMWD Rule D: Flood Control**

The RWMWD Rule D: Flood Control includes regulation that states:

"No person or political subdivision shall alter or fill land below the 100-year flood elevation of any water body, public water, or public water wetland without first obtaining a permit from the District."

Since the proposed outlet will alter land below the 100-year floodplain of the wetland south of Twin Lake, this project will require a District permit.

Rule D requires applicants to submit information related to grading within the 100-year floodplain (Rule D 3.a), and a stormwater management plan showing calculations for estimating runoff, drainage areas, stormwater storage, and flood elevations for the 2-year, 10-year, and 100-year storm events for both existing conditions and post-project conditions (Rule D 4.g).

Staff review permit applications for compliance with criteria and the policy of the Board of Managers listed in each rule. (The Board of Managers policy from Rule D is noted on the first page of this memorandum).

From: Brandon Barnes, PE, Water Resources Engineer, Erin Anderson-Wenz, PE, Sr Water Resources Engineer, and

Brad Lindaman, PE, RWMWD Engineer

Subject: Twin Lake Outlet Operation Plan Update

**Date:** April 27, 2020

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The proposed outlet will reduce the 100-year floodplain elevation in Twin Lake and increase the floodplain elevation in Gervais Lake by 0.02-feet.

### **Status Update**

The proposed outlet will require approvals from several entities. Staff have submitted preliminary plans to each of these entities and are waiting for approvals:

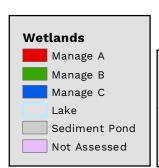
- Tentative Approval Received Xcel Energy. The proposed drainage modification is located
  within the Xcel Energy easement for overhead transmission lines. Staff received email
  confirmation that the proposed modifications meet Xcel requirements. Staff are waiting to receive
  an approval letter from Excel.
- **Approval Received BP Pipelines.** The proposed storm sewer crosses a 10-inch high pressure petroleum pipeline. BP Pipelines provided approval of the proposed outlet design.
- Approval Received City of Little Canada. The proposed modification is located within the City
  of Little Canada, and the District or City of Little Canada will be responsible for operating and
  maintaining the drainage improvements. Preliminary plans were submitted to the City. The City
  confirmed that the proposed outlet would not require a City permit, and that the drop-down weir
  can be operated without purchase of specialized equipment.
- **Private Property Owner.** The proposed outlet will require a permanent drainage easement between the railroad and the MnDOT right-of-way. A permanent access easement will also be required. Staff have been in communication with the Property Owner to obtain required easements for drainage, construction, and site access following construction.
- Comments Received MnDOT. The proposed outlet will be a new permanent connection to the MnDOT drainage system and require a drainage permit. Staff received comments from MnDOT Water Resources. Staff are waiting for confirmation that other MnDOT departments do not have additional comments.
- **RWMWD Permit.** The proposed drainage modifications will require a District permit for Rule D: Flood Control, Rule E: Wetland Management, and Rule F: Erosion and Sediment Control.

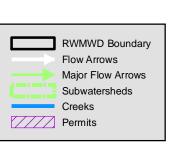
### Permit Application Coversheet

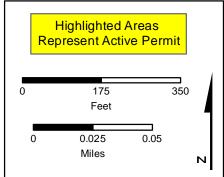
Date May 06, 2020	
Project Name Twin Lake Outlet Project	Project Number 20-18
Applicant Name <u>Tina Carstens, Ramsey-W</u>	ashington Metro Watershed District
Type of Development Drainage	
conveying drainage to the MnDOT right of w grading of a drainage channel and construction structure is proposed to include a backflow purposes. While the project is under an acre- triggering District Rule D. A variance request increase in peak water surface elevation do also included for impacts to 'Wetland A' one Conservation Act (WCA) no loss approval we	t is included with the application due to an wnstream on Gervais Lake. A variance request is site due to excavation of the channel. A Wetland
	volved: sion and Sediment Control odplain
Water Quantity Considerations The proposed project increases the 100-year Gervais Lake.	r peak water surface elevation downstream on
Water Quality Considerations Short Term The proposed erosion and sediment control resources during construction.  Long Term There are no long term water quality considerations.	plan is sufficient to protect downstream water derations.
	vith the special provision and Rule E variance Rule D variance, staff will defer to the Board on
Attachments:  Project Location Map  Project Grading Plan	

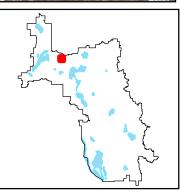
#20-18 Twin Lake Outlet Project





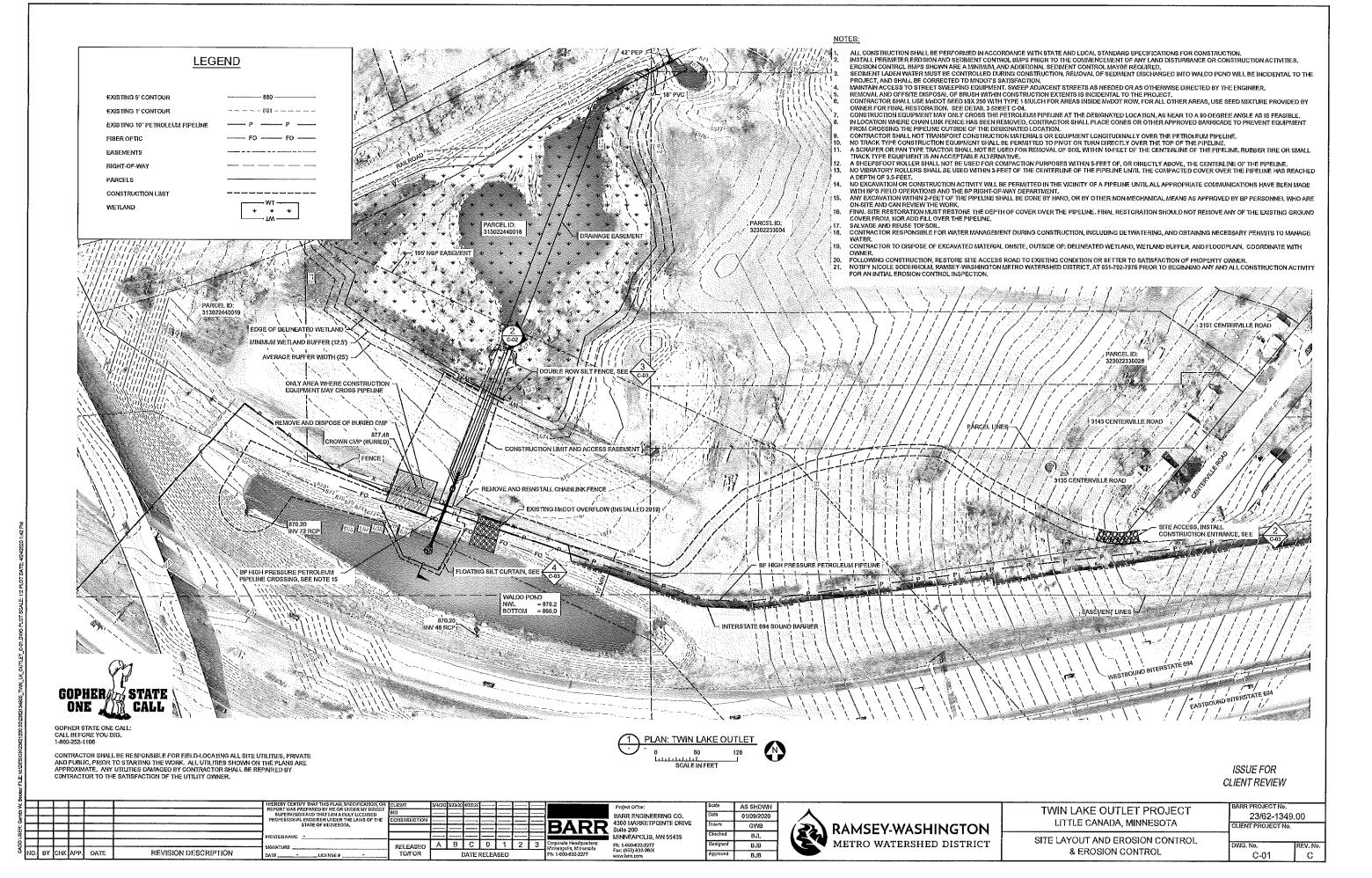






### Special Provisions

1. The applicant shall submit the final, signed plans.



### Memorandum

To: Ramsey-Washington Metro Watershed District (RWMWD) Board of Managers

From: Barr Engineering

Subject: Twin Lake Outlet - Variance Request

Date: April 27, 2020 Project: 23/62-1349.00

c: Tina Carstens, RWMWD Administrator

### **Project Description**

The proposed outlet from Twin Lake would restore drainage patterns to 1970's conditions. In general, the proposed modifications include:

- Grading a drainage channel on the parcel north of the MnDOT right-of-way. The proposed channel is a 4-foot bottom width and 4:1 side slopes. The channel geometry is consistent with historic documentation of County Ditch 16.
- Constructing a storm sewer connection to Waldo Pond. The proposed storm sewer is 30-inch RCP.
- The proposed outlet includes a backflow preventer and drop-down weir, which can be operated to minimize discharge to the MnDOT drainage system prior to rainfall events. Based on input from MnDOT staff, all operable components are located outside of MnDOT right-of-way.

A plan view of proposed modifications is shown in Figure 1.

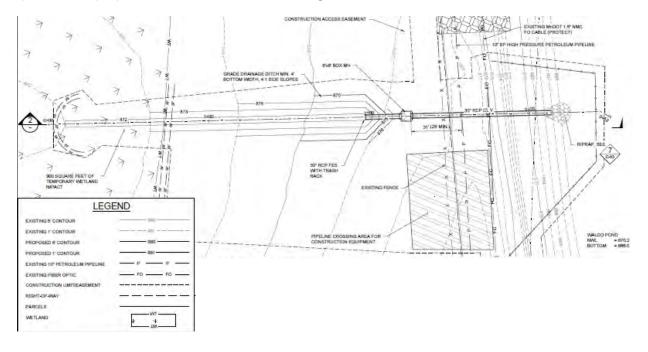


Figure 1. Plan View of Proposed Improvements

From: Barr Engineering

Subject: Twin Lake Outlet - Variance Request

Date: April 27, 2020

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### **Rule D: Flood Control**

The RWMWD policy listed in Rule D states:

It is the policy of the Board of Managers to:

- a. Encourage water quantity controls to ensure no net increase in the impacts or potential for flooding on or off the site and encourage, where practical, controls to address existing flooding problems
- b. Discourage floodplain filling for new non-river dependent developments.
- c. Only allow floodplain development in a manner that is compatible with the dynamic nature of floodplains.

Downstream floodplain impacts were evaluated by comparing post-project conditions (i.e., after the outlet has been constructed) to existing conditions (i.e., no outlet from Twin Lake). Since the proposed project includes discharging flow downstream, an operation plan for the outlet was developed to balance the project goal of reducing flood-risk on Twin Lake while minimizing downstream impacts. The operation plan provides guides how the drop-down weir in the structure should be adjusted based on upstream and downstream water levels. The initial operation plan that is proposed is as follows:

- 1. Time of year: November 1 March 1.
  - o The drop-down weir is open to lower upstream water levels to 872.2.
- 2. Time of year: March 2 October 31
  - o The drop-down weir crest elevation is set to 873.5.
    - If the water level in Twin Lake is above 872.8.
      - The drop-down weir may be adjusted (lowered) to decrease the upstream water level to 872.2. The drop-down weir must be returned (raised) to elevation 873.5 at least 12-hours prior to a forecasted rainfall event greater than 2-inches and would remain at that 873.5 position until the water level in Mn/DOT's Waldo Pond recedes and the water level in Owasso Basin is within 0.4-feet of the outlet. The City of Little Canada will have sole authority/responsibility for these adjustments. The RWMWD will provide the City with technical assistance and data to help the City determine when these adjustments may be appropriate.
    - If the water level in Twin Lake below 872.8.
      - The drop-down weir may be adjusted (lowered) IF the water level in Spoon Lake is below 858.0. The drop-down weir must be returned (raised) to elevation 873.5 at least 12-hours prior to a forecasted rainfall event greater than 2-inches, and would remain at that position until the water level in Waldo Pond recedes, the water level in Owasso Basin is within 0.4-feet of the outlet, and the water level in Spoon Lake is less than 858.0. The City of Little Canada will have sole authority/responsibility for these adjustments. The RWMWD will provide

From: Barr Engineering

Subject: Twin Lake Outlet - Variance Request

Date: April 27, 2020

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the City with technical assistance and data to help the City determine when these adjustments may be appropriate.

