

# Bassett Creek Watershed Management Commission



## 2020 Annual Report

Crystal • Golden Valley • Medicine Lake • Minneapolis  
Minnetonka • New Hope • Plymouth • Robbinsdale • St. Louis Park



April 2021

# Bassett Creek Watershed Management Commission 2020 Annual Report

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Cover photo: BCWMC Engineers (Barr Engineering, Co.) preparing for the Bassett Creek deep tunnel inspection at the outlet to the Mississippi River, Minneapolis. October 2020.

# Bassett Creek Watershed Management Commission

Executive Summary: 2020 Annual Report



## 2020 Activities & Achievements

In 2020, the BCWMC continued its work toward fulfilling its mission:  
*Stewardship of Water Resources to Protect and Enhance Our Communities.*

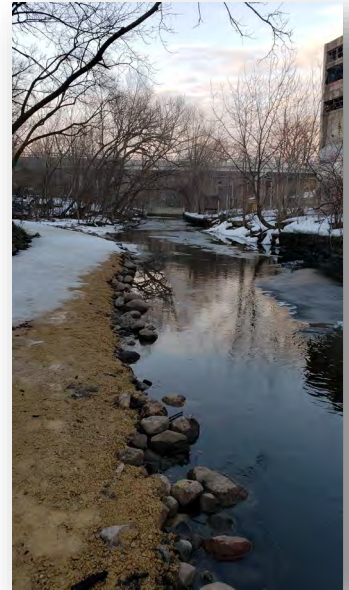
### Major Project (Capital Improvement Program)

**DeCola Ponds B & C Improvement Project:** Construction of this project in Golden Valley was completed and plants, trees and shrubs will be established in 2021. The project created 24 acre-feet of flood storage to alleviate flooding of adjacent properties and on Medicine Lake Rd. It also improves water quality and restored upland and wetland habitats.



**Main Stem Erosion Repair Project:** This project stabilized streambanks (and a popular walking path) along Bassett Creek near the Fruen Mill in Minneapolis and between Cedar Lake Rd. and the entrance to the Bassett Creek Tunnel. The project will reduce sediment and nutrient pollution in the creek and downstream in the Mississippi River.

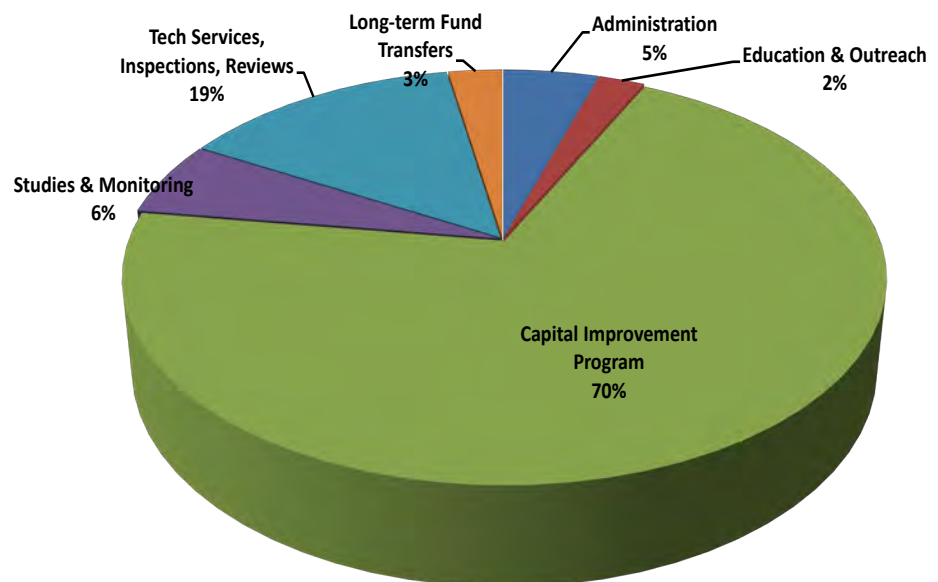
**Crane Lake Improvement Project:** This project in Minnetonka was completed 2020 in conjunction with the reconstruction of Ridgedale Drive. The project treats runoff from 13.3 acres of urban land that previously flowed untreated into Crane Lake. The project removes an estimated 9 lbs of total phosphorus and 3,500 lbs of total suspended solids from the runoff each year.



Learn more about BCWMC's capital projects: [www.bassettcreekwmo.org/projects](http://www.bassettcreekwmo.org/projects)

## Budget

In FY 2020, the BCWMC spent approximately \$744,421 on activities and programs and \$1.75 million on capital projects. BCWMC income included \$550,450 from member cities, \$178,383 in grants and reimbursements, and \$65,000 in development review fees. Another \$1.5 million was collected through a Hennepin County tax levy on watershed residents for the capital projects. For an itemization or more information on the BCWMC's 2020 expenditures, see the 2020 Operating Budget in Appendix A or the financial audit online.



2020 BCWMC Expenses

## 2020 Highlights

*The Bassett Creek Watershed Management Commission (BCWMC) is governed by a board composed of representatives from each of the nine member cities: Crystal Golden Valley Medicine Lake Minneapolis Minnetonka New Hope Plymouth St. Louis Park and Robbinsdale. Representatives are appointed by their cities and serve three-year terms.*

### Sweeney Lake Water Quality

**Improvement Project:** This project was awarded a federal 319 grant through the Minnesota Pollution Control Agency to treat curly-leaf pondweed, manage and remove carp, and perform an alum treatment on Sweeney Lake to reduce internal phosphorus levels. Work began in 2020 with a survey and herbicide treatment of curly-leaf pondweed. Carp capture and removal occurred throughout the summer with 452 carp removed from Sweeney Lake and 152 carp removed from Schaper Pond. A whole-lake alum treatment was performed in late October and a second alum treatment is planned for 2022.



**Monitoring:** In 2020, the BCWMC continued to assess its lakes and streams through a robust water monitoring program:

- Assessed the health of **Sweeney and Twin Lakes** by collecting data on water quality, plankton, and aquatic plants; and partnered with Three Rivers Park District on monitoring in **Medicine Lake**
- Completed the first year of a 2-year monitoring project on the **Sweeney Branch of Bassett Creek** including collecting data on flow, water quality, habitat, and macroinvertebrates
- Performed continuous stream flow and water quality monitoring on **Bassett Creek at the Watershed Outlet Monitoring Program** station in partnership with the Met Council, and
- Coordinated **volunteers on eight lakes** to collect water samples and data through the Met Council's Citizen Assisted Monitoring Program.

**Education & Outreach:** Despite the COVID-19 pandemic, the BCWMC continued engaging and educating watershed residents through various avenues including:

- Drafted and submitted **monthly articles** to the local newspaper, Sun Post, for an educational column on topics like reducing chlorides, raingardens, pollinator-friendly practices, precipitation changes, and AIS
- Created and posted 8 short videos on various topics similar to the columns for the Sun Post; view all the videos on the BCWMC You Tube channel: [https://www.youtube.com/channel/UCKrsWkEW8DI5FZbl93Fb\\_hg](https://www.youtube.com/channel/UCKrsWkEW8DI5FZbl93Fb_hg)
- Continued a partnership with Metro Blooms on the **Harrison Neighborhood Project** to engage residents and businesses, train youth, and install water quality practices.
- Continued **financial support** of West Metro Water Alliance, Metro Watershed Partners, Children's Water Festival, and Hennepin County River Watch.



# I. Annual Activity Report

This annual report covers the Bassett Creek Watershed Management Commission’s (BCWMC) activities for fiscal year 2020 (February 1, 2020—January 31, 2021). The BCWMC Annual Report was prepared to meet the Annual Reporting Requirements as set forth in Minn. Rules Chapter 8410.0150, subparts 1, 2, & 3.

## A. 2020 Commissioners

<b>Municipality / Term Expiration</b>	<b>Commissioners</b>	<b>Alternates</b>
<b>Crystal</b> February 1, 2024	Dave Anderson	Vacant
<b>Golden Valley</b> February 1, 2024	Stacy Harwell, Treasurer	Jane McDonald Black
<b>Medicine Lake</b> February 1, 2024	Clint Carlson	Gary Holter
<b>Minneapolis</b> February 1, 2019	Michael Welch, Vice Chair	Vacant
<b>Minnetonka</b> February 1, 2022	Michael Fruen	Vacant
<b>New Hope</b> February 1, 2022	John Elder	Pat Crough
<b>Plymouth</b> February 1, 2023	Jim Prom, Chair	Catherine Cesnik
<b>Robbinsdale</b> February 1, 2023	Wayne Sicora	Vacant
<b>St. Louis Park</b> February 1, 2023	Jim de Lambert, Secretary	Patrick Noon

## B. BCWMC Staff and Consultants

### Administrator

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## C. Mission Statement, MAWD Membership, Watershed Management Plan, Goals

The mission statement of the BCWMC is *the stewardship of water resources to protect and enhance our communities.*

In 2019, the BCWMC became a member of the Minnesota Association of Watershed Districts (MAWD) and continued their participation in 2020. The BCWMC Administrator and Commissioner Welch attended Metro MAWD meetings and the MAWD annual meeting, held virtually.

The [2015 Bassett Creek Watershed Management Plan](#) (Plan) was adopted in September 2015. The annual implementation program (Table 5-4 in Plan), Capital Improvement Program (Table 5-3 in Plan), monitoring program (Appendix A in Plan), and education and outreach program (Appendix B in Plan) are being implemented and progress is being documented and evaluated.

The BCWMC's goals, as stated in its *2015 Watershed Management Plan*, fall under the categories of water quality, flood control, erosion and sediment control, stream restoration, wetland management, groundwater, public ditches, and public involvement and information. The list of nineteen goals can be found in Section 4 of the Watershed Management Plan.

Minor amendments to the Plan were adopted in 2017 and 2018 to revise requirements for development or redevelopment of linear projects and to update the Capital Improvement Program (CIP) (Table 5-3 in

Plan). On August 20, 2020, a third minor plan amendment was adopted by the Commission to update the CIP and revise some policies related to wetland management. The watershed management plan is kept updated online at: <https://www.bassettcreekwmo.org/document/wmp-plans>.

## D. 2020 Activities

The BCWMC implemented the following projects and programs in 2020. Work associated with review of development proposals is listed in Section E. Work related to water monitoring is found in Section F.

### 1. Capital Improvement Program (CIP)

The BCWMC continued to implement its capital improvement program. The complete 10-year CIP can be found in Table 5-3 in Section 5.0 of the 2015 Watershed Management Plan. Information, photos, related documents (including final reports of completed projects), and progress on projects can be found at: <http://www.bassettcreekwmo.org/projects>. In 2020, progress on CIP projects included:

- **PROJECT COMPLETED:** The Crane Lake Improvement Project in Minnetonka was constructed in 2019 and 2020 in conjunction with the reconstruction of Ridgedale Drive. The Project treats runoff from 13.3 acres of developed land that previously flowed untreated into Crane Lake. The project removes an estimated 9 pounds of total phosphorus and 3,500 pounds of total suspended solids from the runoff each year. A final report was presented in December 2020: <https://www.bassettcreekwmo.org/projects/all-projects/crane-lake-improvement-project>.
- **PROJECT COMPLETED:** Construction is completed at the [Westwood Lake Improvement Project](#) in St. Louis Park. This project was part of a much larger reconstruction project at the Westwood Hills Nature Center (WHNC). The BCWMC CIP portion of the project includes installation of a linear water feature that captures and treats roof runoff and provides educational activities, along with a large educational sign describing watersheds and residents' role in their protection. A final report is expected in mid-2021.
- **CONSTRUCTION COMPLETED:** Project designs were completed in 2017 for the [Main Stem Erosion Repair Project in Minneapolis](#) near the Fruen Mill and downstream of Cedar Ave. Construction was expected in 2018 or 2019 but was delayed due to the unanticipated need for a field based cultural and historical survey of the project area required by the U.S. Army Corps of Engineers and failed negotiations with Pioneer Paper (a significant landowner and access grantor). This project received Environmental Response Funds from Hennepin County. Construction began in early winter 2020 and was completed in December 2020. Vegetation establishment and management will continue into 2021.
- **CONSTRUCTION COMPLETED:** Construction is complete for the [DeCola Ponds B & C Improvement Project](#) in Golden Valley; vegetation establishment and management will continue in 2021. The project will improve flood storage volumes within the project area, develop additional water quality treatment volume, and remove accumulated sediment that has collected in the north end of DeCola Pond B. The project will alleviate local flooding around Medicine Lake Road, will improve water quality downstream, and will improve ecology and wildlife habitat, enhance active and passive recreation opportunities, and provide educational opportunities.

- IMPLEMENTATION UNDERWAY: The [Sweeney Lake Water Quality Improvement Project](#) was awarded a federal 319 grant through the Minnesota Pollution Control Agency to treat curly-leaf pondweed, manage and remove carp, and perform an alum treatment on Sweeney Lake. Work began in 2020 with a survey and herbicide treatment of curly-leaf pondweed. Carp capture and removal occurred throughout the summer with 452 carp removed from Sweeney Lake, dropping population to 68 kg/ha and 152 carp removed from Schaper Pond, dropping population to 75 kg/ha. A whole-lake alum treatment was performed in late October. A second alum treatment is planned for 2022.
  
- PLANNING UNDERWAY: The feasibility study for the [Main Stem Lagoon Dredging Project](#) in Minneapolis (BC-7) was approved in spring 2020. A timeline for implementation was approved in November. Design will get underway late in 2021 with construction is slated for winter 2022/2023.
  
- PLANNING UNDERWAY: The feasibility study for the [Parkers Lake Drainage Improvement and Chloride Reduction Project \(PL-7\)](#) was approved in May 2020. The city of Plymouth contracted with WSB to design the drainage improvement project; designing got underway in late 2020. Progress on the chloride reduction activities is planned for 2021, partially in collaboration with the Hennepin County Chloride Initiative.
  
- PLANNING UNDERWAY: The feasibility study for the [Mt. Olivet Stream Restoration Project \(ML-20\)](#) was approved in May 2020. The city of Plymouth contracted with WSB to design the project; design got underway in late 2020.
  
- PLANNING UNDERWAY: Feasibility study was completed for the [Bryn Mawr Meadows Water Quality Project](#) in Minneapolis. Design and construction will coincide with park reconstruction by Minneapolis Park and Rec Board in 2022. A Clean Water Fund grant was awarded for this project in early 2020.
  
- PLANNING UNDERWAY: Two different projects for the [Four Seasons Area Water Quality Project](#) have been started and abandoned for different reasons. In 2020, the BCWMC entered an agreement with a private developer of the site to provide additional water quality treatment above and beyond what's required.
  
- STUDIES UNDERWAY: Feasibility studies for two projects slated for 2022 construction began including the [SEA School-Wildwood Flood Reduction Project](#) and the [Medley Park Stormwater Facility Project](#), both in Golden Valley.
  
- PROJECT ON HOLD: The feasibility study for the [Jevne Park Water Quality Improvement Project](#) in the City of Medicine Lake was approved in April 2019 and the project was officially ordered in September 2019. No agreement for design and construction has been approved.



## **2. Grant Administration**

- Submitted grant reports for DNR-FEMA Floodplain Modeling and Mapping Project.
- Submitted final report for Clean Water Fund grant for Community Engagement for Harrison Neighborhood Project.
- Submitted final report for Metro Watershed Based Funding for DeCola Ponds B & C Improvement Project.
- Submitted interim reports and quarterly invoices Federal 319 grant through MPCA for Sweeney Lake Water Quality Improvement Project.
- Submitted interim reports for Lawns to Legumes Neighborhood Demonstration grant project implemented through Metro Blooms.
- Submitted interim reports for Clean Water Fund grant for Bryn Mawr Meadows Water Quality Improvement Project.
- Awarded Metro Watershed Based Implementation Funding for Main Stem Lagoon Dredging Project; submitted work plan; executed agreement
- Participated in Hennepin County Chloride Initiative funded with Metro Watershed Based Funding.

## **3. Annual Report**

The BCWMC prepared the 2019 Annual Report as set forth in the Minnesota Rules Chapter 8410.0150. The report was submitted to the Board of Water and Soil Resources and is available online at the Bassett Creek Watershed Management Commission website at <http://www.bassettcreekwmo.org/document/annual-report-budget>.

## **4. Citizen Participation**

The BCWMC encourages citizen participation, including providing an opportunity at each monthly BCWMC meeting for the Commission to hear citizen-input about agenda and non-agenda items. Due to the COVID-19 pandemic in 2020, March – December meetings were held virtually. Public participation at meetings was easier and thus, more members of the public attended meetings. The BCWMC posts its meeting calendar, upcoming meeting agendas, meeting materials, and previous meeting minutes on its website ([www.bassettcreekwmo.org](http://www.bassettcreekwmo.org)) to provide citizens an opportunity to attend BCWMC and BCWMC Committee meetings and to monitor BCWMC actions.

The BCWMC held a public hearing on May 21, 2020 on the proposed minor amendment to the watershed management plan.

The BCWMC held a public hearing on September 17, 2020, regarding the 2021 proposed CIP projects: Mt. Olivet Stream Restoration Project, Parkers Lake Drainage Improvement and Chloride Reduction

Project, Cost Sharing of High Efficiency Street Sweeper for Plymouth, and Main Stem Lagoon Dredging Project. (See Section H below for further information on public involvement and education.)

## **5. BCWMC Website and Social Media**

The BCWMC regularly maintained and updated its website which features easily accessed data and information on the priority lakes and streams and BCWMC Capital Improvement Projects, along with a meeting and event calendar, interactive maps, and a document library. A “latest news” section and “featured project” on the homepage are updated regularly. The BCWMC contracts with HDR, Inc. to host the website and provide technical assistance, as needed. (Appendix C includes website analytics.)

In 2020, the BCWMC contracted with the Lawn Chair Gardener to post weekly information on the BCWMC Facebook page. The BCWMC is working on increasing the number of followers to further disseminate its news, educational messages, and information. (Appendix C includes social media analytics.)

## **6. Water Quantity**

The BCWMC continued its lake- and stream-gauging program. The lake-gauging program consisted of collecting lake-level readings at Medicine Lake, Sweeney Lake, Parkers Lake, Westwood Lake, Crane Lake (Ridgedale Pond), Northwood Lake and the Theodore Wirth Park storage area (upstream of the Highway 55 control structure). Lake levels were measured once per month through October.

The stream-gauging program consisted of periodically surveying stages or inspecting the creek during periods of high flow. The BCWMC also participated with the Metropolitan Council on the watershed outlet monitoring program (WOMP) designed to continuously monitor flow and water quality.

## **7. Watershed Inspections**

As of the 2014 fiscal year, the BCWMC no longer performs monthly erosion control inspections of construction sites within the watershed. The watershed inspection program includes BCMWC inspection of sites or sending communications to developers, only at the request of the member cities or the Commission. No inspections were requested or performed in 2020.

## **8. Flood Control Project Inspections**

In November 2020, the BCWMC performed its annual Flood Control Project inspections. The conditions of the flood control features were inspected and erosion, settlement, sedimentation, and structural issues were recorded, compiled into a report dated January 13, 2021, and reported to the Commission at its January 2021 meeting. The BCWMC distributed its findings and recommendations to the Minnesota Department of Natural Resources, the U.S. Army Corps of Engineers (Corps), and staff at the BCWMC member cities.

The BCWMC double box culvert was inspected in October 2019 with a report completed and presented to the BCWMC in July 2020.

The Commission engineer coordinated with Army Corps of Engineers (ACOE) staff to schedule the Bassett Creek deep tunnel (2nd Street Tunnel) inspection during early November 2018. The water control plan, including lowering the middle pool of the Mississippi River, was not approved and the inspection was cancelled. Based on further coordination with ACOE, the Commission engineer scheduled the tunnel inspection for the week of February 25, 2019 to minimize navigation impacts and minimize disruptions to Xcel Energy's operation of the St. Anthony Falls hydropower dam. The Corp solicited public comments on the proposed drawdown from the local community and stakeholders. Based on public comments received, the ACOE suspended its plans to drawdown the middle pool. In 2020 ACOE revised its water control plan to allow lowering the middle pool for routine inspections. The Commission engineer continued to coordinate with ACOE and a deep tunnel inspection was finally completed in October 2020. Pool drawdown also allowed ACOE and city of Minneapolis to concurrently inspect their infrastructure. Due to the exposure of the Mississippi Riverbed, there was widespread media coverage of the event. A final report on the inspection was presented to the BCWMC in March 2021. Video, photos, and presentations are available online at: <https://www.bassettcreekwmo.org/projects>.

## **9. XP-SWMM Phase II Project & FEMA Modeling Project**

At their April 16, 2015 meeting, the BCWMC approved the XP-SWMM Phase 2 work, to be phased over BCWMC fiscal years 2015 and 2016. The BCWMC continued to develop the XP-SWMM Phase 2 model during 2016. The work involved updating the watershed-wide XP-SWMM model developed in 2012 by further subdividing the watershed divides, incorporating upstream storage in ponds and wetlands, including the associated storm sewer data, using new soils data, incorporating Atlas 14 precipitation data, adjusting vertical datum's, performing flow monitoring, calibrating the model, and preparing a report. The preliminary results of the BCWMC XP-SWMM Phase 2 modeling were presented to the BCWMC Commissioners in January 2017 and the final report and the resulting updated floodplain elevations were approved in May 2017. The 2015 Watershed Management Plan was updated to reflect the new floodplain elevations and a fact sheet was developed about the modeling project and updated floodplain elevations.

The XP-SWMM Phase 2 modeling project was partially funded by a Flood Damage Reduction Grant from the MN Department of Natural Resources (MnDNR).

In 2017, the MnDNR approached the BCWMC about updating the Federal Emergency Management Agency (FEMA) hydrologic and hydraulic modeling by leveraging the XP-SWMM Phase 2 model and creating the supporting GIS files for the Bassett Creek watershed with federal grant funds that would be administered through the MnDNR. Early in 2018, the BCWMC entered into an agreement with the MnDNR to perform this work, building on the newly completed XP-SWMM model. Updates to the XP-SWMM Phase 2 model were completed in early 2018 before beginning the FEMA modeling update. In 2018, the model with the updated hydrology was submitted to the MnDNR, along with a narrative describing the changes to the model to reflect recent developments/projects in the watershed. Also in 2018, the MnDNR authorized additional survey work (completed in December 2018); the model was further updated to incorporate the results of the MnDNR and BCMWC (Barr) surveys.

In 2019, the model with updated hydraulics was submitted to the MnDNR, along with a narrative describing the hydraulic changes to the model. In October 2019, the Interagency Hydrology Review

Committee approved the updated model. Work that began in 2019 and continued in 2020 includes developing floodplain, floodway, cross section, and depth grid GIS shapefiles, developing inundation maps, and performing work in support of future community meetings.

In January 2020, the BCWMC executed an amendment to their grant agreement and work scope with the MnDNR to perform additional work and extend the schedule. The project will continue through March 2021.

**10. Development Proposals**

The following table shows the number of BCWMC development proposals reviewed for conformance to BCWMC policies (including applications submitted in previous years but reviewed during the current year). The BCWMC also reviewed multiple MnDNR appropriations/dewatering permit applications.

**Development Proposals Reviewed per Year**

<b>2020</b>	<b>2019</b>	<b>2018</b>	<b>2017</b>	<b>2016</b>	<b>2015</b>	<b>2014</b>	<b>2013</b>	<b>2012</b>	<b>2011</b>
38	28	38	44	44	38	35	41	37	32

See Section E: Project Reviews.

**11. Review and Adoption of Municipal Plans and Adjacent WMO Plans/Plan Amendments**

In 2018 and 2019, the BCWMC reviewed and approved the local water management plans of all nine member cities, each by resolution and determined that each plan was prepared in accordance with the requirements of Minnesota Statutes, Section 103B.235 and Minnesota Rules, Parts 8410.0160 and 8410.0170, and that they contained the requirements for a local plan, and were consistent with the Commission’s water management plan. No additional reviews were performed in 2020.

<b>City</b>	<b>Date Approved</b>	<b>BCWMC Resolution No.</b>
Crystal	12/20/18	18-10
Golden Valley	9/20/18	18-06
Minneapolis	11/14/18	18-09
Minnetonka	12/20/18	18-11

New Hope	11/14/18	18-07
Plymouth	11/14/18	18-08
Medicine Lake	2/21/19	19-05
Robbinsdale	2/21/19	19-04
St. Louis Park	3/21/19	19-08

## 12. Aquatic Plant Management and Aquatic Invasive Species

In 2020, the Commission continued to implement the approved [recommendations of the APM/AIS committee](#) and the [AIS Rapid Response Plan](#) by 1) partnering with Three Rivers Park District to control curly-leaf pondweed in Medicine Lake, 2) providing funds for augmented boat inspections by TRPD on Medicine Lake, and 3) monitoring waterbodies for AIS suitability parameters.

## 13. Technical Advisory Committee

Technical Advisory Committee meetings are open to the public and the meeting times and dates are posted on the BCWMC’s website. The BCWMC Technical Advisory Committee (TAC) met twice in 2020 to review and work on the items below. TAC members also regularly attend and participate in regular monthly Commission meetings and participated on the Education Committee.

- Develop the 2021 – 2025 Capital Improvement Program list using the CIP Prioritization matrix and hot spot map to target the best projects
- Finalize their review of the Commission’s water monitoring program including identifying priority program objectives, reviewing how/if objectives are being met, and recommending changes to the monitoring program
- Review CIP Implementation timelines and chloride reduction training/material needs
- Discuss possible methods for developing the 10-year CIP for the next watershed management plan including a discussion on subwatershed analyses

## 14. Impaired Waters and Total Maximum Daily Loads (TMDL) Studies

The following water bodies in the Bassett Creek Watershed are listed in the Minnesota Pollution Control Agency’s (MPCA) 2020 “*Inventory of Impaired Waters*”. The inventory includes listings of (1) impaired waters that require the development of a TMDL study, (2) impaired waters that have an approved TMDL study, but are not yet meeting water quality standards, and (3) impaired waters from



natural causes that do not require a TMDL study. The inventory is available at the MPCA’s Impaired Waters website: <http://www.pca.state.mn.us/water/tmdl/tmdl-303dlist.html>.