3. The outlet could be completely closed at the request of MnDOT or the City of Little Canada if needed to reduce downstream flood-risk.

The proposed outlet has been designed to allow for future changes to the operation plan at the RWMWD Manager's direction.

The operation plan results in no increase to water levels between downstream of Waldo Pond (i.e., the MnDOT stormwater pond) through Gervais Creek. However, because there is additional volume conveyed downstream, there is an increase to the 100-year water level on Gervais Lake. The following table summarizes the change to the Gervais Lake floodplain elevation, assuming the starting elevation of Gervais Lake is at 858.0.

Location	Existing Conditions 100- year Peak Water Surface Elevation	Post-Project Conditions 100-year Peak Water Surface Elevation	Change in 100-year Peak Water Surface Elevation
Owasso Basin	875.81	875.81	0.00
Gervais Lake	861.66	861.68	+0.02

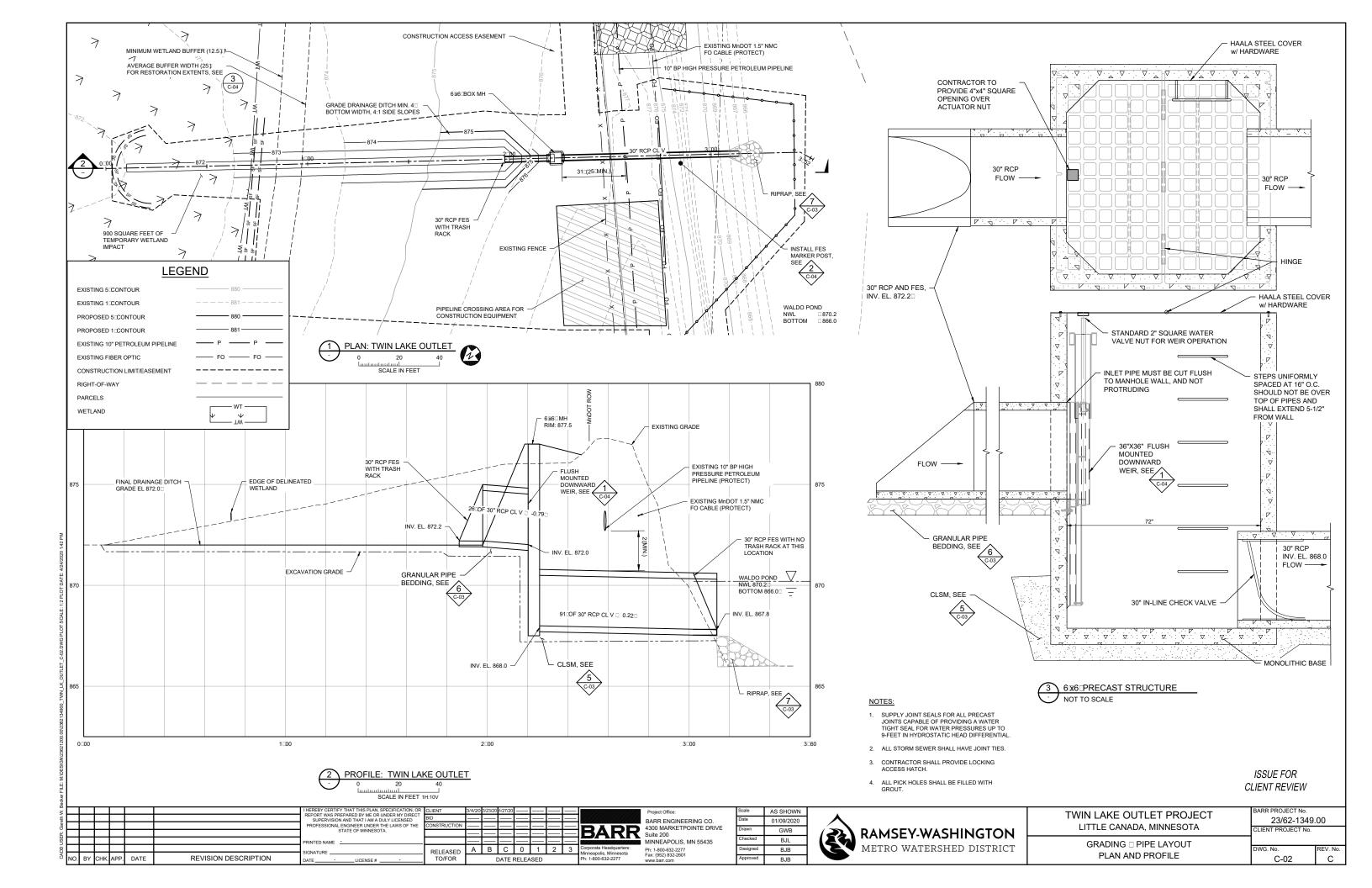
A variance is requested for the proposed increase in downstream peak water levels on Gervais Lake.

### **Rule E: Wetland Management**

The District Rule E Section 3.d.1 lists the no-disturb buffer widths and minimum buffer widths that must be met. The wetland onsite is classified as a managed C wetland which has an average buffer width of 25-feet and minimum buffer width of 12.5-feet. The approximate elevation of the wetland boundary is elevation 873.0.

The District evaluated several options for providing an outlet from this site. Options evaluated are presented in the Feasibility Study (December 2019).

A variance is requested for work within the wetland buffer to grade the drainage ditch to allow positive drainage at elevation 872.2 to the new outlet. The disturbed area will be reseeded with a seed mix selected by District staff following the steps in District Rule E Section 3.d.7.



#### Memorandum

**To:** Ramsey-Washington Metro Watershed District Board of Managers

**From:** Barr Engineering Co.

Subject: Twin Lake Outlet Project – Request Board Authorization to Solicit Bids for Construction

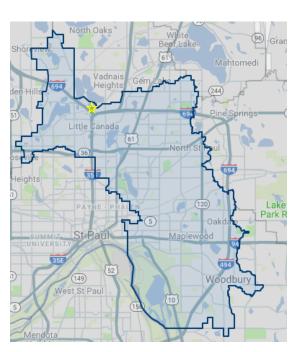
**Date:** April 28, 2020 **Project:** 23/62-1349.00

**c:** Tina Carstens – RWMWD Administrator

During the spring and summer of 2019, record high water levels were measured in Twin Lake. Lake levels exceeded the 100-year water level and the low floor elevation of the lowest habitable structure on Twin Lake (154 Twin Lake Boulevard). In response to high-water levels, the RWMWD Board of Managers authorized the evaluation of alternatives to reduce flood risk to habitable structures.

The District completed a feasibility evaluation of floodrisk reduction alternatives in December 2019. The feasibility study identified a gravity outlet at 872.2 as the most feasible flood-risk mitigation alternative. At the December 2019 board meeting the RWMWD Board of Managers authorized final design and preparation of construction documents for the gravity outlet from Twin Lake.

Construction documents including bidding documents, technical specifications, and construction drawings have been prepared for the proposed Twin Lake outlet. The design of the proposed outlet includes, but not limited to, grading a drainage ditch to near the MnDOT right-of-way, a 30-inch RCP outlet, construction of a control structure which includes a drop-down weir and a back flow preventer, erosion control, and site restoration. Drawings submitted for permitting are attached.



Twin Lake Outlet Project Location

The Engineer's opinion of probable cost presented in the December 2019 feasibility study as well as the opinion of cost based on the construction documents prepared for the Twin Lake Outlet Project is summarized in Table 1. The estimated construction cost (Row A) is higher than the feasibility study, which is primarily due to modifications to the proposed design to provide greater flexibility in managing flows through the outlet. The change in cost is also a result of additional information obtained related to construction requirements near high-pressure petroleum pipelines obtained after the feasibility study.

**To:** Ramsey-Washington Metro Watershed District Board of Managers

**From:** Barr Engineering Co.

Subject: Twin Lake Outlet Project – Request Board Authorization to Solicit Bids for Construction

**Date:** April 28, 2020

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However, the estimated project cost (Row G/H) is within the estimated accuracy range calculated during the feasibility study.

Table 1. Engineer's Opinion of Probable Cost

Row	Item		bility Study mber 2019)	100% Submittal (April 2020)		
А	ESTIMATED CONSTRUCTION COST	\$	128,000	\$	167,000	
В	PLANNING, ENGINEERING & DESIGN	\$	46,500	<b>ب</b>	CE 000	
С	PERMITTING & REGULATORY APPROVALS	\$	10,000	\$	65,000	
D	CONSTRUCTION MANAGEMENT	\$	13,000	\$	25,000	
E	EASEMENT ACQUISITION	\$	28,000	\$	0	
F	ESTIMATED TOTAL PROJECT COST	\$	225,500	\$	257,000	
G	ESTIMATED ACCURACY RANGE		181,000		257.000	
Н			339,000	\$	257,000	

<sup>\*</sup>Estimated accuracy range for feasibility study is -20% and +50% of the estimated total project cost, rounded up to the nearest thousand dollars.

The opinion of probable cost provided is made on the basis of Barr Engineering's experience and qualifications and represents our best judgment as experienced and qualified professionals familiar with the project. Because we have no control over the cost of labor, materials, equipment or services furnished by others, or over the contractor's methods of determining prices, or over competitive bidding or market conditions, Barr Engineering cannot and does not guarantee that proposals, bids, or actual costs will not vary from the opinion of probable cost presented.

#### **Pending Approvals**

The proposed Twin Lake Outlet Project design has been submitted for review and approval from the following entities:

- 1. **BP Pipelines.** APPROVED. The proposed drainage modification is located within the BP Pipeline easement for a high-pressure petroleum pipeline. Approval was received on April 21, 2020.
- Little Canada. APPROVED. The proposed drainage modifications are located within Little Canada. City staff provided comments and confirmed no City permits were required on March 11, 2020.

<sup>\*</sup> Easement acquisition cost is \$0. Per discussions with property owner, RWMWD is not being asked to pay for drainage easements or access easements.

<sup>\*</sup>RowF = RowA+ RowB + RowC+ RowD + RowE

<sup>\*</sup>Estimate does not include cost to install monitoring equipment, long-term maintenance, or operation.

**To:** Ramsey-Washington Metro Watershed District Board of Managers

**From:** Barr Engineering Co.

Subject: Twin Lake Outlet Project – Request Board Authorization to Solicit Bids for Construction

**Date:** April 28, 2020

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 Xcel Energy. PENDING APPROVAL. The proposed drainage modification is located within the Xcel Energy easement for overhead transmission lines. Information was submitted to Xcel on March 6, 2020. Notification of approval was received on April 16, 2020. Currently waiting on signed approval.

4. **MnDOT. COMMENTS RECEIVED.** The proposed drainage modification includes reestablishing a permeant connection the I-694 drainage system. Information was submitted to MnDOT on March 23, 2020. MnDOT Water Resources were received on April 18, 2020. Staff are addressing MnDOT comments, and waiting for comments from other MnDOT departments.

Staff anticipate having required approvals by the end of May. Staff recommend that the Board of Managers authorize staff to solicit bids for the Twin Lake Outlet modification.

#### **Covid 19 Pandemic Considerations**

In light of the Covid 19 pandemic, staff will only be accepting online electronic bids. Staff will use Quest CDN VirtuBid to collect online bids. Quest CDN is the site that contractors use to download the bid documents, so we don't anticipate that using and online bidding process will affect the number or quality of bids received.

Staff proposed to hold the public bid opening using WebEx. A meeting link for the public bid opening will be provided in the advertisement for bids.

#### **Revisions to Project Specific Insurance Requirements**

The Twin Lake outlet includes excavation near, exposing, constructing a pipe, and backfilling around a high-pressure petroleum pipeline. Staff are recommending that the umbrella coverage for the project is increased by an additional \$1 million. The change to the insurance requirements is not anticipated to significantly increase the number or quality of bids received.