<b>Water Body (Lake/River ID #)</b>	<b>Pollutant or Stressor (Year of Listing)</b>
Bassett Creek from Medicine Lake to Mississippi River (07010206-538)	Fish bioassessments (2004) Fecal coliform (2008) Chloride (2010)
Plymouth Creek from Headwaters to Medicine Lake (07010206-526)	E. coli (2014) Chloride (2014)
North Branch Bassett Creek from Northwood Lake to Bassett Creek (07010206-552)	E. coli (2014)
Sweeney Lake (27-0035-01)	Nutrient/Eutrophication Biological indicators (2004) Chloride (2014)
Wirth Lake (27-0037-00)	Nutrient/Eutrophication Biological indicators (2002) – REMOVED from Impaired Waters List (2014) Mercury in fish tissue (1998) <sup>1</sup> Chloride (2016)
Medicine Lake (27-0104-00)	Nutrient/Eutrophication Biological indicators (2004) Mercury in fish tissue (1998) <sup>1</sup>
Parkers Lake (27-0107-00)	Mercury in fish tissue (1998) <sup>1</sup> Chloride (2014)
Spring Lake (27-0654-00)	Chloride (2014)
Northwood Lake (27-0627-00)	Nutrient/Eutrophication Biological indicators (2004)

<sup>1</sup> The MPCA completed a statewide mercury TMDL that was approved 2007

- Bassett Creek Fish Bioassessment Listing**—In the Final EPA-Approved MPCA 2004 CWA 303(d) List of Impaired Waters, the Main Stem of Bassett Creek, from Medicine Lake to the Mississippi River, was listed as impaired for fish (biota). In response to this listing, the MPCA completed fish sampling of the creek in 2008. The MPCA is currently reviewing the existing biota standards/listing criteria. The TMDL will be completed as part of the future watershed-wide TMDL (see “Watershed-wide TMDL”).
- Bassett Creek Fecal Coliform Listing and E. coli listings for Plymouth Creek and North Branch, Bassett Creek** —In the 2008 Final TMDL List Inventory of all Impaired Waters, Bassett Creek, from Medicine Lake to the Mississippi River, was listed as impaired for fecal coliform. In response to this listing, the BCWMC and the MPCA cooperated in collecting and analyzing E. coli samples of Bassett Creek between July 2008 and June 2010. The samples confirmed the presence of E. coli bacteria. The Bassett Creek watershed is included in the Upper Mississippi River Bacteria TMDL project. Additional data for the Upper Mississippi River E. coli TMDL was collected in 2010 and 2011, and identification of the likely sources of bacteria pollution began in 2011 and continued in

2013. Stakeholder meetings also continued in 2013. The TMDL report incorporated the draft 2014 impaired waters listings for E. coli in Plymouth Creek and North Branch, Bassett Creek, and was approved in 2014. The BCWMC provided a comment letter on the TMDL study in May, 2014, reviewed the TMDL Implementation Plan in 2015, and attended the June 25, 2015 TAC meeting to discuss the plan with MPCA staff. The final TMDL Implementation Plan was approved by the MPCA in February, 2016. The Upper Mississippi River E. coli TMDL project website maintained by the MPCA is at <https://www.pca.state.mn.us/water/tmdl/upper-mississippi-river-bacteria-tmdl-project>.

- **Sweeney Lake TMDL Study**—In the *Final EPA-Approved MPCA 2004 CWA 303(d) List of Impaired Waters*, Sweeney Lake was listed as impaired due to excess nutrients (phosphorus). The TMDL was approved on August 10, 2011.
- **Wirth Lake TMDL Study**—In the *Final EPA-Approved MPCA 2004 CWA 303(d) List of Impaired Waters*, Wirth Lake was listed as impaired due to excess nutrients (phosphorus in amounts greater than the state’s goal of 40 micrograms per liter). The Wirth Lake TMDL and implementation plan were approved October 25, 2010. The implementation plan identified one project—modifying the Wirth Lake outlet structure to prevent flow from Bassett Creek to Wirth Lake during flood periods—to achieve the annual load reductions prescribed in the TMDL. The Wirth Lake Outlet Modification Project was completed in 2012 with partial funding from a BWSR Clean Water Fund grant. The project reduces phosphorus loading to the lake by an estimated average of 55 pounds per year. A detailed comparison of the lake water quality during the past ten years with MPCA’s eutrophication standards revealed that Wirth Lake was no longer impaired for excess nutrients. A request for re-categorization was submitted to MPCA in October, 2013. In December, 2013 the BCWMC submitted a technical memorandum to MPCA requesting delisting of Wirth Lake for nutrient/eutrophication biological indicators. The memo provided a detailed water quality evaluation for MPCA consideration during the formal comment period for development of the draft 2014 impaired waters list. MPCA removed Wirth Lake from the Impaired Waters list in July, 2014.
- **Medicine Lake TMDL Study**—In the *Final EPA-Approved MPCA 2004 CWA 303(d) List of Impaired Waters*, Medicine Lake was listed as impaired due to excess nutrients (phosphorus). The TMDL and implementation plan were approved on February 8, 2011.
- **Twin Cities Metro Area (TCMA) Chloride Project** —In the *2014 Draft TMDL List Inventory of all Impaired Waters*, MPCA proposed several new impairment listings for chloride in September, 2013. Following responses to comments from BCWMC, five listings (tabulated above) remained on the 2014 Proposed Impaired Waters List (updated 4/15/2014). Based on the available monitoring data for chloride, three BCWMC water bodies—Northeast drainage to Medicine Lake, the Rockford Road drainage to Medicine Lake and Medicine Lake, were placed in a category of high-risk waters, which can be viewed as a watch list for future changes. The Twin Cities Metropolitan Area Chloride TMDL and Chloride Management Plan were approved in 2016. The TCMA Chloride Management Plan is intended to balance the public safety needs for deicing with attainment of the chronic and acute water quality standards for chloride. (The BCWMC provided comments on the draft TMDL Report and Chloride Management Plan in August 2015.) The management plan includes a performance-based approach for meeting chloride TMDLs and is also intended to

protect water bodies with water quality that is currently better than the standard. A winter maintenance assessment tool was developed to support TMDL implementation efforts. The Chloride TMDL and road salt/water quality project website maintained by the MPCA is at <https://www.pca.state.mn.us/water/road-salt-and-water-quality>.

- **TMDL Implementation Reporting** Although the BCWMC is not a MS4, the Wirth Lake, Medicine Lake, and Sweeney Lake TMDLs assigned the BCWMC a role in the implementation of the TMDLs. For example, the Medicine Lake TMDL calls for the BCWMC to serve as the “convener of action for the categorical TMDL, but not as a responsible entity.” The BCWMC’s interpretation of this role is that the BCWMC should track implementation of the TMDLs, which would likely include the following tasks:
  - Reporting on TMDL implementation activities to the MPCA. TMDL progress reports will be due one year after the MPCA issues the new MS4 permit. However, the new MS4 permit was not issued in 2012, so the BCWMC did not develop the implementation reports. The new MS4 permit became effective on August 1, 2013, which means the TMDL progress reports will be due each year after that, in June.
  - Estimating and reporting progress towards achieving the assigned wasteload allocations. The BCWMC’s watershed P8 model, originally completed in 2013 and updated annually, is an essential tool for estimating reductions in phosphorus loading.
  - Monitoring lake water quality on an annual basis. See Section G “2020 Water Quality Monitoring Data and Studies” regarding monitoring of these lakes in 2020.
  - Tracking implementation of projects and quantifying progress towards meeting the TMDL allocations for the MS4s in the impaired watersheds.

## E. BCWMC Project Reviews

The following table includes review of development proposals, Wetland Conservation Act submittals, and other plans that were submitted to the BCWMC for review. The list does not include review of capital improvement projects, and review of MnDNR appropriations/ dewatering permits.

### Proposed Projects Reviewed by BCWMC in FY 2020 <sup>1</sup>

Application Form	Project Name	Date Submitted	City	Type
2019-21	Association Free Lutheran Bible School	9/5/2019	PLY	Commercial/ Industrial/ Institutional
<b>2019-25</b>	<b>Four Seasons Mall Redevelopment</b>	<b>11/15/2019</b>	<b>PLY</b>	<b>Commercial/ Industrial/ Institutional</b>
2019-27	Suite Living Crystal	1/8/2020	CRY	Multi-residential
<b>2019-28</b>	<b>Plymouth 2020 Street Reconstruction</b>	<b>1/31/2020</b>	<b>PLY</b>	<b>Street/ Hwy/ Trails/ Utility/ Municipal</b>
<b>2020-01</b>	<b>Golden Valley 2020 PMP</b>	<b>2/4/2020</b>	<b>GV</b>	<b>Street/ Hwy/ Trails/ Utility/ Municipal</b>
2020-02	Penn Avenue Union	2/10/2020	MPLS	Multi-residential

Application Form	Project Name	Date Submitted	City	Type
2020-03	Plymouth 2020 Pond Maintenance	2/20/2020	PLY	Street/ Hwy/ Trails/ Utility/ Municipal
2020-04	CenterPoint 2020 MBLNW (Winnetka Ave)	2/21/2020	GV, NH, CRY	Street/ Hwy/ Trails/ Utility/ Municipal
2020-05	Sweeney Lake Shores PUD	3/5/2020	GV	Single-family Home
<b>2020-06</b>	<b>Leef South</b>	<b>2/28/2020</b>	<b>MPLS</b>	<b>Commercial/ Industrial/ Institutional</b>
2020-07	Utility Reconstruction Kentucky-Jersey Ave	3/25/2020	CRY	Street/ Hwy/ Trails/ Utility/ Municipal
<b>2020-08</b>	<b>Ridgedale Mall Sears Redevelopment</b>	<b>4/3/2020</b>	<b>MTKA</b>	<b>Commercial/ Industrial/ Institutional</b>
2020-09	Sunset Hill Elementary Improvements	4/13/2020	PLY	Commercial/ Industrial/ Institutional
2020-10	East Middle School Site Improvements	4/16/2020	PLY	Commercial/ Industrial/ Institutional
2020-11	Hollydale Substation Expansion	4/16/2020	PLY	Street/ Hwy/ Trails/ Utility/ Municipal
<b>2020-12</b>	<b>New Hope 2020 Infrastructure Improvements</b>	<b>4/23/2020</b>	<b>NH</b>	<b>Street/ Hwy/ Trails/ Utility/ Municipal</b>
<b>2020-13</b>	<b>W. Broadway Ave Bridges Reconstruction. (Rob/Mpls)</b>	<b>5/13/2020</b>	<b>ROB, MPLS</b>	<b>Street/ Hwy/ Trails/ Utility/ Municipal</b>
2020-14	Hennepin County Gravelbed Concrete Paving	6/2/2020	PLY	Street/ Hwy/ Trails/ Utility/ Municipal
2020-15	Plymouth Creek Center Renovation	5/26/2020	PLY	Street/ Hwy/ Trails/ Utility/ Municipal
<b>2020-16</b>	<b>Irving Ave Sanitary Sewer Replacement</b>	<b>5/27/2020</b>	<b>MPLS</b>	<b>Street/ Hwy/ Trails/ Utility/ Municipal</b>
2020-16A	Irving Ave Sanitary Sewer Replacement Diversion	12/4/2020	MPLS	Street/ Hwy/ Trails/ Utility/ Municipal
<b>2020-17</b>	<b>Bassett Creek Park North Playground</b>	<b>6/9/2020</b>	<b>MPLS</b>	<b>Street/ Hwy/ Trails/ Utility/ Municipal</b>
<b>2020-18</b>	<b>1230 Angelo Drive Shoreline Repair</b>	<b>6/12/2020</b>	<b>GV</b>	<b>Single-family Home</b>
<b>2020-19</b>	<b>Rude Landscaping 11625 26th Ave N</b>	<b>7/10/2020</b>	<b>PLY</b>	<b>Single-family Home</b>
2020-20	Retro Co. Comp Home Care Facility	7/21/2020	GV	Multi-residential
<b>2020-21</b>	<b>Brose Shoreline Repair 10112 S Shore Dr</b>	<b>7/24/2020</b>	<b>PLY</b>	<b>Single-family Home</b>
2020-22	Xchange Medical Office Building	7/30/2020	SLP	Commercial/ Industrial/ Institutional
2020-23	Plymouth Commons Drainage Improvements	9/22/2020	PLY	Street/ Hwy/ Trails/ Utility/ Municipal

Application Form	Project Name	Date Submitted	City	Type
2020-24	Ace Properties	9/14/2020	GV	Commercial/ Industrial/ Institutional
2020-25	Element Apartments (phase 2)	10/16/2020	PLY	Multi-residential
<b>2020-26</b>	<b>4930 Markay Ridge Retaining Wall</b>	<b>10/20/2020</b>	<b>GV</b>	<b>Single-family Home</b>
<b>2020-27</b>	<b>1875 Kyle Pl. Shoreline Restoration</b>	<b>10/22/2020</b>	<b>GV</b>	<b>Single-family Home</b>
<b>2020-28</b>	<b>Currie Commons</b>	<b>11/3/2020</b>	<b>MPLS</b>	<b>Multi-residential</b>
2020-29	Harbor Ln Drainage Improvements	11/6/2020	PLY	Street/ Hwy/ Trails/ Utility/ Municipal
<b>2020-30</b>	<b>10406 South Shore Dr. New Home</b>	<b>11/11/2020</b>	<b>PLY</b>	<b>Single-family Home</b>
2020-31	Sandburg Middle School 2021 LTFM	12/9/2020	GV	Commercial/ Industrial/ Institutional
<b>2020-32</b>	<b>4710 Killarney Dr. Shoreline Improvements</b>	<b>12/15/2020</b>	<b>GV</b>	<b>Single-family Home</b>
2020-33	Plymouth Fire Station 2 Reconstruction	1/25/2021	PLY	Street/ Hwy/ Trails/ Utility/ Municipal

<sup>1</sup>Projects in **bold** were presented for review and comment at a BCWMC meeting.

## F. Water Quality Monitoring Data and Studies

The following water quality monitoring and water quality studies were performed in 2020:

- Citizens Assisted Lake Monitoring Program (CAMP)** — The BCWMC participated with the Metropolitan Council Environmental Services (MCES) in its citizen-assisted lake-monitoring program (CAMP). In 2020, citizen volunteers monitored the following lakes: Twin Lake and Sweeney Lake in Golden Valley, Northwood Lake in New Hope, two sites on Medicine Lake in Medicine Lake and Plymouth, Parkers Lake, Cavanaugh Lake, and Lost Lake in Plymouth, and Westwood Lake in St. Louis Park. Reports that include CAMP monitoring results can be found on the Met Council website at: <https://metro council.org/Wastewater-Water/Services/Water-Quality-Management/Lake-Monitoring-Analysis.aspx?source=child>
- Bassett Creek WOMP Station**—Stream monitoring was performed in cooperation with the Metropolitan Council Environmental Services (MCES) as part of the stream monitoring and watershed outlet monitoring program (WOMP). The BCWMC contracts with Wenck & Associates to perform monitoring activities at this station. In late 2020, the station was moved downstream to the Van White Blvd. crossing due to construction of streambank restoration and sanitary sewer projects at the original location. <http://www.metro council.org/Wastewater-Water/Services/Water-Quality-Management/Stream-Monitoring-Assessment.aspx?source=child>
- BCWMC Stream Monitoring** – In 2020, the Commission began the first year of monitoring on Sweeney Branch Bassett Creek. This new stream program is aimed at more fully assessing the flow and water quality in its major creeks. The Commission installed seasonally-permanent monitoring equipment on the Sweeney Branch Bassett Creek in Golden Valley. Both grab and composite water



samples were collected and analyzed for nutrients, solids, bacteria, chlorides, dissolved oxygen, pH, conductivity, etc. A second year of monitoring at this site is planned for 2021.

- **Routine Lake Monitoring**—In 2020, the BCWMC monitored the water quality of Sweeney Lake and Twin Lake in Golden Valley and Medicine Lake in Plymouth (in cooperation with TRPD). Water samples were collected from the deepest location in each lake on six occasions from April through September 2020 and analyzed in the laboratory for total phosphorus, soluble reactive phosphorus, total nitrogen, chlorophyll *a*, and chlorides. Dissolved oxygen, temperature, specific conductance, pH, oxidation reduction potential (ORP), Secchi disc transparency (Secchi depth), and turbidity were measured in the field. On five occasions from June through September, water samples were collected and analyzed for phytoplankton (algae) and zooplankton (microscopic crustaceans). An aquatic plant survey was also performed on two occasions, in June and August.

Reports for each lake will be available on the BCWMC website later in 2021.

- **Monitoring by Partners** – In 2020, Medicine Lake in Plymouth and Wirth Lake in Golden Valley were monitored by the City of Plymouth/Three Rivers Park District and the Minneapolis Park and Rec Board, respectively.
- **River Watch Program**—The BCWMC continues to support the Hennepin County Environmental Services' River Watch Program. The program began in 1995 and uses student volunteers to conduct biological monitoring as a means of monitoring water quality. The grading scale used in River Watch takes into account three major biotic indices used routinely in biological monitoring programs including the Family Biotic Index, EPT (Ephemeroptera, Plecoptera, and Trichoptera), and the number of families.

Students have been monitoring Bassett Creek since 1999. Unfortunately, due to the COVID-19 pandemic, no River Watch monitoring happened in 2020.

## G. Watershed Communication/Public Education

In accordance with Minnesota Rules, Chapter 8410.0100, Subpart 4, the BCWMC utilized the following information sources for providing information to the general public:

- **Improvements and Development Requirements**—The document *Requirements for Improvements and Development Proposals*, prepared by the BCWMC (updated in 2017), is posted for use and reference on the BCWMC's website at [www.bassettcreekwmo.org/developer](http://www.bassettcreekwmo.org/developer). In 2019, the document was updated to include new procedures for submitting projects that propose to use Manufactured Treatment Devices. No updates were made in 2020.
- **Website**—The BCWMC launched a new user-friendly website in 2016 and maintained the information including latest news, contact list, meeting calendar, meeting materials, watershed plan, data, and projects. In 2020, there were 7,288 unique users (a 32% increase from 2019) and over 10,000 sessions. A copy of the website Usage Report from January 1, 2020, through December 31, 2020, is included in Appendix C.

- **BCWMC Meeting Packet**— Each month in 2020 the BCWMC posted electronic all meeting materials on its website, e-mailed the link to approximately 40 parties, and mailed paper copies of materials to those requesting them (approximately 13 people).
- **Publications**—The Commission published its public hearing notices in its official publication, *Finance and Commerce* as well as other publications including the Sun Post.

**West Metro Water Alliance (WMWA) Membership** – The BCWMC continued its participation in WMWA along with several watershed management and other water-related organizations in the west Metro area. Through WMWA, these organizations collaborated on educational campaigns including the Watershed PREP program aimed at educating 4th grade students about water resources and the impacts of stormwater. Watershed PREP has three individual lessons meeting State education standards. Lesson 1, *What is a Watershed and Why do We Care?* provides an overview of the watershed concept and is specific to each school's watershed. It describes threats to the watershed. Lesson 2, *Water Cycle - More than 2-dimensional*, describes the movement and status of water as it travels through the water cycle. Lesson 3, *Stormwater Walk*, investigates movement of surface water on school grounds.

Due to the COVID-19 pandemic in 2020, schools were forced to provide instruction primarily through online platforms, significantly hampering WMWA's ability to deliver the Watershed PREP curriculum.

A video of the Watershed PREP class was produced and distributed to schools for their use in the fall. Although it's been viewed 177 times, there is no analytic information on viewership. <https://youtu.be/bq4zKMfc-pQ>.

Despite restrictions, there were some in-person Watershed PREP lessons in 2020. Twenty classes totaling 572 students participated in Lesson 1 (including 80 students at School of Engineering and Arts in Golden Valley), and 10 classes with 256 students also participated in Lesson 2. Of these, 370 students in the Bassett Creek Watershed participated in these lessons in 2020.

Also in 2020 WMWA worked with a designer and fabricator to build a "Native Roots Display" for use at future in-person events. This table-top, interactive display encourages people to pull the roots of different native plants to compare root lengths and to note the huge difference between turf grass and native plant root length. The display is available for events, libraries, schools, city halls, and nature centers.

**Metro WaterShed Partners Membership** —The BCWMC participated as a member of the Metro WaterShed Partners as a general supporter of the program and a financial supporter of the Metro Clean Water Minnesota Media Campaign. Metro Watershed Partners maintains a listserve and a website as forums for information sharing, holds monthly meetings for members to collaborate, and coordinates the Adopt-a-Drain program. In 2020, the Clean Water Minnesota Media Campaign provided its members with regular, seasonally appropriate stories about metro area residents taking action at home and in their lives to keep water clean. These professionally produced stories

and photos are used by partners across a variety of media platforms. The BCWMC used these stories in social media and its website homepage. Find more information at [www.cleanwatermn.org](http://www.cleanwatermn.org).

**Chloride Education** – The BCWMC continued its focus on education surrounding chloride and over salting in 2020 including working with other partners in the Metro area who are concerned about over salting. The BCWMC’s Education Consultant continued developing and maintaining the "saltsmart.info" website, developed materials, and distributed hundreds salt smart information cards for residents to hand out at businesses that are applying too much salt.

In early March, BCWMC hosted a free "Smart Salting Level I for Parking Lots and Sidewalks" certification training course. Approximately 50 people attended the course including private contractors and city and park district staff.

During the holidays, BCWMC produced a video with local musicians singing about salting smart to the tune of Jingle Bells that had 310 views.

**Partnership with Metro Blooms for Harrison Neighborhood Project** – Since 2016, the BCWMC has partnered with and supported the Metro Blooms on outreach, engagement, and project installation in Near North neighborhoods in Minneapolis. The projects aim to engage residents and commercial businesses, train youth, and install water quality practices in Minneapolis’ Near North neighborhoods. The BCWMC collaborates on grant-funded projects and offers its own financial support. Since 2016, these programs have resulted in engagement with and bioswale installations on 37 residential properties; participation by neighborhood residents at multiple community block parties; engagement with 14 commercial/institutional property owners with 6 completed projects, and 20 landcare stewards trained. In 2020, the BCWMC began a partnership with Metro Blooms on a Lawns to Legumes “Northside Pollinator Project.” So far, 52 residents and 3 neighborhood associations have participated and 2,000 sq. ft. of pollinator habitat has been installed.

**Westwood Hills Nature Center** – In 2020, the BCWMC partnered with the City of St. Louis Park to design and install educational signage and interactive displays at the newly reconstructed Westwood Hills Nature Center. A large sign indoors (see photo) defines a watershed and describes best practices to reduce water pollution. Outdoors, visitors can use hand pumps to move water through a constructed stream and into a created bog. Signs in these areas include “Managing Water Like a Forest,” and “What is a Bog?” The nature center hosts tens of thousands of visitors each year (36,000 in 2017) including school groups, scouts, and residents.

**Commissioner Training Sponsorship** – The BCWMC sponsored Plymouth Alternate Commissioner Catherine Cesnik’s attendance at the Annual Salt Symposium in 2020.

**Educational Guest Columns in Local Papers** – Each month, the BCWMC education consultant, on the Commission’s behalf, submitted an article related to water resources to the Sun Post local newspaper. Many articles were published in the online newspaper and some appeared in print in the Post and/or the Sun Sailor.

January: It's time to stop treating our soil like dirt  
February: Getting to Know Your Local Government: BCWMC  
April: Nature Not Cancelled - Spring Arriving on Time  
May: The Hidden Power in Our Yards  
June: When it rains, it pollutes? Rain gardens offer a pollution solution  
July: We're All in This Together: Clean, Drain, DRY!  
August: "Bee Kind"  
September: Precipitation Whiplash  
October: A little birdy told us to "leaf a little litter" in the garden—but not in the streets  
November: Will our "hibernation" offer respite to our waters?  
December: 2020 Takeaway

**Educational Videos** – BCWMC YouTube Channel - In 2020, BCWMC started a YouTube channel and created a series of educational videos on a variety of topics. Collectively, these videos have been viewed 754 times. See them all at:  
[https://www.youtube.com/channel/UCKrsWkEW8DI5FZbl93Fb\\_hg](https://www.youtube.com/channel/UCKrsWkEW8DI5FZbl93Fb_hg)

April: What's Your Water Footprint	September: Bee Kind
May: Alternative Lawns	October: CAMP Video
June: Pay it Forward: Build a Raingarden	October: Why Wetlands?
July: Boaters to the Rescue! Clean, Drain, Dry	December: Please Salt Smart Jingle

**Social Media** – The BCWMC continued with weekly posts on its Facebook page. The BCWMC made 94 Facebook posts reaching 45,867 people and had 5,771 engagements. The page currently has 359 followers, which is a 19% increase from the previous year.

**Financial Sponsorship for Organizations** – The BCWMC financially sponsored the Children's Water Festival.

## H. Professional Services Proposal

The BCWMC solicited letters of interest for legal and engineering/technical consulting services in December 2020. The BCWMC received two proposals from legal firms and three proposals from engineering firms. The BCWMC did not take action changing its legal firm from Kennedy Graven nor its engineering consultant from Barr Engineering. As per MN State Statute, the BCWMC will solicit proposals again in 2022.

## I. Assessment of Changes in Fund Balance

A discussion of the fund balance is included in the BCWMC's annual financial audit report. A copy of the annual audit report is available on the BCWMC website at:  
<http://www.bassettcreekwmo.org/document/annual-report-budget>.

## J. Wetland Conservation Act

**1991 Wetland Conservation Act**—The interim program of the 1991 Wetland Conservation Act was effective through December 31, 1993. On January 1, 1994, the permanent program of the 1991 Wetland Conservation Act became effective. Each municipality was required to designate the local government unit (LGU) responsible for administrating the interim program and the permanent program of the 1991 Wetland Conservation Act. The following table indicates the LGU for each municipality.

<b>Municipality</b>	<b>Permanent Program (Effective 1/1/94)</b>
Crystal	Crystal
Golden Valley	Golden Valley
Medicine Lake	BCWMC
Minneapolis	Minneapolis
Minnetonka	Minnetonka
New Hope	New Hope
Plymouth	Plymouth
Robbinsdale	BCWMC
St. Louis Park	BCWMC

BCWMC = Bassett Creek Watershed Management Commission

In 2020, the BCWMC submitted to BWSR its WCA annual reporting form covering all 2020 WCA-related activities within the municipalities for which BCWMC is the LGU. The other municipalities were responsible for submitting the annual reporting form to BWSR for their respective municipality.

**Wetland Mitigation Policy**—The BCWMC’s wetland management policies specify a preference for wetland mitigation to be performed within the same subwatershed as the impacted wetland.



## II. 2021 Projected Work Plan

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**A. Capital Improvements Program (CIP)**—The BCWMC will continue to implement its capital improvements program. In 2021, this work will include:

1. **Capital Improvement Program and Prioritization**—The BCWMC will review and update its 5-year capital improvement program, and will utilize its new process of project prioritization.
2. **Progress on CIP projects:**
  - Assess the condition of Twin Lake and determine the possible need for a second dose of alum (Golden Valley) (TW-2)
  - Establish and maintain vegetation on the Main Stem Channel Restoration Project (CR2017-M) in Minneapolis from Cedar Lake Road to Irving Ave
  - Develop designs for the Main Stem Bassett Creek Lagoon Dredging Project, the Parkers Lake Drainage Improvement Project, and the Mt. Olivet Stream Restoration Project
  - Continue implementing the grant work plan for Sweeney Lake Water Quality Improvement Project including an alum treatment and carp management
  - Research and evaluate long term carp control options for Schaper Pond and Sweeney Lake through the Schaper Pond Diversion Project CIP
  - Finalize feasibility studies for the SEA School-Wildwood Flood Reduction Project and the Medley Park Stormwater Facility Project
  - Review a report on the project to cost share purchase of high efficiency street sweeper in Plymouth
  - Oversee construction of the Four Seasons Water Quality Improvement Project
3. **Grant Administration:**
  - Assist with coordinating and preparing grant reports for the Hennepin County Chloride Initiative for Metro Watershed Based Implementation Fund grant
  - Submit final grant reports FEMA Flood Risk Mapping Project through DNR
  - Submit interim reports for the Northside Minneapolis Lawns to Legumes Neighborhood Demonstration Project
  - Submit interim grant reports for the BWSR Clean Water Fund grant for the Bryn Mawr Meadows Water Quality Improvement Project

- Submit interim reports and quarterly invoices for the 319 grant from MPCA for the Sweeney Lake Improvement Project
- Submit interim reports for Metro Watershed Based Implementation Fund grant for Main Stem Lagoon Dredging Project
- Submit final report to Hennepin County for the Emergency Response Fund grant for the Main Stem Erosion Repair Project

**B. Watershed Management Plan**—In 2021 the BCWMC will seek a minor or major plan amendment to update its Capital Improvement Program.