#### Request for Board of Managers

It is requested that the RWMWD Board of Managers authorize Barr Engineering Co. to solicit bids from contractors to construct the Twin Lake Outlet Project as designed and shown on the construction documents. If the Board of Managers authorizes solicitation of bids to construct the Twin Lake Outlet Project, the following tasks would be completed:

- May 6, 2020 Board of Managers authorizes Barr Engineering Co. to solicit bids
- May 11, 2020 Advertise in construction bulletin and local papers
- May 29, 2020 Open bids
- June 3, 2020 Present bid results to the Board

**To:** Ramsey-Washington Metro Watershed District Board of Managers

**From:** Barr Engineering Co.

**Subject:** Twin Lake Outlet Project – Request Board Authorization to Solicit Bids for Construction

**Date:** April 28, 2020

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#### Attachments

Drawings for the Twin Lake Outlet Project

# RAMSEY-WASHINGTON METRO WATERSHED DISTRICT TWIN LAKE OUTLET PROJECT



#### CONTACTS

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WATERSHED ADMINISTRATOR: TINA CARSTENS RAMSEY WASHINGTON METRO WATERSHED DISTRICT PHONE: 651-792-7960

BP DAMAGE PREVENTION SPECIALIST : DEBRA HUBERTY BP PIPELINES PHONE: 651-260-2800 EMAIL: debra.hubert bp.com

MnDOT CONTACT: JASON SWENSON MnDOT MS4 ENGINEER PHONE: 651-234-7539 EMAIL: jason.swenson□ state.mn.us

PROPERTY OWNER FRANK FRATTALONE EMAIL: frankf□ frattalonecompanies.com



#### **DRAWING INDEX**

G-01.... COVER SHEET AND DRAWING INDEX

G-02.... STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

C-01.... SITE LAYOUT AND EROSION CONTROL

C-02.... PIPE PLAN, PROFILE, 

STRUCTURE DETAIL

C-03.... DETAILS

C-04.... DETAILS



GOPHER STATE ONE CALL:

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD-LOCATING ALL SITE UTILITIES, PRIVATE AND PUBLIC, PRIOR TO STARTING THE WORK. ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ANY UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPAIRED BY CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER



NOTE: 2019-08-29 NEARMAP ORTHOGRAPHIC IMAGE SHOWN

PROJECT COORDINATE SYSTEM

HORI©ONTAL: MnDOT RAMSEY COUNTY, US FOOT, NAD83 DATUM VERTICAL: NAVD88 DATUM

#### GENERAL NOTES:

- BP REPRESENTATIVE MUST BE ON SITE WHEN ANY WORK IS BEING PERFORMED WITHIN 25-FEET OF THE PETROLEUM PIPELINE, OR WHEN THE REACH OF MECHANIZED EQUIPMENT IS CAPABLE OF EXTENDING WITHIN 25-FEET OF THE PIPELINE. BP REQUIRES 48 HOURS (2 WORKING DAYS) PRIOR NOTICE OF ANY WORK NOTICE TO BP DOES NOT RELIEVE ANY CONTRACTOR OF ITS OBLIGATION TO COMPLETE A GOPHER STATE ONE CALL.
- 2 CONTRACTOR IS RESPONSIBLE FOR TAKING ALL NECESSARY SAFETY PRECAUTIONS FOR WORKING
  NEAR THE PETROLEUM PIPELINE AND WILL BE RESPONSIBLE FOR ANY DAMAGES TO PROPERTY OR FOR PERSONAL INJURY CAUSED BY THE WORK



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1/24/2020 BARR ENGINEERING CO. GWB BJL MINNEAPOLIS, MN 55435 BJB

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$\Box$	RAMSEY-WASHING	NO
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TWIN LAKE OUTLET PROJEC
LITTLE CANADA, MINNESOTA

**COVER SHEET** 

BARR PROJECT No.
23/62-1349.00
CLIENT PROJECT No.
-

AND DRAWING INDEX

GENERAL CONSTRUCTION ACTIVITY INFORMATION:
The Stormwater Pollution Prevention Plan (SWPPP) is required for the General Permit Authorization to Discharge Stormwater Associated with Construction Activiti\_(NPDES Permit) as required b\_the Minnesota Pollution Control Agenc; (MPCA) under the National Pollutant Discharge Elimination Sistem/State Disposal Sistem (NPDES/SDS).

This project is a flood control project to provide an outlet from Twin Lake for the Ramse: Washington Metro Watershed District. The purpose of the project is to provide an outlet to the MnDOT drainage sostem, and install a level control structure and back-flow preventer to protect the surface waters within the watershed. The project is located within the Ramse Washington Metro Watershed District within Ramse Count in the Cit of Little Canada, Minnesota, Proposed construction will take place within the SE<sup>1</sup>/<sub>4</sub> of Section 31, T30N, R22W Latitude: 45.0364, Longitude: -93.0878.

LOCATION MAP
See Title Sheet G-01 of the Construction Plans, Site Location Map and Sheet Index of site locations.

The project Work includes mobilication and demobilication removal of old existing lake outlet piping, control of water and or dewatering to perform work excavation and grading of new channel with on-site disposal of excavated materials installation of new piping sistem with level control structure installation of back flow preventer riprap and filter installation at inlets/outlets site restoration with native seed mixes temporar and permanent erosion controls. Frosion evention measures are required to prevent sediment from being transported off site or to nearb 🗆 surface waters. Refer to project drawings for further details.

The anticipated total area of disturbance is approximatel 0.88 acres. Project is under one acre and does not require a General Permit Authorication to Discharge Stormwater Associated with Construction Activit (NPDES Permit)

The total area of pre-construction impervious area is approximatel □ 0.00 acres The total area of post-construction impervious area is approximatel □ 0.00 acres

DATES OF CONSTRUCTION: Begin Construction June 2020, Completion August 2020

#### RESPONSIBLE PERSONS

Below is a list of people responsible for this project who are knowledgeable and experienced in the application of erosion prevention and sediment control BMPs. The shall oversee the implementation of the SWPPP, inspection, and maintenance of erosion prevention, and sediment control BMPs before and during

#### RESPONSIBLE PERSONS:

OWNER: Ramse Washington Metro Watershed District CONTRACTOR:					
MAILING ADDRESS:	2665 Noel Drive	MAILING ADDRESS:	TBD		
	Little Canada, MN 55117		TBD, MN 55		
CONTACT PERSON:	Tina Carstens	CONTACT PERSON:	TBD		
	Administrator		Owner		
PHONE:	651-792-7960	PHONE:	000-000-0000		
MOBILE PHONE:		MOBILE PHONE:	000-000-0000		
EMAIL:	tina.carstens□ rwmd.org	EMAIL:	TBD		

Dave Vlasin Watershed Project Manager

Ramse Washington Metro Watershed District 2665 Noel Drive Little Canada, MN 55117 651-792-7972

RESPONSIBILITY
Preparation of SWPPP APPLICABLE TRAINING
Design of Construction SWPPPs TRAINED INDIVIDUAL TRAINING DOCUMENTATION ATTACHED Jacob N. Burggraft Barr Engineering Co. 4300 MarketPointe Dri U of MN. April 2008. Updated Nov. 2010, March 2014, Ma 2017 Bloomington, MN 55435 Expires Ma 31, 2020 952-832-2743 612-991-0042 jburggraff□ barr.con Brandon J. Barnes Oversight of SWPPP Project Managemen

U of M

Expires 00, 0000

Barr Engineering Co. 4300 MarketPointe Drive Implementation, Revisior Amendment Bloomington, MN 55435 952-832-2737 651-295-6778

Performance or

Construction Site Manager

Supervision of Installation Maintenance, and Repair of BMPs. Performance of TBD, MN 55000 000-000-0000 SWPPP Inspections.

#### RECEIVING WATERS:

bbarnes □ barr.com

Impaired Water□ Yes-Non/Construction Water Bod □ Name: Gervais Lake Water bod □ ID: 62-0007-00 Special Water □ Gervais Creek

<u>Project Area Soil T⊡pe:</u> Rural Land, h⊡drologic soil groups Ta, Sb, HaB, HaB2, Lf, Df.

Special or Impaired Waters: This project discharges to impaired waters within one mile of the sites with non-related construction impairments and will not need to follow the requirements for discharging to an impaired water in 23.1, 23.2, 23.7, 23.8, 23.9, and 23.10 of the permit.

This project stormwater discharge is not anticipated to impact an of the following: Outstanding resource value waters, trout waters, calcareous fens, properties Ities by District Rules and Segister of Historic Places or archaeological sites and is not subject to additional regulations due to am formal environmental reviews endangered or threatened species. The project will have minimal impact on a wetland area and will follow the guidelines of the Ramse Washington Metro Watershed District Rule "C" while excavating the improved channel conditions.

#### PROJECT PLANS AND SPECIFICATIONS:

Required Feature Cover Sheet and Drawing Index (Site Location Map) Stormwater Polution Prevention Plan (SWPPP) Construction Limits Existing and Final Grades with Flow Direction Impervious Surfaces Potential Pollution generating activities Areas not to be disturbed Areas where construction will be phased Temporar and Permanent erosion and sediment control BMPs Standard Details for erosion and sediment control	Sheet No. G-01 G-02 C-01 to C-02 C-01 to C-03 C-03

#### TEMPORARY EROSION CONTROL PRACTICES

- Delineate areas of the site not to be disturbed (with flags, stakes, signs, silt fence, etc.) before work begins.
- Construction phasing will be used when possible to minimize concurrent soil exposure stabilizing areas as soon as work is completed and restoring access paths when the are no longer needed.
- Initiate stabilication immediatel whenever an construction activit has permanent or temporaril ceased on an portion of the site and will not resume for a period exceeding 14 calendar da s.
- Complete stabili ation no later than 7 calendar da at after the construction activit in an portion of the site has temporaril or permanent ceased.

- Erosion control and stabili ation practices to be installed are depicted on the Drawings No. G-02, C-01 and C-02, and include: silt fence, sediment control logs, riprap outfall, inlet drain protection, erosion control blanket, rock construction entrance, flotation silt curtain, and vegetation (through seeding). Soils stockpiles shall be stabilized with fast-growing cover crop and hadro mulch and silt fence or sediment log shall be placed around the perimeter of the
- stock piles.
- Erosion control blanket shall be used to cover all disturbed slopes.
- Direct construction site discharges to vegetated areas where feasible.

  Install all BMPs in accordance with relevant manufacturer specifications and accepted engineering practices.

#### TEMPORARY SEDIMENT CONTROL PRACTICES

- Establish sediment control practices on all downgradient perimeters prior to commencing an ☐upgradient land-disturbing activities
- If sediment control practices must be adjusted or removed to accommodate short-term activities, complete the activiti□as quickl□as possible and re-install immediatel after the activit has been completed or before the next precipitation event (even if the activit is not cet complete
- Maintain downgradient sediment control practices until final stabilication has been achieved for upgradient areas

- Minimi⊺e soil compaction where feasible.
- Preserve topsoil where feasible: If topsoil must be removed, store in a segregated stockpile for reuse in site restoration.

  Sediment control practices to be installed are depicted on Sheets C-01, C-02 and C-03 and include: rock construction entrance, storm sewer pipe rip rap outlet, floatation settiment control practices to be installed are depicted on sheets C-01, C-02 and C-03 and include: rock construction entitlation, such in sewer pipe hip rap under, indial silt fence, siltation logs, inlet protection.

  Install silt fence or siltation logs around the perimeter of temporar is old stockpiles.

  An indewatering of site construction areas that have turbid or sediment laden water must be discharged into a filtering device such as containment bin or filter bag for
- treatment. An dewatering discharge cannot adversel affect the receiving waters downstream of the construction site
- Install rock construction entrances as a vehicle tracking BMP to minimi e the track out of sediment from the construction site Monitor adjacent payed surfaces for track out of sediment from construction site and remove sediment via street sweeping if necessari
- Install all BMPs in accordance with relevant manufacturer specifications and accepted engineering practices

#### BMP DESIGN FACTORS

- Expected amount, frequenc intensit and duration of precipitation: Approximate 2.4 inches of precipitation from the 1-Ear, 24-hour storm event (Atlas
- Nature of stormwater runoff and run-on at the sites, including factors such as expected flow from impervious surfaces, slopes, and site drainage features: The sites accumulates some runoff from off site slopes. Contractor shall install all erosion and sedimentation control devices to handle this off site
- if an istormwater flow will be channeli ied at the site. design BMPs to control both peak flow rates and total stormwater volume to minimi ie erosion at outlets and to minimi⊡e downstream channel and streambank erosion: Peak flow rates and total stormwater volume should not be increased during this project. Channeli⊡ed flow will be routed to vegetated areas where appropriate.
- Range of soil particle sies expected to be present on the site and surrounding area: cla sand cla sand silt, silt sand, sand, gravel.