### **C. Additional Monitoring, Studies, and Programs**

1. **BWSR Performance Review and Assistance Program** – The BCWMC’s performance on making progress toward plans set forth in its watershed plan will be assessed by the Board of Water and Soil Resources. BCWMC staff will complete necessary documentation and cooperate with BWSR staff and recommendations for improvement.
2. **Water Quantity**—The BCWMC will perform its lake- and stream-gauging program. The lake-gauging program will encompass Medicine Lake, Sweeney Lake, Parkers Lake, Westwood Lake, Crane Lake (Ridgedale Pond), Northwood Lake, Bassett Creek Park Pond and Theodore Wirth Park Storage area upstream of the TH 55 control structure. Two readings per month will be taken during the period April 1 – September 30; one reading per month will be taken outside this period. The stream-gauging program will consist of periodically surveying stages or inspecting the creek during periods of high flow. The program also includes periodic surveys of benchmarks.
3. **Flood Control Project Inspection**—The BCWMC will perform its annual flood control project inspection program, as set forth in the Bassett Creek Flood Control Project Operations and Maintenance Manual.
4. **Municipal Plan Review**—The BCWMC will review of the member cities’ local water management plans and plan amendments, and BCWMC review of adjacent WMO plans and plan amendments, as needed. The BCWMC will also ensure that proper official controls are in place in each member city as required by the 2015 Bassett Creek Watershed Management Plan.
5. **Water Quality**— Proposed water quality tasks for 2021 include:
  - **Water Quality Monitoring:** The BCWMC will perform detailed water quality monitoring as laid out in its Water Monitoring Program [http://www.bassettcreekwmo.org/application/files/7914/4676/6436/Appendix\\_A\\_Monitoring\\_Plan.pdf](http://www.bassettcreekwmo.org/application/files/7914/4676/6436/Appendix_A_Monitoring_Plan.pdf) In 2021, the BCWMC will monitor Parkers, Westwood, and Crane Lakes. The BCWMC will also continue its intensive stream monitoring program by continuing to monitor at an established site on the Sweeney Branch of Bassett Creek.
  - **Citizens Assisted Monitoring Program (CAMP):** The BCWMC has entered into an agreement with the Metropolitan Council Environmental Services (MCES) to participate in

this program in 2021. Volunteer citizens will monitor the following lakes in 2021: Twin Lake and Sweeney Lake in Golden Valley, two sites of Medicine Lake in the cities of Medicine Lake and Plymouth, Northwood Lake in New Hope, Westwood Lake in St. Louis Park, and Cavanaugh Lake, Parkers Lake and Lost Lake in Plymouth.

- **Watershed Outlet Monitoring Program (WOMP):** The BCWMC is the local sponsor of this monitoring site in cooperation and with funding support from the Metropolitan Council. The Metropolitan Council Environmental Services (MCES) provides up to \$5,000 per year in financial support to the BCWMC for operating the station and maintaining the rating curve. The BCWMC entered into an agreement with a Wenck & Associates to ensure the monitoring equipment is in working order, conduct routine maintenance of the WOMP site and equipment, collect samples, make in-situ field measurements, and coordinate sample delivery to MCES in 2021. BCWMC staff will continue to maintain the rating curve. Because the site was moved late in 2020, the rating curve needs to be re-established, requiring additional visits to the stream.
  - **River Watch Program:** The BCWMC will participate in the River Watch program managed by Hennepin County Environmental Services (HCES), as available in 2021.
6. **Development Reviews**—The BCWMC will review development and redevelopment proposals in the watershed for conformance to water quality and quantity policies.
  7. **Channel Maintenance Fund**—The BCWMC will continue to fund its Creek and Streambank Trunk System Maintenance, Repair and Sediment Removal Fund (the Channel Maintenance Fund). The BCWMC collects \$25,000 annually for the fund through an assessment paid by the member cities.
  8. **Flood Control Long-Term Maintenance Fund**—The BCWMC established a long-term maintenance fund to be used to repair structures associated with the BCWMC Flood Control Project. The BCWMC collects \$25,000 annually for the fund through an assessment paid by the member cities. The fund balance is not to exceed \$1 million.
  9. **FEMA Modeling Project** – The BCWMC will complete the MnDNR-grant funded project to improve floodplain modeling and mapping for FEMA.
  10. **APM/AIS Work** – The BCWMC will implement recommendations of the APM/AIS committee including treating curly-leaf pondweed in Medicine Lake, coordinating with Three Rivers Park District for level II AIS inspectors for French Regional Park.
  11. **TMDL Implementation Reporting**— The EPA approved the Wirth Lake TMDL on October 25, 2010, the Medicine Lake TMDL on February 8, 2011, and the Sweeney Lake TMDL on August 10, 2011. These TMDLs assigned categorical waste load allocations, which means a watershed approach is to be taken in implementing water quality improvement measures in these watersheds. In 2019, the BCWMC will continue tracking the implementation of the Medicine Lake, Sweeney Lake and Wirth Lake TMDLs. The BCWMC role will likely include the following tasks:

- Assisting the cities with reporting on TMDL implementation activities to the MPCA.
- Estimating and reporting progress towards achieving the assigned wasteload allocations. The BCWMC's watershed P8 model, completed in 2013, will be an essential tool for estimating reductions in phosphorus loading.
- Monitoring lake water quality on an annual basis. See "Water Quality" bullet above regarding monitoring of these lakes in 2021.

## **D. Education and Outreach**

The BCWMC will implement its 2021 education and outreach plan (as approved by the Commission). This plan includes financial contributions and participation in the following organizations and programs: Metro WaterShed Partners, River Watch, Citizen Assisted Monitoring Program, Metro Blooms, West Metro Water Alliance (includes staff participation), and the Children's Water Festival. The plan also includes funding for Commissioner registration fees for training or programs, participation in community events such as the Golden Valley Arts and Music Festival, writing and submitting articles in local papers, developing/posting educational videos, and maintaining its website and presence on Facebook.

In 2021, the BCWMC is also exploring ways to provide outreach and education to families in underserved, minority communities and will consider hiring and mentoring an intern from a disadvantaged background.

## **III. Annual Financial Report**

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The 2020 fiscal year for the Bassett Creek Watershed Management Commission (BCWMC) started on February 1, 2020 and ended January 31, 2021.

### **A. 2020 Approved Budget**

The approved operating budget for fiscal year 2020 was \$662,450. Each member's contribution toward the annual budget is based 50 percent on the total area of the municipality within the watershed and 50 percent on the tax capacity of the area within the watershed. A copy of the 2020 operating budget, 2020 revenues, and 2020 member-city assessment table are located in Appendix A.

### **B. Report of Revenues**

See the Financial Audit Report available online at <http://www.bassettcreekwmo.org/document/annual-report-budget>.

### **C. Report of Expenditures**

See the Financial Audit Report available online at <http://www.bassettcreekwmo.org/document/annual-report-budget>.

### **D. Financial Audit Report**

The annual audit report for the year ending January 31, 2021, was performed by Malloy Montague Karnowski Radosevich & Co., P.A. A copy of the annual audit report is available online at: <http://www.bassettcreekwmo.org/document/annual-report-budget>.



## **Appendix A**

### **2020 Financial Information**

- 2020 Budget and Notes
- 2020 Expected Revenues
- 2020 Member City Assessments

**2020 Operating Budget (Approved 8-15-19)**

	<b>2015 Budget</b>	<b>2015 Actual</b>	<b>2016 Budget</b>	<b>2016 Actual</b>	<b>2017 Budget</b>	<b>2017 Actual</b>	<b>2018 Budget</b>	<b>2018 Actual</b>	<b>2019 Budget</b>	<b>2020 Budget</b>	<b>See Notes</b>
<b>ENGINEERING &amp; MONITORING</b>											
Technical Services	120,000	116,972	120,000	112,502	125,000	140,702	125,000	126,154	130,000	130,000	(A1)
Development/Project Reviews	65,000	51,622	65,000	94,619	65,000	71,791	75,000	45,070	80,000	75,000	(A)
Non-fee and Preliminary Reviews	15,000	53,686	15,000	35,253	15,000	20,906	10,000	23,073	15,000	20,000	(B)
Commission and TAC Meetings	14,500	11,525	13,000	11,808	14,000	11,753	12,000	10,575	12,000	12,000	(C)
Surveys and Studies	20,000	22,109	25,000	24,444	20,000	16,347	12,000	-	20,000	10,000	(D)
Water Quality / Monitoring	63,000	77,429	76,000	75,892	74,300	70,855	80,700	120,728	78,000	102,600	(E)
Water Quantity	11,500	9,115	11,500	8,731	11,500	8,570	6,300	5,678	10,000	6,500	(F)
Assistance on Erosion Control Inspections	1,000		1,000	-	1,000	-	1,000	-	-	-	(G)
Annual Flood Control Project Inspections	10,000	9,996	10,000	8,867	12,000	7,678	48,000	20,279	48,000	12,000	(H)
Municipal Plan Review	2,000		2,000	2,491	8,000	1,835	8,000	26,779	4,000	2,000	(I)
Watershed Outlet Monitoring Program	17,000	15,786	17,000	17,002	15,500	19,994	20,500	18,145	20,500	20,500	(J)
Annual XP-SWMM Model Updates/Reviews					10,000	5,650	10,000	8,918	-	-	(K)
APM/AIS Work					35,000	34,920	32,000	35,977	32,000	30,000	(L)
<b>Subtotal Engineering &amp; Monitoring</b>	<b>\$339,000</b>	<b>\$368,240</b>	<b>\$355,500</b>	<b>\$391,609</b>	<b>\$406,300</b>	<b>\$411,001</b>	<b>\$440,500</b>	<b>\$441,376</b>	<b>\$449,500</b>	<b>\$420,600</b>	
<b>PLANNING</b>											
Next Generation Plan Development	30,000	28,277	-	-	-				12,000	18,000	(M)
<b>Subtotal Planning</b>	<b>\$30,000</b>	<b>\$28,277</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>		<b>\$0</b>	<b>\$0</b>	<b>\$12,000</b>	<b>\$18,000</b>	

Continued next page

Item	2015 Budget	2015 Actual	2016 Budget	2016 Actual	2017 Budget	2017 Actual	2018 Budget	2018 Actual	2019 Budget	2020 Budget	See Notes
<b>ADMINISTRATION</b>											
Administrator	62,000	59,395	62,000	59,033	67,200	60,559	67,200	59,955	69,200	69,200	(N)
MN Assoc. Watershed Dist. Dues										500	(O)
Legal	18,500	12,969	18,500	15,470	18,500	16,249	17,000	13,313	17,000	15,000	(P)
Financial Management	3,200	3,200	3,200	3,277	3,200	3,200	3,200	3,200	3,500	3,500	(Q)
Audit, Insurance & Bond	15,500	13,181	15,500	14,606	15,500	17,304	15,500	17,648	18,000	18,000	(R)
Meeting Catering Expenses	2,500	1,564	2,200	1,572	2,000	1,198	1,600	1,295	1,500	1,500	(S)
Administrative Services	32,000	29,843	25,000	11,583	18,000	13,346	15,000	14,240	15,000	15,000	(T)
<b>Subtotal Administration</b>	<b>\$133,700</b>	<b>\$120,152</b>	<b>\$126,400</b>	<b>\$105,541</b>	<b>\$124,400</b>	<b>\$111,856</b>	<b>\$119,500</b>	<b>\$109,651</b>	<b>\$124,200</b>	<b>\$122,700</b>	
<b>OUTREACH &amp; EDUCATION</b>											
Publications / Annual Report	4,000	1,430	2,500	1,246	2,500	1,138	1,500	937	1,300	1,300	(U)
Website	12,000	11,802	3,500	2,275	4,400	1,228	4,200	443	3,000	1,000	(V)
Watershed Education Partnerships	15,500	10,700	15,500	9,550	15,500	12,354	13,850	13,454	15,850	15,850	(W)
Education and Public Outreach	17,000	12,830	22,500	25,710	20,000	19,302	22,000	18,585	25,000	22,000	(X)
Public Communications	3,000	2,270	2,500	1,128	2,500	732	2,500	563	1,000	1,000	(Y)
<b>Subtotal Outreach &amp; Education</b>	<b>\$51,500</b>	<b>\$39,032</b>	<b>\$46,500</b>	<b>\$39,909</b>	<b>\$44,900</b>	<b>\$34,754</b>	<b>\$44,050</b>	<b>\$33,982</b>	<b>\$46,150</b>	<b>\$41,150</b>	
<b>MAINTENANCE FUNDS</b>											
Channel Maintenance Fund	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	(Z)
Flood Control Project Long-Term Maint.	25,000	25,000	25,000	25,000	25,000	25,000	25,000	4,000	25,000	25,000	(AA)
<b>Subtotal Maintenance Funds</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	<b>\$29,000</b>	<b>\$50,000</b>	<b>\$50,000</b>	
<b>TMDL WORK</b>											
TMDL Implementation Reporting	20,000	15,881	20,000	18,950	20,000	19,209	10,000	4,668	10,000	10,000	(BB)
<b>Subtotal TMDL Work</b>	<b>\$20,000</b>	<b>\$15,881</b>	<b>\$20,000</b>	<b>\$20,000</b>	<b>\$20,000</b>	<b>\$19,209</b>	<b>\$10,000</b>	<b>\$ 4,668</b>	<b>\$10,000</b>	<b>\$10,000</b>	
<b>GRAND TOTAL</b>	<b>\$624,200</b>	<b>\$621,582</b>	<b>\$598,400</b>	<b>\$607,059</b>	<b>\$645,600</b>	<b>\$626,820</b>	<b>\$664,050</b>	<b>\$618,677</b>	<b>\$691,850</b>	<b>\$662,450</b>	

## NOTES

(A1) Same as this year, slightly higher than 2018 and earlier due to new and more complicated issues continue to arise requiring engineer review, analyses, input.