#### PERMANENT STORMWATER MANAGEMENT SYSTEM

This project will not generate greater than one acre of new impervious surface and will not require a stormwater management sometimes.

#### INSPECTION AND MAINTENANCE ACTIVITIES

- Inspection Requirements:

  1. Inspect the entire construction site at least once ever 7 da sudving active construction and within 24 hours after a rainfall event greater than 0.5 inches in 24 hours.
- Contractor must keep inspection log and copies of the log must be submitted with pa⊡ment applications Where parts of the site have permanent cover, but work remains on other parts of the site, inspection frequenc abe reduced to once per month in
- areas with permanent cover.
  Inspect all erosion prevention and sediment control BMPs and pollution prevention management measures for integrit□and effectiveness
- Inspect surface waters for evidence of erosion and sediment deposition.
- Inspect construction site vehicle exit locations for evidence of off-site sediment tracking onto paved surfaces and inspect streets and other areas adjacent to the project for evidence of off-site accumulations of sediment.
- Inspections must be conducted blan appropriatellatrained individual in accordance with the Construction Stormwater (CSW) Permit.

- Repair, replace, or supplement all nonfunctional BMPs with functional BMPs b⊟the end of the next business da⊒after discover⊟or as soon as field conditions allow access.
- Repair, replace or supplement all perimeter control devices when the become nonfunctional or the sediment reaches 1/2 of the height of the devices Remove all deltas and sediment deposited in surface waters and re-stabili e the areas where sediment removal results in exposed soil within 7 da s of
- Remove tracked sediment from all payed surfaces both on and off site within 24 hours of discove
- Remove off-site accumulations of sediment in a manner and at a frequence sufficient to minimize off-site impacts
  Maintain all BMPs accordance with relevant manufacturer specifications and accepted engineering practices.

- Recordkeeping:
  1. All inspections and maintenance must be recorded within 24 hours in writing and records must be retained with the SWPPP.
  2. Records of each inspection and maintenance activit⊡shall include:

- b. Name of person(s) conducting inspections
   c. Findings of inspections, including the specific location where corrective actions are needed.
- d. Corrective actions taken (including dates, times, and part completing maintenance activities).
- e. Date and amount of all rainfall events greater than 0.5 inches in 24 hours:rainfall amounts will be obtained from a properlimaintained rain gauge installed onsite, a weather station that is within 1 mile of the site, or a weather reporting sestem that provides site specific rainfall data from radar f. If an discharge is observed to be occurring during the inspection, a record of all points of the propert from which there is a discharge must be made
- and the discharge should be described (i.e., color, odor, floating, settled, or suspended solids, foam, oil sheen, and other obvious indicators of pollutants) and photographed.
- g. An amendments to the SWPPP proposed as a result of the inspection must be incorporated within 7 calendar da s

#### RECORD RETENTION

Copies of inspection records for the time period of that pa ment application shall accompan the pa ment applications

This SWPPP including, all changes to it, and inspections and maintenance records must be kept at the site during construction in either the field office or in an on-site vehicle during normal working hours.

Upon request make this SWPPP (including all certificates, reports, records, or other information required b□the CSW Permit) available to federal, state, and local officials within 72 hours for the duration of the permit and for 3 lears following.

#### POLLUTION PREVENTION MANAGEMENT MEASURES

Minimice exposure to stormwater of the following products, materials, or wastes; building products that have potential to leach pollutants are not expected to be present on site, but if present exposure to stormwater will be minimized through coverage with plastic sheeting\_pesticides, herbicides, insecticides, fertilizers, treatment chemicals, and landscape materials through coverage with plastic sheeting\_ha\_ardous materials and toxic waste (including oil, diesel fuel, gasoline, h draulic fluids, paint solvents, petroleum-based products, wood preservatives, additives, curing compounds, and acids) through proper

storage in sealed containers in restricted access storage areas and in compliance with Minn. R. ch. 7045 including secondar containment as applicable

- solid waste through proper storage, collection, and disposal in compliance with Minn. R. ch. 7035
  Position portable toilets so that the □are secure and will not be tipped or knocked over.
- Properl dispose of sanitar waste in accordance with Minn. R. ch. 7041.
- Spill Prevention and Response: Take reasonable steps to prevent the discharge of spilled or leaked chemicals, ensure adequate supplies of absorbent and other dr\_clean-up materials are available at all times to clean up discharged materials and that an appropriate disposal method is available for recovered spilled materials, report and clean up spills immediately as required by Minn. Stat. §115.061.

- Fueling and maintenance of equipment and/or vehicles will not occur on-site.

  Washing of vehicles and/or equipment will not occur on-site.

  Washout of concrete and/or other similar wastes (such as stucco, paint, form release oils, curing compounds and other construction materials) must be self contained wash-out and not cleaned on-site.

#### Ensure final stabili⊡ation of the site.

- For final stabilication to be considered complete, the following must occur:
- Complete all soil disturbing activities at the site.
- Stabili⊡e all soils with permanent cover, 70□ or greater vegetation cover of disturbed areas Remove all temporar □s □nthetic and structural erosion prevention and sediment control BMPs
- Permanent Cover will consists and suddand eroston prevention and sealment control birds.

  Permanent Cover will consists of seeding, erosion control blanket on slopes and disturbed areas, and seeding and mulching in all other disturbed areas. Storm sewer culverts shall have flared sections and riprap to eliminate erosion.

  Within 30 dass after all activities for final stabilisation have been completed, submit a Notice of Termination (NOT) form to the MPCA. (This project will
- disturb less then one acre and not require a MPCA Permit so there will be no need to file a Notice of Termination

#### SWPPP AMENDEMENTS OR CHANGES

See Contractor's Inspection Log Records.



CALL BEFORE YOU DIG.

CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD-LOCATING ALL SITE UTILITIES, PRIVATE AND PUBLIC, PRIOR TO STARTING THE WORK. ALL UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ANY UTILITIES DAMAGED BY CONTRACTOR SHALL BE REPAIRED BY CONTRACTOR TO THE SATISFACTION OF THE UTILITY OWNER.

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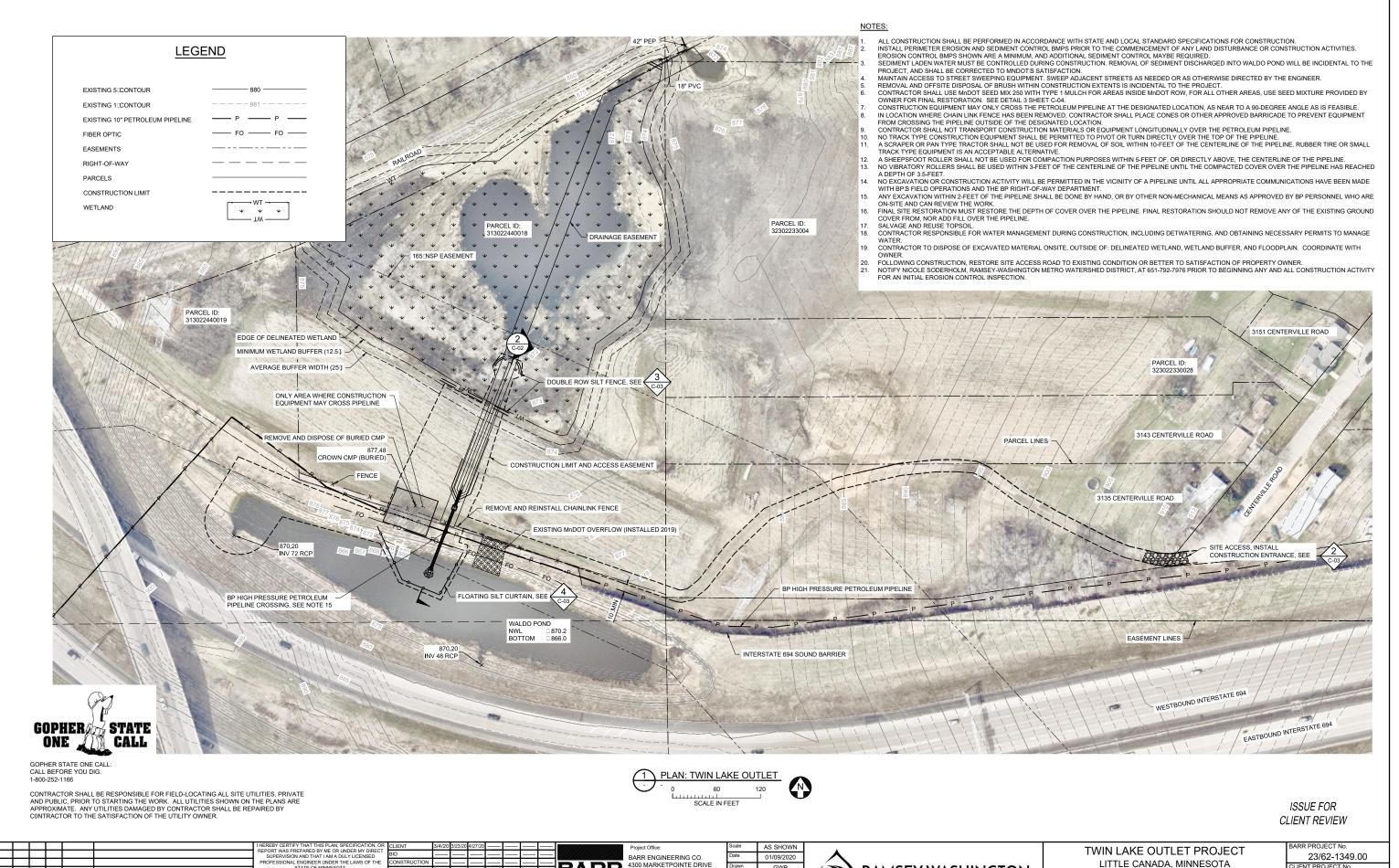


TWIN LAKE OUTLET PROJECT LITTLE CANADA, MINNESOTA

> STORMWATER POLLUTION PREVENTION PLAN (SWPPP)

23/62-1349.00

G-02



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MINNEAPOLIS, MN 55435

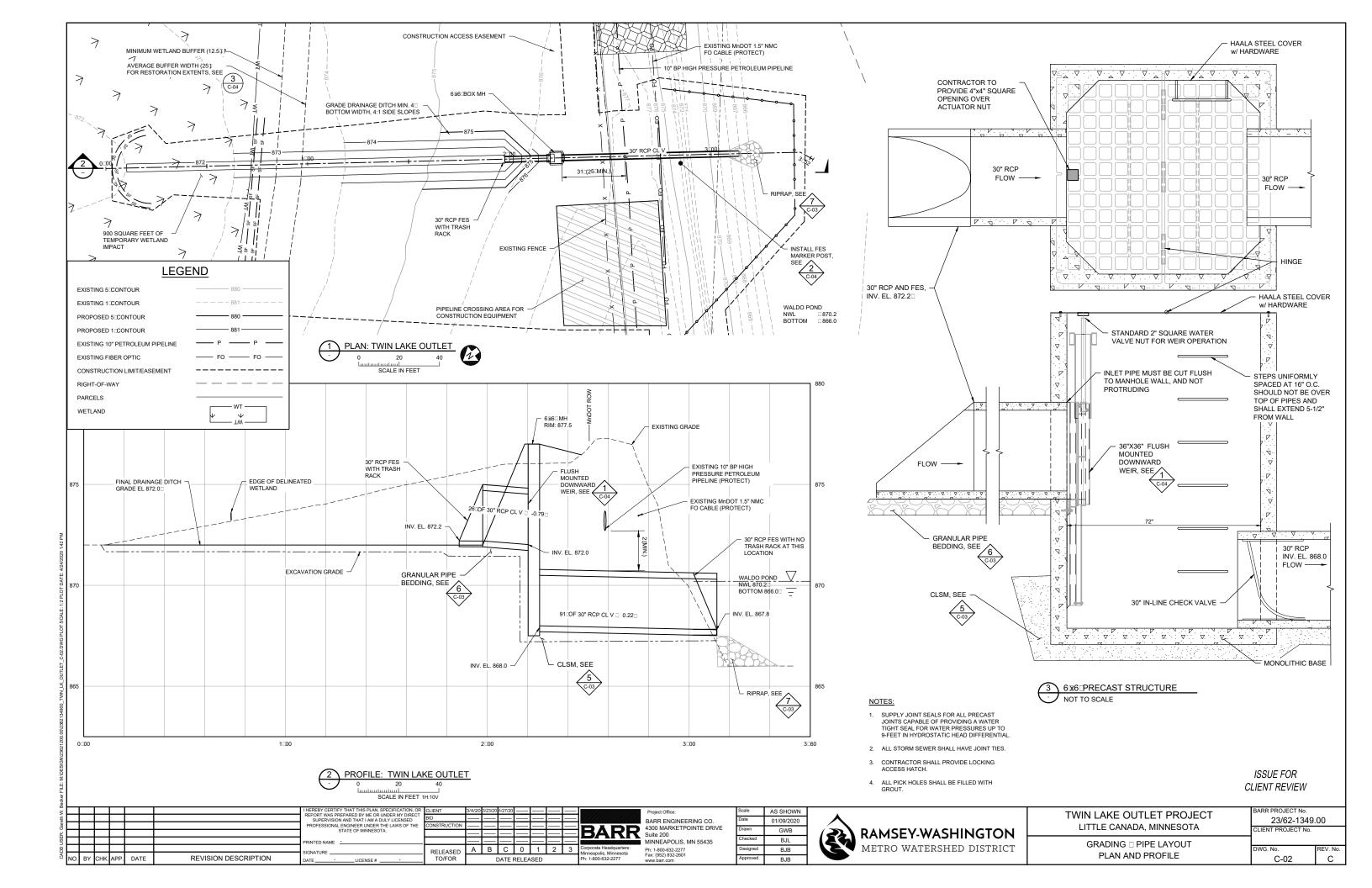
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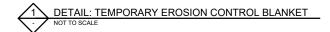
METRO WATERSHED DISTRICT

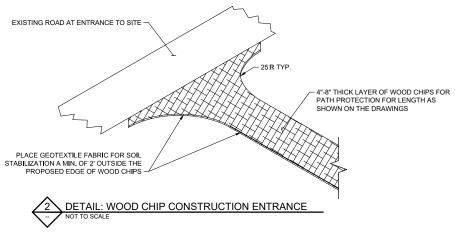
LITTLE CANADA, MINNESOTA SITE LAYOUT AND EROSION CONTROL ☐ EROSION CONTROL C-01

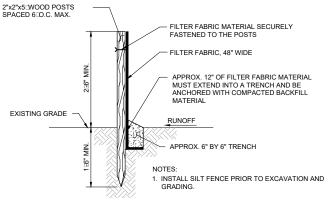


NOTE:

- REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- 3. ROLL THE BLANKETS (A) DOWN OR (B) HORI⊡ONTALLY ACROSS THE SLOPE.
- 4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP, WITH THE UPHILL BLANKET ON TOP.
- WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.

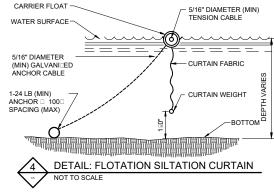






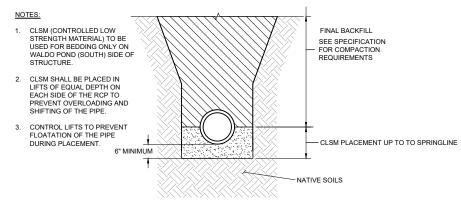
2. REMOVE SILT FENCE FOLLOWING INSTALLATION OF EROSION CONTROL BLANKET.



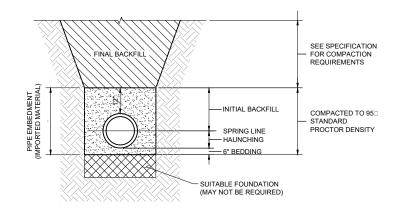


#### SILT CURTAIN NOTES:

- 1. 6" MAXIMUM FOR WATER DEPTHS UP TO 3 $\pm$ 0" DEEP AND 1 $\pm$ 0" MAXIMUM FOR DEPTHS OVER 3 $\pm$ 0"
- 2. ELIMINATE ANCHOR AND CABLE FOR WATER DEPTHS LESS THAN 3:0" OR DISTANCE BETWEEN SHORE ANCHORS FOR TENSION CABLE OF LESS THAN 100
- 3. ANCHOR TENSION CABLE AT BOTH SIDES WITH STEEL POSTS OF DIAMETER AND LENGTH TO PREVENT BENDING AND PULL-OUT
- 4. WEIGHT HEAVY ENOUGH TO HOLD CURTAIN VERTICAL IN CURRENT AND WAVES TYPICAL FOR SITE.
- CURTAIN 22 OF VINYL COATED NYLON FABRIC
- FLOAT 8" MINIMUM DIAMETER PLASTIC SEGMENTS
- WEIGHT CONTINUOUS GALVANI  $\!=$  D STEEL CHAIN 5/16" MINIMUM DIAMETER, OR SEGMENTS OF 5/16" DIAMETER STEEL CABLE, 24" LONG  $\!=$  12" BETWEEN PIECES

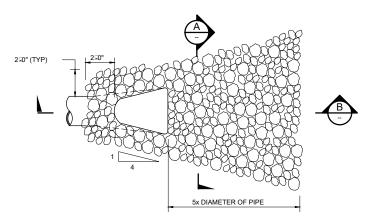




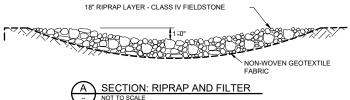


- IMPORTED PIPE EMBEDMENT MATERIAL PER MnDOT SPEC. 3149.2F GRANULAR BEDDING, 100 PASSING THE 1" SIEVE AND NOT MORE THAN 10.5 WILL PASS
- IMPORTED PIPE EMBEDMENT MATERIAL SHALL BE COMPACTED IN UNIFORM LIFTS, 8" OR LESS IN DEPTH, LOOSE MEASURE, TO 95□ STANDARD PROCTOR DENSITY FROM THE BEDDING TO A MINIMUM DEPTH OF AT LEAST 12" ABOVE THE CROWN

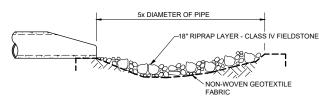












B SECTION: RCP AND RIPRAP

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roject Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE MINNEAPOLIS, MN 55435

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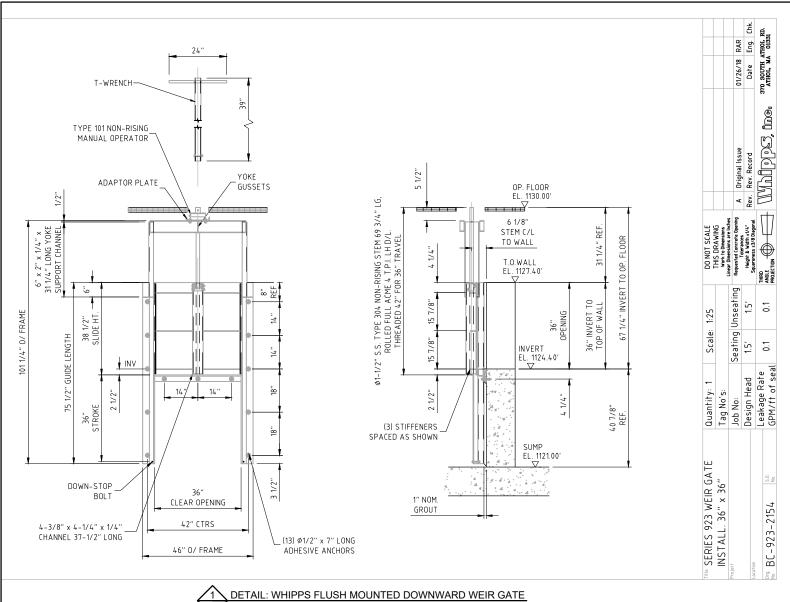


TWIN LAKE OUTLET PROJECT LITTLE CANADA, MINNESOTA

LIENT PROJECT No.

CONSTRUCTION **DETAILS** 

23/62-1349.00 C-03



EXISTING FENCE DISTURBED AREA OUTSIDE MnDOT ROW USE SEED MIX PROVIDED BY OWNER WITH TEMPORARY EROSION CONTROL BLANKET DISTURBED AREA INSIDE MnDOT ROW USE MnDOT SEED MIX 35-241 WITH TEMPORARY EROSION CONTROL BLANKET

3 PLAN: TWIN LAKE OUTLET RESTORATION

DETAIL: WHIPPS FLUSH MOUNTED DOWNWARD WEIR GATE
NOT TO SCALE

 $\bigcirc$ 

- O.063" Thick aluminum sign. Black letters on white high intensity reflectorized background.
- 2) U-Channel post, Minimum 3 LB./FT. 6'-6" long, painted green.
- 3) Place as directed by City Engineering Dept.
- Required for any structure not located in a paved surface.

DETAIL: STRUCTURE MARKER SIGN

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Project Office: BARR ENGINEERING CO. 4300 MARKETPOINTE DRIVE Suite 200 MINNEAPOLIS, MN 55435

Scale	NOT TO SCALE	
Date	4/24/2020	
Drawn	GWB	
Checked	BJL	
Designed	BJB	
Approved	BJB	

(32)	RAMSEY-WASHINGTON METRO WATERSHED DISTRICT
3	METRO WATERSHED DISTRICT

TWIN LAKE OUTLET PROJECT LITTLE CANADA, MINNESOTA CONSTRUCTION **DETAILS** 

23/62-1349.00 C-04

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# Administrator's Report

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#### **MEMO**

**TO:** Board of Managers and Staff

**FROM:** Tina Carstens, Administrator

**SUBJECT:** May Administrator's Report

**DATE:** April 30, 2020

#### A. Meetings Attended

Tuesday, April 7	2:00 PM	Audit Exit Meeting
Wednesday, April 8	VARIOUS	Communications Interviews
Thursday, April 9	VARIOUS	Communications Interviews
Friday, April 10	VARIOUS	Communications Interviews
Tuesday, April 14	9:00 AM	WaterFest Discussion
	5:00 PM	Twin Lake Shoreline Restoration
Friday, April 17	10:00 AM	Administrator Meeting
Wednesday, April 22	2:00 PM	MAWA Executive Committee
Thursday, April 23	10:00 AM	Water Resources Conference
Thursday, April 30	9:30 AM	Water Based Funding Meeting
	1:00 PM	Battle Creek PFAS Sampling

#### **B.** Upcoming Meetings and Dates

June Board Meeting June 3, 2020
July Board Meeting July 1, 2020

#### C. **COVID-19 District Update**

We continue to have an office that is closed to the public and are conducting most of our business from home and through email and phone. That being said, as spring arrived, our field staff have been out doing permit inspections, construction observation, natural resources maintenance, and water level monitoring tasks. We continue to maintain the procedures implemented for social distancing and monitor the situation as directed by the state agencies. At the time of this writing, the state at home order is set to expire on May 4<sup>th</sup>. I continue to monitor the situation and will adjust our approach as needed. Prior to the stay at home order, the district office was closed and I was encouraging staff to work from home as much as possible and when in the office to maintain social distancing protocols. It is possible we would revert back to those measures if the order is lifted. I will just continue

to evaluate and make decision on a week to week basis. I am proud of our staff as they continually adapt to these times and work conditions. We are learning to connect in different ways amongst ourselves as well as with our partners and residents. And we continue to provide information and services as best we can in these situations. I will keep the board informed as I make decisions in the future. I would take some guidance from you as a board on how you would like to approach the next board meeting as well.

#### D. Ramsey County Property Tax Extension

I received notification from Ramsey County that the board of commissioners extended the payable 2020 first half tax deadline from May 15<sup>th</sup> to July 15<sup>th</sup>. This will apply only to those that do not escrow their tax payments. We will still receive our first tax settlement on July 3<sup>rd</sup> and then will received a second settlement in early August. It is anticipated that the deferred amount would be between 3-8% of our expected settlement. Because of our healthy fund reserves, this will not impact our cash flow or cause any problems in our budget or accounts. I also would anticipate that we will see a higher percentage of non-payment in 2020. That is still to be seen. Again, we have a healthy reserve that can handle a larger percentage of non-payment. This is something I will keep an eye on as we plan for our 2021 budget and levy request as well.