(A) Partially funded by application fees; with the creation of the preliminary and non-fee budget category, most of the review costs will be covered by application fees. 2020 budget assumes 34 submittals at average cost of \$2,000 - \$2,500

(B) Assumes a slight increase in non-fee reviews in 2020 based on recent activity. This was a new line item in 2015 used to cover reviews for which either we do not receive an application fee or it's too early in the process for us to have received an application fee. Through agreements with Met Council, \$56,000 of these costs have been reimbursed since 2015.

(C) Includes attendance at BCWMC meetings, TAC meetings, Administrative Services Committee meetings, Budget Committee meetings and other meetings. 2015 estimate based on 24 meetings. 2016 and 2017 estimates based on 18 meetings (12 BCWMC meetings & 6 TAC meetings). 2017 budget increased to allow for additional BCWMC Engineer staff to attend Commission/TAC meetings (total of 3 assumed). 2018 and 2019 budgets were reduced from 2017. Same for 2020 budget: assumes 12 BCWMC meetings and 5 other meetings (TAC, etc.).

(D) For Commission-directed surveys and studies not identified in other categories - e.g., past work has included watershed tours, Medicine Lake outlet work, Flood Control Project Maintenance and Responsibilities, Sweeney Lake sediment monitoring, stream monitoring equipment purchase. 2018 budget was reduced from previous years for overall budget savings. 2019 budget is more in line with previous years and gives Commission flexibility to investigate or tackle unforeseen issues that arise. Proposing lowering it again in 2020 to allow for higher monitoring budget.

(E) Routine lake and stream monitoring. See details on next page.

(F) Water Quality (lake level) monitoring. 2018 budget lowered for budget savings and resulted in fewer data points. 2019 budget back to earlier budget levels. Proposed 2020 budget lowered again for budget savings. (Engineer proposes \$10,000 for 2020)

(G) After recommendations from the TAC and Budget Committee, the Commission's ended the erosion and sediment control inspection program (Watershed Inspection) in 2014 due to duplication with activities required by the member cities. Some budget remained here to provide, as requested by the Commission, some oversight of city inspection activities (reports of inspections are available from each city). However, little or no expenses have been incurred since 2014. In 2019 it was removed from budget. If inspections are needed they can be charged to general technical services.

(H) 2020 budget includes annual typical inspection of Flood Control Project (FCP) features without tunnel inspections. Budget varies widely by year depending on the FCP features being inspected. New FCP policies and inspection schedules were adopted in 2016. (See link below)

[http://www.bassettcreekwmo.org/application/files/4514/9637/1815/2016\\_FCP\\_Policies.pdf](http://www.bassettcreekwmo.org/application/files/4514/9637/1815/2016_FCP_Policies.pdf)

(I) Municipal plan approvals completed in 2019; however, this task has also included review of adjacent WMO plan amendments, and review of city ordinances; \$2,000 budget recommended in 2020 for these types of reviews.

(J) Monitoring at the Watershed Outlet Monitoring Program site in Minneapolis through an agreement with Met Council. Commission is reimbursed \$5,000 from Met Council. Met Council pays for equipment, maintenance, power, cell service, and lab analyses. Monitoring protocol changed in 2017 with collection of bi-monthly samples (up from once-per-month sampling). \$20,500 includes \$16,000 for Wenck or similar contractor + \$4,500 for Barr's data management and analyses

(K) This item is used to make updates to the XP-SWMM model, coordinate with P8 model updates, and assist cities with model use. However, no XP-SWMM updates are expected in 2019 and 2020 due to work on the grant funded FEMA modeling project. This line item will return in the 2021 operating budget

(L) Funds to implement recommendations of Aquatic Plant Management/Aquatic Invasive Species Committee likely including curly-leaf pondweed control in Medicine Lake and small grant program for launch inspectors, education/outreach, etc. by other organizations including TRPD, AMLAC, others

(M) Funding that will be set aside and accrued over next 5 years to pay for 2025 Watershed Plan development which will start in 2023.

(N) Includes \$72/hour for average of 80 hours per month.

(O) MN Association of Watershed District Annual dues. New budget item. 2019 dues were \$500 because WMOs were newly allowed to join the organization. 2020 dues were recently set at \$500 rather than the anticipated \$7,500. 2021 dues are likely to be \$7,500.

(P) For Commission attorney. Decrease recommended to be more in line with recent expenditures.

(Q) Funding for City of GV staff's monthly accounting activities and coordination of annual audit.

(R) Insurance and audit costs have risen considerably in the last few years.

(S) Meeting catering expenses from Triple D Espresso (includes delivery)

(T) Recording Secretary \$42/hr rate \* 21 hrs/mo (6.5 hrs for minutes, 14.5 for social media, writing articles, coordinating with city communication staff) + \$370 annual mileage + \$250/mo meeting packet printing/mailing + \$546 contingency

(U) Budget was decreased in last few years to be more in line with actual expenses. Costs associated with Commission Engineer assistance with annual report

(V) Based on 2017-2019 agreement with HDR for website hosting and maintenance activities and closer to actual funds spent in 2017 and 2018.

(W) Includes CAMP (\$7,000), River Watch (\$2,000), Metro Watershed Partners (\$3,500), Metro Blooms Workshops (\$3,000), Children's Water Festival (\$350). Does not allow for additional partnerships or increases in contributions. CAMP costs set by Met Council increased significantly in 2019 (after 16 years w/o increases)

(X) Includes funding for West Metro Water Alliance at \$13,000 plus \$9,000 for other educational supplies and materials including educational signage, display materials, Commissioner training, etc.

(Y) Public Communications covers required public notices for public hearings, etc.

(Z) Will be transferred to Channel Maintenance Fund

(AA) Will be transferred to Long-Term Maintenance Fund (less actual costs of FCP inspections in line (H)).

(BB) Budget reduced in 2018 and 2019 for overall budget savings. Task includes reporting on TMDL implementation and updating P8 model to include new BMPs.

**MONITORING NOTES**

<b>2020 Lake and Biotic Index Monitoring</b>	<b>Total budget</b>	<b>2020 proposed budget</b>	<b>2021 proposed budget</b>
Sweeney Lake/Twin Lake WQ Monitoring Program	\$60,000	\$50,000	\$10,000
Medicine Lake Monitoring	\$12,000	\$7,000	\$5,000
Biotic Index Program - Plymouth Creek or Sweeney Branch	\$12,000	\$5,600	\$6,400
General water quality tasks	\$10,000	\$10,000	
<b>Total</b>	<b>\$94,000</b>	<b>\$72,600</b>	<b>\$21,400</b>
<b>2020 - 2021 Stream Monitoring</b>	<b>Total</b>	<b>2020</b>	<b>2021</b>
Stream Monitoring - Plymouth Creek or Sweeney Branch	\$63,000	\$30,000	\$33,000
<b>Total</b>	<b>\$63,000</b>	<b>\$30,000</b>	<b>\$33,000</b>
<b>Total proposed budgets</b>	<b>\$157,000</b>	<b>\$102,600</b>	<b>\$54,400</b>

## MONITORING NOTES

The table below provides the details of the monitoring programs summarized above:

Budget item	Item description	Estimated cost
<b>Sweeney Lake and Twin Lake (Golden Valley) detailed lake monitoring</b>	Detailed lake monitoring includes monitoring two locations on Sweeney Lake and one location at Twin Lake on six occasions for selected parameters (total phosphorus, soluble reactive phosphorus, total nitrogen, chlorophyll a, chloride, temperature, pH, DO, specific conductance, and oxidation reduction potential), plus parameters associated with AIS vulnerability (calcium, alkalinity, hardness, sodium, magnesium, potassium, dissolved inorganic carbon, and dissolved organic carbon), sample analysis, phytoplankton and zooplankton collection and analysis, an aquatic plant survey (two occasions), calculation of aquatic plant IBIs, preparation of a presentation and preparation of a final report (following template of recent reports). Report preparation and presentation costs deferred to 2021.	<b>Total =</b> \$60,000
		<b>2020 =</b> \$50,000
		<b>2021 =</b> \$10,000
<b>Medicine Lake (Plymouth) detailed lake monitoring</b> - Field work and water chemistry analyses by Three Rivers Park District; data analyses including phytoplankton and zooplankton analyses by Commission Engineer	<ul style="list-style-type: none"> <li>• Collect water quality monitoring samples in the main basin of the lake, once just after ice-out, biweekly from May through Sept, and once in Oct. The following parameters will be measured/analyzed/collected:               <ul style="list-style-type: none"> <li>o Temperature profiles</li> <li>o Dissolved oxygen profiles</li> <li>o Specific conductance profiles</li> <li>o pH profiles</li> <li>o Secchi Disc measurements</li> <li>o Total phosphorus (3 depths) – Surface (0-2 m composite) – top of hypolimnion – and 1-m from the bottom</li> <li>o Soluble reactive phosphorus (3 depths) – Surface (0-2 m composite) – top of hypolimnion – and 1-m from bottom</li> <li>o Chlorophyll a (0-2 m)</li> <li>o Total nitrogen (0-2 m)</li> <li>o Chlorides (surface and near-bottom)</li> </ul> </li> <li>• Perform aquatic vegetation surveys – at least two surveys, one in June and one in August</li> <li>• Collect phytoplankton and zooplankton samples</li> </ul>	<b>Total =</b> \$12,000
		<b>2020 =</b> \$7,000
		<b>2021 =</b> \$5,000

**MONITORING NOTES**

<p><b>First year of two-year stream water quality/quantity monitoring effort (automatic sampling) on Plymouth Creek or the Sweeney Branch</b></p>	<p>The stream water quality monitoring program is designed to approximate the Metropolitan Council's Watershed Outlet Monitoring Program (WOMP) design for one location—Plymouth Creek or the Sweeney Branch (the final location will be monitored in years 5-6). The costs include 24 grab samples (approximately 1.5 per month for the open water period) and 16 storm samples. This approximates the change to the WOMP sampling protocols from monthly to bi-monthly samples (some WOMP stations do not collect grab samples in the winter).</p>	<p><b>Total =</b> \$63,000<sup>1</sup></p>																		
	<p>Parameters to be monitored include:</p>	<p><b>2020 =</b> \$30,000</p>																		
	<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;"> <ul style="list-style-type: none"> <li>• Total Phosphorus</li> </ul> </td> <td style="width: 33%;"> <ul style="list-style-type: none"> <li>• Dissolved Phosphorus</li> </ul> </td> <td style="width: 33%;"> <ul style="list-style-type: none"> <li>• Nitrate/Nitrite</li> </ul> </td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• Ortho Phosphorus</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• TKN</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• Ammonia N</li> </ul> </td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• Chloride</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• TSS</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• VSS</li> </ul> </td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• E. Coli</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• Chl-a</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• Alkalinity</li> </ul> </td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• Hardness</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• Metals</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• TOC</li> </ul> </td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>• Sulfate</li> </ul> </td> <td></td> <td></td> </tr> </table>	<ul style="list-style-type: none"> <li>• Total Phosphorus</li> </ul>	<ul style="list-style-type: none"> <li>• Dissolved Phosphorus</li> </ul>	<ul style="list-style-type: none"> <li>• Nitrate/Nitrite</li> </ul>	<ul style="list-style-type: none"> <li>• Ortho Phosphorus</li> </ul>	<ul style="list-style-type: none"> <li>• TKN</li> </ul>	<ul style="list-style-type: none"> <li>• Ammonia N</li> </ul>	<ul style="list-style-type: none"> <li>• Chloride</li> </ul>	<ul style="list-style-type: none"> <li>• TSS</li> </ul>	<ul style="list-style-type: none"> <li>• VSS</li> </ul>	<ul style="list-style-type: none"> <li>• E. Coli</li> </ul>	<ul style="list-style-type: none"> <li>• Chl-a</li> </ul>	<ul style="list-style-type: none"> <li>• Alkalinity</li> </ul>	<ul style="list-style-type: none"> <li>• Hardness</li> </ul>	<ul style="list-style-type: none"> <li>• Metals</li> </ul>	<ul style="list-style-type: none"> <li>• TOC</li> </ul>	<ul style="list-style-type: none"> <li>• Sulfate</li> </ul>			<p><b>2021 =</b> \$33,000</p>
	<ul style="list-style-type: none"> <li>• Total Phosphorus</li> </ul>	<ul style="list-style-type: none"> <li>• Dissolved Phosphorus</li> </ul>	<ul style="list-style-type: none"> <li>• Nitrate/Nitrite</li> </ul>																	
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<ul style="list-style-type: none"> <li>• Sulfate</li> </ul>																				
<p><b>Biotic index monitoring of Plymouth Creek or the Sweeney Branch</b></p>	<p>Biotic index monitoring to correspond with stream water quality monitoring on Plymouth Creek or the Sweeney Branch. Includes macroinvertebrate monitoring and habitat survey, macroinvertebrate analyses (microscopic identification/ enumeration), computation of HBI and M-IBI, trend analyses, data summary/analyses, and preparation of report and presentation for BCWMC meeting. Report preparation and presentation costs deferred to 2021.</p>	<p><b>Total =</b> \$12,000<sup>1,2</sup></p>																		
		<p><b>2020 =</b> \$5,600</p>																		
		<p><b>2021 =</b> \$6,400</p>																		
<p><b>General Water Quality Task</b></p>	<p>Potential items/issues include:</p> <ul style="list-style-type: none"> <li>• Inventorying chloride sources and/or improvement measures</li> <li>• Preparing for TMDL studies on Northwood Lake and the Bassett Creek fish impairments, including coordination with the MPCA</li> <li>• Internal load assessments and/or investigation(s) of alternative chemical treatments for Medicine Lake, Lost Lake, Sweeney, etc.</li> <li>• Addressing new AIS species</li> </ul> <p>If any of these become larger efforts, they could be charged to the Surveys &amp; Studies budget.</p>	<p>\$10,000</p>																		
<p><b>Total Estimated 2020 Budget</b></p>		<p><b>\$102,600</b></p>																		



**MONITORING NOTES**

<sup>1</sup>The above proposed budgets for the two-year stream water quality/quantity monitoring and biota monitoring will change if the MPCA approves the BCWMC's soon-to-be submitted request for inclusion in the MPCA's Cycle II monitoring.