#### E. Introducing Lauren Hazenson – Communications and Outreach Coordinator

Over the last month, a small staff team conducted interviews over Zoom for the open communications and outreach coordinator position. Nine candidates were interviewed in this manner. We were very fortunate to have nine highly qualified candidates that impressed us with their experiences and qualities they could bring to this position. It was clear though that one candidate was a top choice. I offered the position to Lauren Hazenson and she has accepted. She will be officially starting on May 11<sup>th</sup>.

Lauren comes to us from the Nokomis East Neighborhood Association (NENA) in Minneapolis. Prior to that she worked for the Be the Match national marrow donor program. Lauren has extensive experience in strategic communications planning, organization communications in various platforms, event planning, and community outreach.

Lauren has found herself immersed in water quality, flooding, and natural resources management programs within her job at NENA as the one managing the green initiatives committee and communications around these topics. I really look forward to Lauren starting at the District and working with our staff.

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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 – May 2020

**Date:** April 30, 2020

#### **Project feasibility studies**

# Beltline resiliency and Phalen chain water level management study (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)

The purpose of this study is to evaluate system-level flood damage reduction options, including real-time mechanical alteration of Lake Phalen and Keller Lake channel outlet structures, as well as other critical system infrastructure, to actively manage stormwater runoff from flood-prone areas tributary to the Beltline storm sewer in an effort to reduce flood levels that would otherwise impact homes. The evaluation will use the RWMWD stormwater model to simulate system-level modifications to evaluate how adjustments to outlet structures during a flood event may be able to optimize the existing system's performance to reduce flooding impacts to homes adjacent to RWMWD-managed water bodies.

Several months ago, stakeholders represented by both public and private interests provided the RWMWD with comments on the Beltline resiliency study. Based on managers' feedback at the December workshop, RWMWD staff have compiled comments and formulated responses, clarifying information and indicating areas where the report should be modified. The comments and responses are included in this month's board packet for the managers' review and consideration.

As mentioned in past status reports, feasibility studies are underway for the Owasso Basin bypass concept, Willow Creek flood reduction concept, and Ames Lake area concept; each were highlighted in the resiliency study report and approved last month. In addition, the Keller channel control structure and the Phalen outlet modifications design have begun.

#### 2020 feasibility studies stemming from the Beltline resiliency study

- Owasso Basin bypass pipeline feasibility study (Barr project manager: Matt Metzger; RWMWD project manager: Tina Carstens)
- Willow Creek flood-damage-reduction feasibility study (Barr project managers: Leslie DellAngelo; RWMWD project manager: Tina Carstens)
- Ames Lake flood-damage-reduction feasibility study (Barr project managers: Leslie DellAngelo; RWMWD project manager: Tina Carstens)
- West Vadnais to South I-694 conveyance feasibility study (Barr project manager: Sam Redinger, RWMWD project manager: Tina Carstens)

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This period, Barr formulated how the information-gathering phase of each study (surveys of structures and topography, utilities, as-builts, property ownership, etc.) could be completed simultaneously to increase efficiency. In the coming weeks, Barr will approach the cities in each study area about contacting homeowners in the survey areas, as well as to request information needed for each feasibility study. The surveys were initially delayed as a result of the COVID-19 pandemic, but we are exploring ways to complete the surveys safely. The West Vadnais to South I-694 conveyance feasibility study work this period is described in greater detail, below.

# West Vadnais to South I-694 conveyance feasibility study (Barr project manager: Sam Redinger; RWMWD project manager: Tina Carstens) \*\*\*

The purpose of this study is to evaluate the feasibility of constructing a larger discharge pipeline that could be used to draw down West Vadnais Lake when conditions allow and/or when downstream improvements are implemented. The goal is to establish the normal water level of the system at elevation 881.0 and the 100-year flood level at elevation 884.0 without increasing flood levels downstream.

This period, Barr created an existing-conditions base map along the project corridor, consolidating available survey data, LiDAR information, aerial imagery, and utilities. A Gopher State One Call request was submitted to identify utility conflicts along the proposed pipe alignment. Once complete, the utility information will be imported to the base map. The existing-conditions base map will inform the development of feasible pipe configurations.

Historical soil borings around the proposed pipe alignment, obtained from MnDOT, were utilized to evaluate existing soil conditions and guide a high-level evaluation of constructability constraints.

During the next period, Barr intends to evaluate major utility conflicts, begin coordinating with stakeholders regarding respective permitting requirements, and evaluate pipe configuration concepts to develop preliminary design drawings and outline a construction cost estimate. Minor delays to the study schedule occurred during the past period due to the COVID-19 pandemic; however, the feasibility study is now progressing smoothly.

#### **Pumping considerations**

In advance of changes to the Phalen Chain of Lakes' control structures and other potential piped changes evaluated as described in the West Vadnais Lake conveyance south of Highway 694 feasibility study scope, the RWMWD board members asked staff to consider opportunistic pumping as a way to help lower West Vadnais Lake and Grass Lake levels in order to better prepare for large runoff events. In response to this request, and as a part of the feasibility study, we could attempt to characterize and quantify what that opportunistic pumping might look like. This additional work is not currently included in the scope of work; however, we offer the following scope expansion for board consideration.

The expanded scope of the work could include planning-level opinions of cost (capital and operation and maintenance), a discussion of permitting needs for each option, upstream benefits (reduction of flooding in West Vadnais Lake, Grass Lake, and the Vadnais Snail Lake Regional Park), and corresponding downstream flood level changes.

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Barr will need clear direction on boundaries before progressing. Below are a few discussion points and questions for the May meeting as board members consider opportunistic pumping.

- 1. Should staff evaluate potential opportunistic pumping options for West Vadnais Lake as a part of the West Vadnais Lake conveyance under Highway 694 feasibility study? "Opportunistic pumping" means pumping West Vadnais Lake downstream at certain times (not continuously) and under certain conditions.
- 2. We anticipate that any pumping scenario would still result in the following.
  - a. Peak elevations where water flows north over the Grass Lake emergency spillway will still occur from time to time.
  - b. Duration of overflow to areas north of Gramsie Road will be reduced to varying degrees, depending on the scenario.
  - c. Downstream changes in flood levels could range from hundredths to a few tenths of a foot and depend on how the Twin Lake outlet is operated during the West Vadnais Lake opportunistic pumping.

With these points in mind, we propose to run a four-year simulation (2015 through 2018 rainfall) comparing flooding both with and without pumping to demonstrate what pumping might achieve in terms of benefits. This is the same time interval evaluated for the seasonal drawdown analysis of West Vadnais Lake that was done as a part the Beltline resiliency study. **Does the board concur with this timeframe and duration of modeling?** 

- 3. What additional information do the managers need to decide when to initiate opportunistic pumping of West Vadnais Lake, if downstream conditions allow? In other words, at what West Vadnais Lake level would pumping start?
- 4. What downstream changes in Gervais Lake water levels during any pumping from West Vadnais Lake are acceptable/not acceptable?

For any pumping scenario, we believe that the following key assumptions are appropriate:

- Pumping below a West Vadnais Lake elevation of 881.0 is unlikely to gain support from
  regulators and the Vadnais Lake Area Watershed Management Organization (VLAWMO);
  another environmental assessment worksheet would likely be needed to target a lower
  elevation. Based on past experience, VLAWMO and the DNR both seem unlikely to support or
  approve.
- 2. Pumping should stop before an anticipated 2-inch storm event (same as in the Twin Lake operations plan) to protect Northstar Estates, regardless of the level in West Vadnais Lake.
- MnDOT permits may be necessary, depending on the scenario, and additional hydrologic modeling, application preparation, and response efforts may require more budget than the original scope assumed.

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#### Characterization of potential pumping options

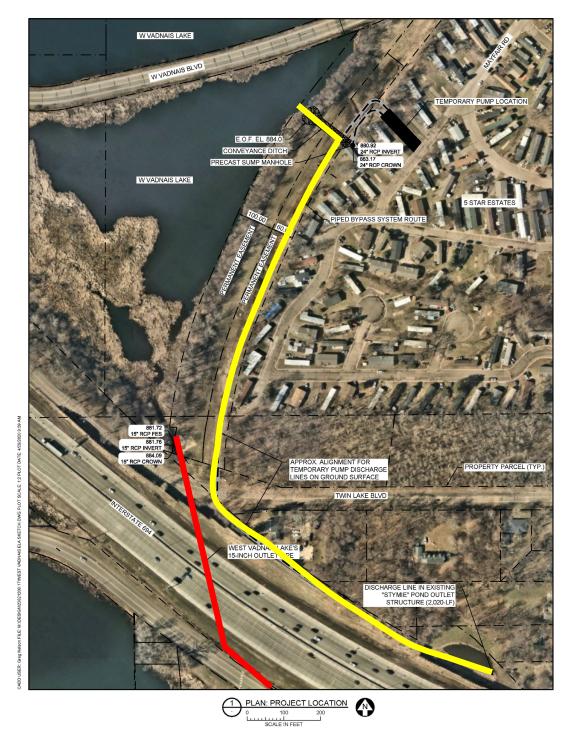
Bypass system route (shown in yellow on the map below): Pump into the bypass system (12-inch HPDE pipe to Stymie Pond) when West Vadnais Lake levels are below the overflow to Twin Lake (884.0) and are above 881.0. This path sends water through MnDOT's Stymie Pond. The pumped flow rate would be dictated by the outlet size from Stymie Pond and would be subject to approval from MnDOT and the DNR. This option could allow 5 to 10 cubic feet per second to be pumped from West Vadnais Lake, when conditions allow and in addition to the flow leaving the existing 15-inch outlet. (Note: MnDOT previously approved 5 cubic feet per second for the temporary bypass when there was imminent risk to the homes on Twin Lake; 10 cubic feet per second may be a reasonable upper limit to pipe capacity leaving Stymie Pond).

Leverage West Vadnais Lake's lowered outlet (shown in red on the map below): Through construction of an inline check valve or other manipulation of the 15-inch and downstream manholes, the RWMWD could pump to enable the 15-inch pipe to flow full until the lake reaches 881.0. This option sends water along the same path as it does now, but allows for the 15-inch to flow full under lower lake levels; it may or may not require MnDOT and DNR approvals, and would not leverage the bypass system described above in #1. This option could maintain a total, consistent 4 cubic feet per second to leave West Vadnais Lake's 15-inch outlet (pipe full flow).

Based on board discussion and associated direction to Barr and RWMWD staff, a scope of work will be prepared for consideration, and, if approved, the added study will begin.

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This map shows two different potential paths for water pumped from West Vadnais Lake- the bypass pumping system route (yellow) and the lake's existing 15-inch outlet (red).

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# Federal Emergency Management Agency (FEMA) flood mapping updates (Barr project manager: Brandon Barnes; RWMWD project manager: Tina Carstens)

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

We are still waiting for comments from the Minnesota DNR on the hydraulic model inputs. Barr provided responses to DNR comments and updated models on August 29. The resubmittal included updates to supporting documentation to address DNR comments, minor updates to the models, and plans or survey information for inundation areas shown on the FEMA floodplain maps. In addition, we submitted preliminary floodway models for Kohlman Creek and the Lake Wabasso outlet.

We are also still waiting for final DNR approval on hydraulic model input parameters. Because of the extended DNR comment period, the process for providing information to update the floodplain maps was extended and will now continue into 2021. The DNR anticipates providing comments in spring or summer 2020, after which work will continue on the updated models.

#### Water quality monitoring and other district project monitoring

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

The purpose of this project is to install an automated system to monitor lake levels throughout the RWMWD and allow real-time transfer of data to the RWMWD's website for public consumption.

Xcel Energy has finished installing power lines and electrical meters at the stations on Wabasso, West Vadnais, Snail, and Phalen lakes, and has approved installation of power and an electric meter at Owasso Lake, which should occur in the coming weeks.

Barr and RWMWD staff have installed monitoring equipment at Wabasso, West Vadnais, Snail, and Phalen lakes. The stations are currently operating and recording water levels. Barr is setting up an online web page through which real-time and past data can be viewed. Additionally, alarms are being programmed into the system, which will send messages to the RWMWD and Barr to warn when a lake reaches a critical level. The alarms are currently in the development stage and only available to Barr, but will soon be available to RWMWD staff as well.

#### **Capital improvements**

# Wakefield Park/Frost Avenue stormwater project (Barr project manager: Michelle Kimble; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to work with the City of Maplewood and its consultants to implement a site plan that integrates stormwater management features with associated educational elements for the northern portion of Wakefield Park.

Final restoration of the basins, including all plantings, is taking place in April and May 2020. A weir modification is required in the grit chamber upstream of Wakefield Lake. The City of Maplewood will clean out the grit chamber in April or May, and Veit will install the weir modification immediately after.

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# 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 RWMWD.

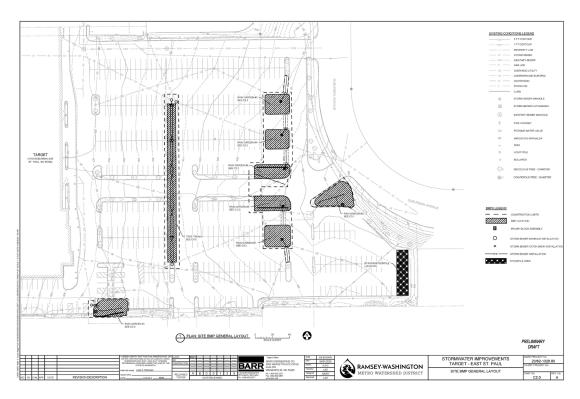
Follow-up inspections for the 2019 BMPs constructed at Redeemer Lutheran Church in White Bear Lake and Cornerstone Montessori School in Saint Paul noted some winter damage and small design updates that need to occur this spring. Contracting for the Boys and Girls Club Eastside is concluding, and Outdoor Lab Landscape will begin construction on the permeable pavement system later this spring.

# Target stores stormwater retrofit projects (Barr project manager: Leslie DellAngelo; 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.

Final design has been delayed for the North Saint Paul sites due to past groundwater contamination. Barr and the RWMWD will develop a plan to proceed with Target after the East Saint Paul 90-percent construction plans are submitted and review comments are received. At this time, Target does not want to conduct a subsurface investigation to better characterize the contamination.

Preliminary design and related construction plans are nearly complete for the East Saint Paul site and will be provided to Target and RWMWD staff for review. The design consists of five to seven surface rain gardens and a tree trench feature (see site plan, below).



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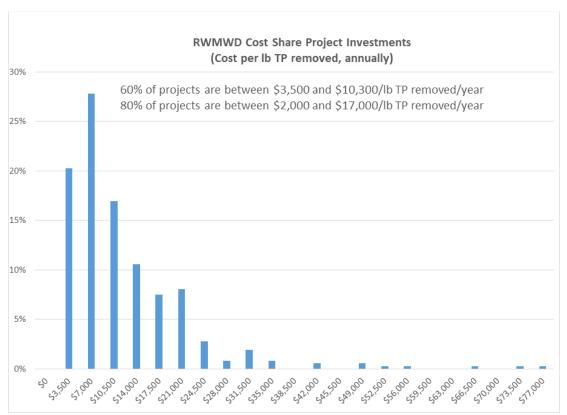
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This plan sheet shows the preliminary (90%) site plan for the East St. Paul Target site. Rain gardens #6 and #7 may be excluded from the final planset, pending additional feedback from Target.

The BMP designs are such that that 57 percent of the parking lot will be tributary to a BMP (rain garden or tree trench) and that 0.74 inches of treatment depth will be achieved on average. Pending feedback from Target, we hope to present the plans at the June board meeting for approval of solicitation of bids. The current engineer's opinion of cost for the project ranges from \$710,000 to \$820,000 (if five rain gardens are included in the final design) or \$830,000 to \$960,000 (if seven rain gardens are included in the final design). These opinions of cost assume a 20% contingency and reflect a 90% design level of accuracy.

Based off of the most likely cost in each range, this results in an annual cost per pound of phosphorus removed to be approximately \$14,000 per lb total phosphorus (TP) removed per year. To put these annual cost per lb TP removed values in context, we have included a brief discussion of values from past RWMWD projects, below.

In the past, the range for **RWMWD** larger-scale CIP projects has been \$400 to \$14,000 per pound of total phosphorus removed per year. These projects tend to be less expensive (and more cost effective) due to their regional nature. See the chart below for the distribution of **RWMWD** cost-share program projects. These projects are often more expensive because they are at a site-level, rather than regional, scale. In the past, we have favored simpler surficial features (like rain gardens) for their cost effectiveness. Where tree trenches or other features with more underground components are needed due to lack of space, projects tend to cost more and be less cost effective.



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# Aldrich Arena (soils and plantings) (Barr project manager: Matt Metzger; RWMWD project manager: Paige Ahlborg)

The purpose of this project is to incorporate green-infrastructure stormwater management into the Aldrich Arena campus renovations. The parking lot will be full-depth reclaimed by Ramsey County, which itself would not trigger the need for a RWMWD permit. The partnership between the RWMWD and Ramsey County will achieve treatment of runoff from the parking lots where none currently exists. A formalized joint-powers agreement outlining the partnership cost sharing, roles, and responsibilities was crafted between the RWMWD and Ramsey County.

As described in March, rain-garden grading, repair, and reconstruction are complete. Plantings will be installed in 2020. The RWMWD's portion of the project is expected to be complete by early summer 2020.

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

This project includes the design, bid document development, bidding, permitting, and project procurement of the modifications to the Keller channel structure and the Phalen outlet structure. The purpose is to implement a design that would 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. The operation of the structures under certain conditions will help reduce upstream flood levels where homes exist in the floodplain.

This period, Barr staff continued to analyze the hydraulic parameters that will inform the modification of the existing outlet structures now that preliminary design objectives have been identified by the project team. Barr has teamed with the local sales representative for Whipps, Inc., a gate manufacturer to provide options on gate style, size, operating requirements and automated functionality needed to determine product selection. Barr's structural engineering staff have also been engaged to provide input on modifications to the existing structures in the project areas.

# West Vadnais Lake outlet lowering (Barr project manager: Erin Anderson Wenz; RWMWD project manager: Tina Carstens) \*\*\*

The purpose of this project is to provide final plans and specifications and permitting required to lower the 15-inch outlet of West Vadnais Lake to an inlet elevation of 881.0.

Several permits are required for the project. The status of each is described below.

- MnDOT access permit: submitted and waiting for response
- Little Canada right-of-way permit: submitted and granted
- West Vadnais Lake outlet joint permit application (Wetland Conservation Act/U.S. Army Corps of Engineers): submitted and granted
- Minnesota DNR work in public waters permit: submitted and granted
- Saint Paul Regional Water Services access agreement: granted

The RWMWD is incorporating electronic carp control features into the design that would both discourage carp in West Vadnais Lake from entering the outlet and traveling downstream, as well as

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provide a space to corral carp gathering near the outlet for removal from the lake. This addition should not delay the work.

The work will be completed as part of the RWMWD's 2020 CIP by the district's contractor, Fitzgerald Excavating and Trucking, Inc. A change order is being prepared in anticipation of the work. The contactor is prepared to begin soon after receipt of the MnDOT permit.

#### **CIP** project repair and maintenance

# CIP maintenance/repairs 2020 project (Barr project manager: Greg Nelson; RWMWD project manager: Dave Vlasin)

The purpose of this project is to maintain the 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 municipal separate storm-sewer system (MS4) requirements.

Fitzgerald Excavating & Trucking, Inc. has made substantial progress on the overall project. All sites are substantially complete and on track for final completion well before the deadline. Change order 2 is being prepared for extra work near the outlet of West Vadnais Lake. Three items are included: 1) the Twin Lake bypass system, 2) the West Vadnais Lake overflow swale, and 3) lowering of the West Vadnais Lake outlet. Items 1 and 2 are complete, and we are waiting for additional information from the contractor before finalizing. Item 3 is awaiting a MnDOT permit and, once received, will likely be completed in May.

# 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.

In-pipe inspection of the Beltline tunnel system has been completed, with the exception of the Mississippi River Branch. As noted previously, this segment was not fully inspected due to in-pipe conditions; water levels were too high and too fast to safely complete the work. Inspection of this segment has been deferred until base flows provide safer conditions, which is unlikely until winter 2020-2021.

The ice columns that were present in the Battle Creek overflow structures have melted away, offering safe conditions to perform the in-pipe work (inspection and survey). However, this fieldwork has been delayed due to COVID-19 concerns and government recommendations. The in-pipe work for the Battle Creek system is unlikely to occur until later this year, or possibly even next year.

Barr conducted a Battle Creek site visit to identify and locate the access points for a CCTV inspection of RWMWD-owned small-diameter storm sewers that are part of the Battle Creek system. We will begin coordinating with a CCTV subcontractor to safely complete this work.

The unexpected schedule delays have resulted in a large portion of field data being unattainable until later in 2020 and/or 2021. In the interim, Barr will continue to compile and analyze the field data obtained to provide a summary memorandum of initial findings. The purpose of this new deliverable will

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be to summarize the inspection(s) performed and their preliminary findings to identify any concerns within the Beltline system that should be addressed as part of a near-term CIP. The RWMWD can expect a draft of this memorandum in June 2020 to inform the 2021 budget planning process. A comprehensive report will be provided as soon as feasible and is contingent on safely collecting the remaining field data.

#### Natural Resources Program Update – Bill Bartodziej and Simba Blood

#### Lake and Reservoir Management - Manuscript

Over the last several months, we have had the opportunity to write a technical paper that reports on the Phalen Chain of Lakes Water Quality in relation to carp management, alum treatment, and watershed BMPs. This was a pretty massive undertaking that includes 20 years of lake and creek water quality data and a summary of 10 years of carp management data. This was a joint effort that included NR and Water Quality staff, past and present U of MN researchers, and Keith Pilgrim, Barr. It's great to have an opportunity to get these data out for other agencies to use, and we believe the findings are new and interesting, and will definitely contribute to the discipline. We plan to submit the paper over the summer/fall, once we get comments back from a few colleagues. Below is the title, introduction, and a few key findings:

# Water Quality in the Phalen Chain of Lakes after Carp Control, Alum Treatment, and Stormwater Management

William Bartodziej, Przemek Bajer, Justine Dauphinais, Eric Korte, Keith Pilgrim, Simba Blood, and Peter Sorensen

#### Introduction

The Ramsey-Washington Metro Watershed District (RWMWD) manages surface waters in a 65-square-mile area, covering the eastern portion of the Twin Cities. The most prominent water feature in the RWMWD jurisdiction is the Phalen Chain of Lakes. In Minnesota, watershed districts are tasked with managing surface water quality with much of the focus being nutrients, and in particular, reducing total phosphorus (TP) loading to lakes and streams as directed by Clean Water Act and Minnesota eutrophication standards. Lake Kohlman, the upstream and northernmost lake in the Phalen Chain, was placed on the Minnesota Pollution Control Agency's (MPCA) 303 (d) Impaired Waters List in 2008 due to excessive TP levels (growing season ten-year average of 98  $\mu$ g/L). For shallow systems like Kohlman, the state TP standard in this ecoregion is 60  $\mu$ g/L (Minnesota Pollution Control Agency 2018).

Once a lake is placed on the Impaired Waters List, a Total Maximum Daily Load (TMDL) study is performed to quantify required pollutant loading reductions and determine management steps

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necessary to achieve specific water quality standards. For Kohlman Lake, mass balance modeling resulted in annual TP reduction goals of 95 kg (22 percent) for watershed loading and 116 kg (88 percent) for internal loading. Beginning in 2008, several stormwater treatment and volume reduction projects (henceforth Best Management Practices or BMPs) were implemented in the watershed (Aichinger and Anderson-Wentz 2012) to satisfy TMDL requirements. To address internal TP loading in Kohlman Lake, an alum treatment was conducted in the fall of 2009 and spring of 2010 (Bartodziej et al. 2017).