<sup>2</sup> The BCWMC revised the biotic index monitoring schedule to line up with the stream monitoring schedule. This changes the frequency of the biotic index monitoring so that it is no longer consistent with the BCWMC Plan, which calls for biotic index monitoring every 3 years in Priority Streams. The most recent monitoring of all biotic index stations occurred in 2015. In 2018, biotic index monitoring occurred on the Main Stem and North Branch. By waiting to align stream monitoring with biotic index monitoring it will be 5 to 7 years between the 2015 and next monitoring events for Sweeney Lake Branch and Plymouth Creek. One will be monitored in 2020 and one in 2022. Going forward, BCWMC will have a 6 year frequency between biotic index monitoring events. The BCWMC should consider revising the monitoring plan (Appendix A of the Plan) to reflect the changes to the stream monitoring and biotic index monitoring programs.

<b>2019 Financial Information</b>	
Fund Balance as of January 31, 2019 (draft audit)	\$ 380,136
Income from assessments in 2019	\$ 529,850
Expected interest income in 2019	
Expected income from project review fees	\$ 60,000
Expected income from CIP Administrative Funds	\$ 28,000
Expected transfer from Long-term Maint Fund for Flood Control Project I	\$ 48,000
Expected income from WOMP reimbursement	\$ 5,000
Expected income from reimbursements from 2019 work <sup>1</sup>	\$ 10,000
Estimated funds available for fiscal year 2019	\$ 1,060,986
Estimated expenditures for fiscal year 2019	\$ 691,850
Estimated fund balance as of January 31, 2020	\$ 369,136
<sup>1</sup> SWLRT = \$7,000; BLLRT = \$3,399	
<b>2020 Revenues</b>	
<b>Expected Income</b>	<u>Original</u>
Proposed Assessments to cities	\$ 550,450
Use of fund balance	\$ 15,000
CIP Administrative Funds (2.0% of est. requested levy of \$1.5M)	\$ 30,000
Project review fees	\$ 50,000
Transfer from Long-term Maint Fund for Flood Control Proj Inspections	\$ 12,000
WOMP reimbursement	\$ 5,000
Expected reimbursement for Blue Line LRT work	\$ -
Interest income in 2020	\$ -
	\$ 662,450
<b>Expected Expenses</b>	
Total operating budget	\$ 662,450
<b>Fund Balance Details</b>	
Est. Beginning Fund Balance (Jan 31, 2020)	\$ 369,136
Use of Fund Balance (see income above)	\$ 15,000
Est. Remaining Fund Balance (Jan 31, 2021)	\$ 354,136

**City Assessments**

	2015	2016	2017	2018	2019	2020
<b>Community</b>	<b>\$490,345</b>	<b>\$490,345</b>	<b>\$500,000</b>	<b>\$515,050</b>	<b>\$529,850</b>	<b>\$550,450</b>
Crystal	\$25,868	\$25,771	\$25,704	\$26,904	\$27,877	\$29,062
Golden Valley	\$121,964	\$127,675	\$131,270	\$134,649	\$138,553	\$144,693
Medicine Lake	\$3,543	\$3,600	\$3,561	\$3,783	\$3,846	\$3,975
Minneapolis	\$33,235	\$32,885	\$33,609	\$34,763	\$35,805	\$37,631
Minnetonka	\$28,121	\$27,536	\$28,199	\$28,053	\$28,989	\$29,967
New Hope	\$25,681	\$25,627	\$25,917	\$26,740	\$27,987	\$28,987
Plymouth	\$225,159	\$220,974	\$224,531	\$231,682	\$237,986	\$245,942
Robbinsdale	\$7,587	\$7,843	\$7,747	\$8,189	\$8,523	\$8,937
St. Louis Park	\$19,184	\$18,433	\$19,463	\$20,287	\$20,284	\$21,257
<b>TOTAL</b>	<b>\$490,345</b>	<b>\$490,345</b>	<b>\$500,000</b>	<b>\$515,050</b>	<b>\$529,850</b>	<b>\$550,450</b>

Community	For Taxes Payable in 2019	2019 Percent of	Area Watershed	Percent of	Average
	Net Tax Capacity	Valuation	in Acres	of Area	Percent
Crystal	\$9,014,087	5.47	1,264	5.09	5.28
Golden Valley	\$42,743,405	25.95	6,615	26.63	26.29
Medicine Lake	\$1,059,589	0.64	199	0.80	0.72
Minneapolis	\$11,317,855	6.87	1,690	6.80	6.84
Minnetonka	\$10,589,981	6.43	1,108	4.46	5.44
New Hope	\$9,048,320	5.49	1,252	5.04	5.27
Plymouth	\$70,171,876	42.59	11,618	46.77	44.68
Robbinsdale	\$3,061,898	1.86	345	1.39	1.62
St. Louis Park	\$7,736,955	4.70	752	3.03	3.86
<b>TOTAL</b>	<b>\$164,743,966</b>	<b>100.00</b>	<b>24,843</b>	<b>100.00</b>	<b>100.00</b>

**Appendix B**  
**2020 Resolutions**



# Bassett Creek Watershed Management Commission

## RESOLUTION NO. 20-01

Member J. delambert introduced the following resolution and moved its adoption:

A RESOLUTION APPROVING THE REIMBURSEMENT TO THE BASSETT CREEK WATERSHED MANAGEMENT COMMISSION 2.0% OF THE TAX LEVY REQUEST TO HENNEPIN COUNTY FOR COLLECTION IN 2019, FOR ADMINISTRATIVE EXPENSES FOR CAPITAL IMPROVEMENT PROGRAM (CIP) PROJECTS AND APPROVING THE TRANSFER OF THE FUNDS FROM THE CIP ACCOUNT TO THE ADMINISTRATIVE ACCOUNT

BE IT RESOLVED by the Bassett Creek Watershed Management Commission of the Cities of Crystal, Golden Valley, Medicine Lake, Minneapolis, Minnetonka, New Hope, Plymouth, Robbinsdale, and St. Louis Park that:

1. The Bassett Creek Watershed Management Commission (BCWMC) will be reimbursed \$28,720, which is 2.0% of the BCWMC's August 2018 tax request in the amount of \$1,436,000 to Hennepin County for collection in 2019, for administrative expenses for Capital Improvement Projects.
2. The Bassett Creek Watershed Management Commission directs its Deputy Treasurer to transfer the reimbursed funds from the Commission's CIP Account to its Administrative Account.

  
 \_\_\_\_\_  
 Vice Chair Date

Attest

  
 \_\_\_\_\_  
 Secretary Date

The motion for adoption of the foregoing resolution was seconded by Member D. Anderson and upon a vote being taken thereon, the following voted in favor thereof: 7 and the following voted against the same 0 whereupon said resolution was declared duly passed and adopted.



## Bassett Creek Watershed Management Commission

RESOLUTION NO. 20-02

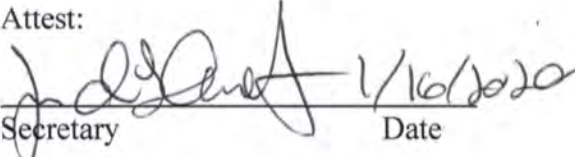
Member J. de Lambert introduced the following resolution and moved its adoption:

A RESOLUTION APPROVING THE TRANSFER OF BASSETT CREEK WATERSHED MANAGEMENT COMMISSION FUNDS FROM THE ADMINISTRATIVE ACCOUNT TO THE EROSION/SEDIMENT (CHANNEL MAINTENANCE) ACCOUNT AND FROM THE FLOOD CONTROL LONG-TERM MAINTENANCE ACCOUNT TO THE ADMINISTRATIVE ACCOUNT

BE IT RESOLVED by the Bassett Creek Watershed Management Commission that:

1. \$25,000 will be transferred from the Bassett Creek Watershed Management Commission's Administrative Account to the Erosion/Sediment (Channel Maintenance Fund) account.
2. \$19,593 will be transferred from the Bassett Creek Watershed Management Commission's Flood Control Long-Term Maintenance account to the Administrative Account to cover the estimated costs of the 2019 BCWMC Flood Control Project inspections of \$44,593 less the \$25,000 already in the Administrative Account for 2019 inspections.

  
\_\_\_\_\_  
Vice Chair Date

Attest:  
  
\_\_\_\_\_  
Secretary Date

The motion for adoption of the foregoing resolution was seconded by Member D. Anderson and upon a vote being taken thereon, the following voted in favor thereof: 7 and the following voted against the same 0 whereupon said resolution was declared duly passed and adopted.



**RESOLUTION 20-03**

Member G. Holter introduced the following resolution and moved its adoption:

**RESOLUTION DESIGNATING DEPOSITORIES FOR  
BASSETT CREEK WATERSHED MANAGEMENT COMMISSION FUNDS**

BE IT RESOLVED by the Bassett Creek Watershed Management Commission of the Cities of Crystal, Golden Valley, Medicine Lake, Minneapolis, Minnetonka, New Hope, Plymouth, Robbinsdale, and St. Louis Park that the following are named as depositories for funds, subject to the furnishing of collateral for funds on deposit as provided in the Laws of the State of Minnesota: **RBC Dain Rauscher; Wells Fargo; 4M Fund; U.S. Bank**

BE IT FURTHER RESOLVED that a sweep account will be used for nightly balances.


BE IT FURTHER RESOLVED that the following signatories or alternates are authorized to be signatories on checks drawn on funds deposited:

General Checking: Chair or Vice Chair and Treasurer or Deputy Treasurer  
Each check shall require two signatures.

BE IT FURTHER RESOLVED that the following shall be authorized to make investments of the Bassett Creek Watershed Management Commission and shall be authorized to deposit the principal of said investments in the above named depositories as necessary and beneficial to the Bassett Creek Watershed Management Commission: Deputy Treasurer of the Bassett Creek Watershed Management Commission, or Accounting Coordinator for City of Golden Valley.

The Deputy Treasurer shall supply each of the depositories with certified copies of this resolution along with such signature documentation as is required by the depository and the authorizations set forth above.

Adopted by the Board of the Bassett Creek Watershed Management Commission this 20<sup>th</sup> day of February 2020.

  
Chair

ATTEST:  
  
Secretary Date

The motion for the adoption of the foregoing resolution was seconded by Member M. Welch and upon a vote being taken thereon, the following voted in favor thereof: 8 and the following voted against the same 0 whereupon said resolution was declared duly passed and adopted.



## Bassett Creek Watershed Management Commission

RESOLUTION NO. 20-04

Member G. Holter introduced the following resolution and moved its adoption:

A RESOLUTION APPROVING THE TRANSFER OF BASSETT CREEK WATERSHED MANAGEMENT COMMISSION FUNDS FROM THE ADMINISTRATIVE ACCOUNT TO THE NEXT GENERATION PLAN DEVELOPMENT SAVINGS ACCOUNT

WHEREAS the Bassett Creek Watershed Management Commission must prepare a comprehensive watershed management plan every 10 years; and

WHEREAS the next generation of the Bassett Creek Watershed Management Plan is due to the State of Minnesota by September 2025; and

WHEREAS the development of the next generation watershed management plan is expected to cost approximately \$120,000; and

WHEREAS the Bassett Creek Watershed Management Commission wishes to collect funds each year between fiscal year 2019 and 2025 in order to save for future plan development.

THEREFORE, BE IT RESOLVED by the Bassett Creek Watershed Management Commission that

1. \$12,000 will be transferred from the fiscal year 2019 Bassett Creek Watershed Management Commission's Administrative Account the Next Generation Plan Development Savings Account

[Signature] 2-20-2020  
Chair Date

Attest:  
[Signature] 2/10/2020  
Secretary Date

The motion for adoption of the foregoing resolution was seconded by Member M. Welch and upon a vote being taken thereon, the following voted in favor thereof: 8 and the following voted against the same 0 whereupon said resolution was declared duly passed and adopted.