Numerous field observations indicated a substantial common carp (*Cyprinus carpio*, hereafter 'carp') population in the Chain. This particular carp species is a highly invasive benthivorous fish native to the Ponto-Caspian region of Eurasia (Kohlmann and Kersten 2013). As a result of human introductions and subsequent successful colonizations, the common carp now has a global distribution and is recognized as one of the world's most pervasive and damaging invasive species (Balon 1995; Lowe et al. 2000; Weber and Brown 2009). Carp densities over 100kg/ha can cause tremendous damage to aquatic ecosystems due to its benthivorous feeding behavior (Crivelli 1983; Drenner et al. 1997; Bajer et al. 2009). Specifically, the foraging behavior of carp has been associated with declines in rooted macrophyte cover and richness (Bajer et al. 2016), increased turbidity, and increased TP loading (see review in Weber and Brown 2009). Carp can influence internal TP loading rates through both resuspension of sediments and excretion of soluble nutrients (Lamarra 1975; Parkos et al. 2003; Chumchal et al. 2005). It was also thought that carp could compromise the effectiveness and longevity of alum treatments through bottom feeding activity.

Beginning in 2009, as part of an applied research effort between the University of Minnesota and the RWMWD, carp biology, population dynamics, and control strategies were studied in the Chain. Our approach was to first conduct a series of research projects to identify any specific vulnerabilities in the resident carp population. This base of research and the need to substantially reduce in-lake TP loading provided the impetus for one of the first long-term, comprehensive carp management efforts on a major chain of lakes in the United States (Sorensen et al., in review). Management activities employed a strategy of: (1) suppressing recruitment in source habitats (e.g., upstream ponds and wetlands) and thereby cutting off the migration of new individuals to the population, and (2) reducing the existing adult carp biomass in sink habitats via the removal of adult carp from the main lakes (Dauphinais et al. 2018).

With aggressive in-lake management and numerous stormwater BMPs implemented for over a decade, it is important to determine if Lake Kohlman met eutrophication standards and if other lakes in the Chain were affected by this management. The main purpose of this paper is to (1) determine if there were significant changes in key water quality parameters in the main chain of lakes, (2) compare results for shallow versus deep lakes and discuss management implications, (3) evaluate the effectiveness of inlake versus stormwater management practices using standard water quality monitoring protocols, (4) assess water quality in two connected storm water ponds after carp elimination, and (5) discuss how carp control can be a cost-effective and practical in-lake management tool for managers seeking to improve water quality to meet state and federal water quality standards.

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#### **Key Findings**

1) Kohlman Lake - Responded soon after rigorous management was initiated. The year following the alum treatment, TP significantly declined to a mean growing season average of 54  $\mu$ g/L, putting it below the 60  $\mu$ g/L standard for shallow lakes in the Twin Cities area of Minnesota. However, growing season TP means increased over the last two years of sampling, suggesting that the efficacy of this in-lake management tool may be substantially diminished. This possible upward trend in TP will be watched closely over the next few years, and the results will certainly play into whether it can be concluded that Kohlman Lake's water quality has improved over the long-term and then can be considered for MPCA's "delisting."

- **2) Deep versus Shallow Lakes** There were marked differences in how deep versus shallow lakes responded to management in the Phalen Chain of Lakes. Generally, carp biomass reductions showed a positive influence on TP, Chl-a, and SD in ponds and shallow lakes, while standard water quality monitoring did not detect improvements in the deeper lakes, specifically Lakes Gervais and Phalen. On a positive note, these deeper lake systems are not considered "impaired" by state eutrophication standards. In addition, from a practical view, shallow pond and lake management decreased TP loading to downstream systems. However, our standard water quality sampling was not able to detect these changes.
- **3)** Carp Management in Casey Lake and Markham Pond (nursery areas) In addition to safeguarding the Phalen Chain from new carp infestations, the elimination of carp in these systems significantly improved water quality. As TP declined, Chl-a and SD responded in a way that put these systems in a clear water state. Similar to Kohlman Lake's response, these ponds supported lush macrophyte growth with mat forming filamentous algae colonizing the surfaced stands (Bartodziej et al. 2017). Recently, there has been a good deal of discussion and effort put towards the management of internal P loading and TP export from stormwater ponds. This study suggests that bottom feeding fish in stormwater ponds should be considered in the management of TP. In a tangential way, the results of source management of carp in the Phalen Chain may help to address TP export from stormwater ponds that have high densities of bottom feeding fish species.
- **4) Kohlman Creek TP Loading** It appears that average annual TP concentrations at Kohlman Creek have notably declined since 2009. Average monthly TP loads for Kolman Creek, beginning in August 2008 and extending until December 2019, were highly variable but there does not appear to be a clear downward trend. Given that higher flows can reduce BMP performance as a consequence of reduced settling or contact time, additional monitoring will be necessary to identify actual load reductions in the Kohlman Creek watershed that may occur for hydrologic conditions in-line with those used to develop the TMDL. Regardless, this analysis provides an indication of the relative effectiveness of in-lake management efforts for shallow lakes with stable external TP loads.

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#### Public Involvement and Education Program - Sage Passi

#### **Public Workshops Switch to On-line Zoom Webinars**







Free webinar series every tuesday and thursday in April with interesting speakers and relevant topics for a healthy environment.

POLLINATOR FRIENDLY

We intended to co-sponsor several in-person workshops, Planting for Pollinators/Resilient Yards with Blue Thumb and Washington Conservation District (East Metro Water Resource Education Program) in North St. Paul and Woodbury this spring, but because of the Covid 19 pandemic, these workshops were switched to online events. Participation has been quite good for these and presentation slides/recordings have been made available afterwards for anyone interested in reviewing the programs or seeing them for the first time. WCD featured six of these workshops around the county and made them available for no charge. We've been busy promoting these and other online courses and minitalks sponsored by Maplewood Nature Center and the Pollinator Friendly Alliance (PFA) through social media and emails to targeted groups and individuals.

The PFA Earth Chapters presentations have been popular and were offered twice a week on these topics: groundwater conservation, monarch conservation, ecological regenerative lawns, how to save endangered pollinators, early spring bees, the geologic history of the St. Croix watershed, Unsung Heroes/Beneficial Insects, Bat Conservation, backyard biodiversity for Pollinators, Sheet Composting Soil Preparations, Unsung Heroes: Beneficial Insects; Buckthorn Removal, Attracting Hummingbirds, How to Help Injured Spring Wildlife, Woodland Understory Diversity, Backyard Shrubs for Wildlife. They will be available online after the series is completed.

#### **Master Water Stewards Capstones Move Forward**



Three Master Water Stewards from last year's 2019 team, Ann Hagerman, Vince Tilley and Stuart Knappmiller are in the process of implementing their

capstone projects this spring and summer. Contractors ran out of time to give bids and get these projects in the ground last fall. Ann and Vince's Gervais Lake shoreline restoration project was approved by the Board in April and will be installed this spring/summer. For community outreach related to her project, Ann has discussed building a stand on her shorefront next to the road that she can supply with written handouts about her project. Many people walk along the road adjacent to the shoreline and could stop to pick up updates on the progress and reasons for her project. Stuart has been working

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through the process of finalizing the design for his project with Michael Schumann and submitted a stewardship grant application for his capstone in April which involves removal of much of the turf grass in his yard and boulevard and replacing it with pollinator plantings and a rain garden. Knappmiller's home is located south of Lake Phalen. He is very active in

multiple community organizations including the District 5 Community Council and has a lot of networks that will help him draw attention to his sustainable project in his neighborhood. Stuart and another Master Water



Steward, Bobbie Scott assisted in a clean-up around Ames

Lake in mid-April, a project originally planned with L'Etoile du Nord students.

The Roseville Master Water Stewards (2020 team) Lee Bauer, Phil Gelbach, Adam Wilke and Sam Raderbacher have been meeting virtually every other week on Saturdays in April to develop strategies for engaging the community around Willow Pond and the adjacent neighborhood in water friendly practices and the use of native plants. Phil is in the process of turning a part of his front yard into a bee lawn. Sam adopted several drains on her street and is putting her creative graphical skills to use in developing some initial design ideas for yard signs to promote some of these sustainable themes. Here is a start of one of her sign ideas that is under further development. This group is on a roll!





Lee has been taking the lead in terms of outreach by sending out emails to her neighbors encouraging them to adopt a storm drain. Several of these residents on her street have begun to do this and have formally signed up online. She asked two of her neighbors who are photographers who have documented life around the pond over the years to take pictures of the plants, wildlife and animals they see in the area this spring. She also sent out an email including a number of websites that offer resources for making yards more sustainable. The group had originally scheduled a workshop in late April for residents who live on the pond to share information with them about creating native buffers,

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adding pollinator plants, our stewardship grant program and implementing other water quality tips. For now this information will have to be shared digitally and by example!

Lee and her husband Paul are moving forward on implementing a shoreline buffer on Willow Pond that has been on the docket for about five years. They originally were targeted for a curb cut rain garden in their front yard by Master Water Stewards, Linda Neilson and Hallie Finucane, but a gas line across their boulevard precluded this project. Adam has reached out to Michael Schumann to do a site evaluation and offer some ideas for integrating native plantings in his yard. He has offered to assist the watershed with transplanting seedlings that were started by schools this winter.



Promotion of the Adopt-A-Drain program at the metro level this year coincided with the 50<sup>th</sup> anniversary of Earth Day in April. Kristin Seaman from the City of Woodbury provided us with 15 Adopt-A-Drain signs for homeowners who currently have adopted storm drains in the Carver Lake and Battle Creek subwatersheds in Woodbury. Once the stay at home orders are lifted, Hamline University students will be able to resume delivering signs to the Lake Phalen, Battle Creek, Beaver Lake and Beltline subwatershed adopters, who have not yet received them.

At last count on April 26 2020, there were 371 households that have adopted 610 stormdrains throughout our watershed district. The Beltline and the Lake Phalen sub-watersheds hold the lead with 83 and 74 residents respectively. This year, in an effort to increase visibility for the program, RWMWD will be ordering customized yard signs for residents who adopt storm drains in several other sub-watersheds where we are seeing an increase in the numbers of Adopt-A-Drain participants. These signs will indicate the nearest lake/subwatershed to which the storm drains flow and transport stormwater. We are planning to engage in email/phone communication with adopters in those communities to thank them for their participation and determine if they would like a sign.

An animated video promoting the program has just been completed in a partnership between TPT (Twin Cities PBS) and Hamline University's Center for Global and Environmental Education. You can see it here: <a href="https://www.tpt.org/clean-water-begins-curb/">https://www.tpt.org/clean-water-begins-curb/</a>

Sage joined a working group, *Developing Culturally Relevant Outreach Materials and Approaches* in a virtual meeting on April 16. Participants in this group include Tammy Schmitz, Abby Moore and Nancy Stowe, (MWMO), Angie Hong (Washington Conservation District/EMWREP), Kris Meyer and Alex VanLoh (Freshwater), Gael Zembal (NMCWD), Maya Swope (RPBCWD) and Rebecca Haug (City of Blaine). The group emerged from the February Watershed Partners meeting when a discussion about the need for translation service was initiated.

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The purpose of the working group is to develop a toolkit for engaging with different cultural/racial groups on water and environmental topics. This toolkit could include translated materials, talking points, engagement strategies, relationship building ideas, etc. A survey at the February Watershed Partners meeting resulted in the prioritization of these main topics and audiences:

- Stormwater/stormdrain basics (Residents, Businesses, Community Organizations)
- Lawn care practices (Residents, Businesses, Community Orgs-Churches, Community Organizations)
- Salt use/chlorides (Residents, Businesses, Businesses-Small businesses, Community Orgs
- Maintenance of Best Practices (BMPs)
- Stormwater ponds (subtopics to cover: drainage easement, flood risk/mitigation)
- Pet Waste
- Flooding

We intend to start by focusing on stormwater basics with three main language/cultural groups identified in survey (Hmong, Somali, Spanish). Over the summer we will also be working toward developing a panel discussion at the October Watershed Partners meeting with representation from different cultural groups.

There were many take-aways from our discussion. Here are several:

- For the panel and as we develop our contacts, we should be looking for leadership at different levels in each community—not just the most well-known leaders, but other age-groups and sub groups.
- Many studies and resources for working with different cultural groups in the Twin Cities have been done/developed over the years. It's important to recognize these and pull together some of these resources instead of re-inventing the wheel.
- Training for outreach and communication folks on how to build relationships, facilitate meaningful experiences/conversations should be a priority of this project as that is what is currently missing from our watershed education community.
- It's also important to figure out how to communicate the importance of this work and the importance of equity in the work of water resources organizations across the cities to leadership/boards/elected officials.
- Work in collaboration with different groups instead of trying to develop things FOR them, think
   WITH them.