BASSETT CREEK WATERSHED MANAGEMENT COMMISSION  
RESOLUTION NO. 20-05

RESOLUTION AUTHORIZING EXECUTION OF WAIVER FORM RELATING TO TORT  
LIMITS FOR LIABILITY INSURANCE AND NOT WAIVING SUCH TORT LIMITS

WHEREAS, the Bassett Creek Watershed Management Commission ("Commission") is a joint powers watershed management organization established by the cities of Crystal, Golden Valley, Medicine Lake, Minneapolis, Minnetonka, New Hope, Plymouth, Robbinsdale, and St. Louis Park in accordance with Minnesota Statutes, section 103B.211; and

WHEREAS, the Commission is insured for tort liability matters by the League of Minnesota Cities Insurance Trust ("LMCIT"); and

WHEREAS, as part of its liability insurance coverage with LMCIT, the Commission is required to elect annually whether to waive the statutory tort liability limits stated in Minn. Stat. § 466.04; and

WHEREAS, staff has recommended that the Commission not waive the tort cap limits in order to mitigate the Commission's tort liability as permitted by law; and


WHEREAS, a decision to not waive the tort cap limits reasonably protects the Commission and limits its potential liability while allowing an individual claimant to recover damages as provided by law.

NOW, THEREFORE, BE IT RESOLVED by the Bassett Creek Watershed Management Commission that the Commission Administrator is authorized to execute the LMCIT Liability Coverage Waiver Form on behalf of the Commission by indicating that the Commission elects not to waive the statutory limitation on tort liability.

Adopted this 21<sup>st</sup> day of May, 2020.

ATTEST:

  
Secretary

  
Chair

BASSETT CREEK WATERSHED MANAGEMENT COMMISSION  
RESOLUTION NO. 20-06

A RESOLUTION ORDERING THE 2021 IMPROVEMENTS,  
DESIGNATING ENTITIES RESPONSIBLE FOR CONSTRUCTION,  
MAKING FINDINGS PURSUANT TO MINNESOTA STATUTES, SECTION  
103B.251, CERTIFYING COSTS TO HENNEPIN COUNTY, AND APPROVING  
AGREEMENTS FOR CONSTRUCTION OF THE IMPROVEMENTS

WHEREAS, on September 17, 2015, the Bassett Creek Watershed Management Commission (“Commission”) adopted the *Bassett Creek Watershed Management Commission, Water Management Plan, September 2015* (the “Plan”);

WHEREAS, the Plan, as amended since its adoption, includes a capital improvement program (“CIP”) listing capital projects in Table 5-3 of the Plan;

WHEREAS, the CIP includes the following capital projects for the year 2021 (collectively, the “2021 Projects”):

- a) Mt. Olivet Stream Restoration Project (ML-20)
- b) Parkers Lake Drainage Improvement Project (PL-7)
- c) Cost Share Purchase of High Efficiency Street Sweeper (ML-23)
- d) Dredging Accumulated Sediment in Main Stem Bassett Creek, Theodore Wirth Regional Park Project (BC-7); and

WHEREAS, the Plan specifies a county tax levy under Minnesota Statutes, section 103B.251 as the source of funding for the 2021 Projects; and

WHEREAS, on September 17, 2020, following published and mailed notice in accordance with the Commission’s Joint Power Agreement and Minnesota Statutes, section 103B.251, the Commission conducted a public hearing on the 2021 Projects; and

WHEREAS, the 2021 Projects will be conducive to the public health, promote the general welfare and is in compliance with Minnesota Statutes, sections 103B.205 to 103B.255 (the “Act”) and with the Plan as adopted and amended in accordance with the Act.

NOW, THEREFORE, BE IT RESOLVED, by the Board of Commissioners of the Bassett Creek Watershed Management Commission as follows:

1. The 2021 Projects are hereby ordered.
2. The estimated cost of the Mt. Olivet Stream Restoration is One Hundred Seventy-Eight Thousand One Hundred Dollars (\$178,100) which will be paid from funds received from a county tax levy pursuant to Minnesota Statutes, section 103B.251 levied in 2020 for collection in 2021.
3. The estimated cost of the Parkers Lake Drainage Improvement Project is Four Hundred Eighty-Five Thousand Dollars (\$485,000) which will be paid from funds received from a county tax levy pursuant to Minnesota Statutes, section 103B.251 levied in 2020 for collection in 2021.



4. The estimated cost of the Cost Share Purchase of High Efficiency Street Sweeper is Eighty-One Thousand Six Hundred Dollars (\$81,600) which will be paid from funds received from a county tax levy pursuant to Minnesota Statutes, section 103B.251 levied in 2020 for collection in 2021.
5. The estimated cost of the Dredging Accumulated Sediment in Main Stem Bassett Creek, Theodore Wirth Regional Park Project is Three Million Two Hundred Fifty-Nine Thousand Dollars (\$3,259,000). Of this amount, One Hundred Thousand Dollars (\$100,000) will be paid from funds received from a county tax levy pursuant to Minnesota Statutes, section 103B.251 levied in 2020 for collection in 2021. Additional funds of up to One Million Two Hundred Thousand Dollars (\$1,200,000) will be paid from Commission Closed Project Account funds and up to One Million Nine Hundred Fifty-Nine Thousand Dollars (\$1,959,000) will be received from a county tax levy pursuant to Minnesota Statutes, section 103B.251, levied in years 2021 – 2023 for collection in 2022 – 2024.
6. The cost of the Bryn Mawr Meadows Water Quality Improvement Project (BC-5) was partially paid from a county tax levy collected in 2020 totaling One Hundred Thousand Dollars (\$100,000). Another Four Hundred Thousand Dollars (\$400,00) will come from a state grant. The remaining estimated cost of the project is Four Hundred Twelve Thousand Dollars (\$412,000) to be paid from funds received from a county tax levy pursuant to Minnesota Statutes, section 103B.251 levied in 2020 for collection in 2021.
7. The cost of the Sweeney Lake Water Quality Improvement Project (SL-8) was partially paid from a county tax levy collected in 2020 totaling Twenty Thousand Dollars (\$20,000). Another Three Hundred Thirty Thousand Dollars (\$330,000) will come from a federal grant. The remaining cost of the project is Two Hundred Eighteen Thousand and Eighty Dollars (\$218,080) to be paid from funds received from a county tax levy pursuant to Minnesota Statutes, section 103B.251 levied in 2020 for collection in 2021.
8. The total amount certified to Hennepin County for the 2021 Projects is One Million Four Hundred Seventy-Four Thousand Seven Hundred Eighty Dollars (\$1,474,780) for payment by the County in accordance with Minnesota Statutes, section 103B.251, subdivision 6.
9. The Commission has received, accepted, and approved all feasibility reports prepared for the 2021 Projects.
10. The costs of the 2021 Projects will be paid by the Commission up to the amount specified in paragraphs 2 - 6 above from proceeds received from Hennepin County pursuant to Minnesota Statutes, section 103B.251 and grant funding, if awarded. Additional costs may be paid by the city constructing the particular project, but no costs will be charged to other members of the Commission.
11. The City of Plymouth is designated as the member responsible for contracting for the construction of the Mt. Olivet Stream Restoration Project, and the engineer designated for preparation of plans and specifications is the Plymouth City Engineer, or other engineers selected and retained by the City of Plymouth. Contracts for construction shall be let in accordance with the requirements of law applicable to the City of Plymouth. The Cooperative Agreement with the City of Plymouth for the construction of the Mt. Olivet Stream Restoration Project is approved, and the Chair and Secretary are authorized to execute the agreement on behalf of the Commission.
12. The City of Plymouth is designated as the member responsible for contracting for the construction of the drainage improvement components and other implementation related to the Parkers Lake Drainage

Improvement Project, and the engineer designated for preparation of plans and specifications is the Plymouth City Engineer, or other engineers selected and retained by the City of Plymouth. Contracts for the project shall be let in accordance with the requirements of law applicable to the City of Plymouth. The Cooperative Agreement with the City of Plymouth for the Parkers Lake Drainage Improvement Project is approved, and the Chair and Secretary are authorized to execute the agreement on behalf of the Commission.

13. The City of Plymouth is designated as the member responsible for implementing the Cost Share Purchase of High Efficiency Street Sweeper Project. The Cooperative Agreement with the City of Plymouth for the implementation of the Cost Share Purchase of High Efficiency Street Sweeper Project is approved, and the Chair and Secretary are authorized to execute the agreement on behalf of the Commission
14. The Commission is the entity responsible for contracting for the construction of the Dredging Accumulated Sediment in Main Stem Bassett Creek, Theodore Wirth Regional Park Project. Contracts for construction shall be let in accordance with the requirements of law applicable to the Commission.

Adopted by the Board of Commission of the Bassett Creek Watershed Management Commission the 17<sup>th</sup> day of September, 2020.

ATTEST:   
Secretary

  
Chair

**Appendix C**  
**2020 Website Usage and Social Media Report**

Untitled Dashboard

Jan 1, 2020 - Dec 31, 2020

All Users  
100.00% Sessions

Total Unique Users

**7,288**  
% of Total: 100.00% (7,288)



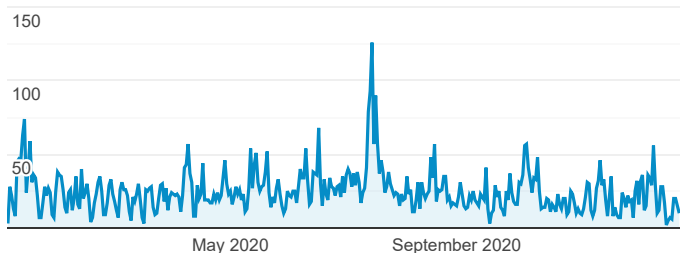
Sessions

**10,197**  
% of Total: 100.00% (10,197)



Users

Users



Avg. Session Duration

**00:02:08**  
Avg for View: 00:02:08 (0.00%)



Avg Pages per Session

**2.23**  
Avg for View: 2.23 (0.00%)

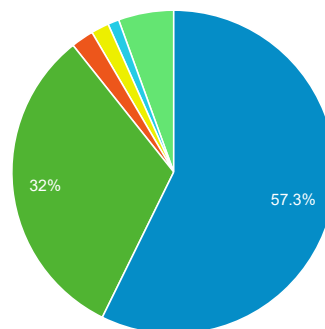


Sessions by City

City	Sessions
Minneapolis	1,587
Golden Valley	824
Plymouth	719
Eden Prairie	631
(not set)	397
Saint Paul	382
Mnettonka	311
St. Louis Park	308
Chicago	250
Cheyenne	199

Traffic Source

google (direct) bottraffic.xyz bing  
bringmethenews.com Other



Pages by Session

Page	Sessions
/	3,433
/lakes-streams/twin-lake	1,141
/lakes-streams/medicine-lake	567
/lakes-streams/plymouth-creek	490
/lakes-streams/sweeney-lake	465
/lakes-streams/lost-lake	263
/lakes-streams/northwood-lake	247
/lakes-streams/main-stem-bassett-creek	245
/lakes-streams/parkers-lake	217
/projects	205

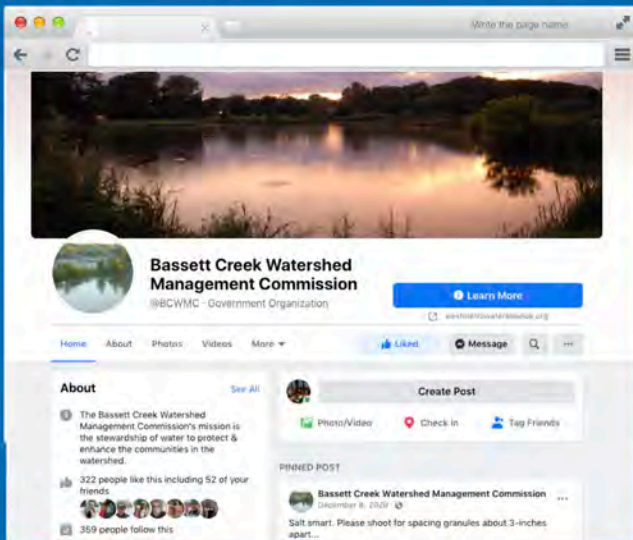
Sessions by Browser

Browser	Sessions
Chrome	6,000
Safari	2,513
Internet Explorer	601
Edge	412
Firefox	336
Safari (in-app)	101
Samsung Internet	91
UC Browser	58
Android Webview	36
"	16





# facebook



## 2020 Report

01/01/2020 – 12/31/2020



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Total Page Followers  
**359**

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# 2020 Facebook Page Overview

Last Year - 01/01/2020 – 12/31/2020



Number of Posts



Reach

BCWMC post  
appeared in  
news feeds



Post Engagements

Clicks, reactions,  
comments, or  
shares



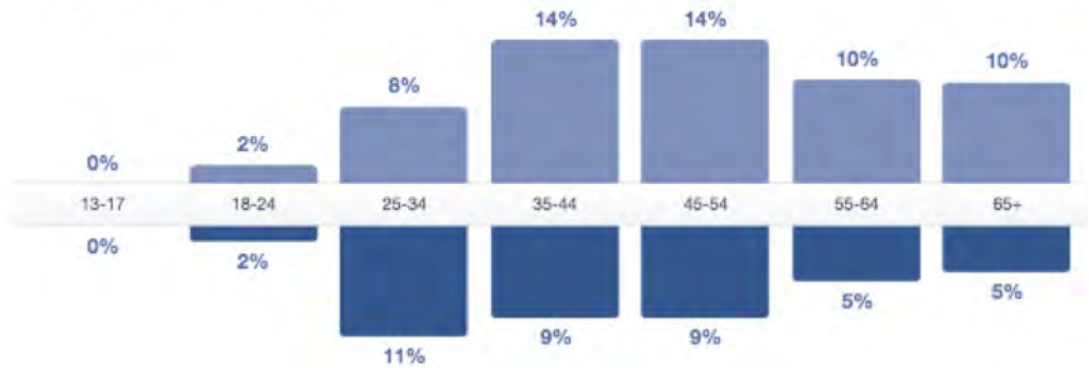
The people who follow your Page. This number is an estimate.

**Women**

**58%**  
Your Followers

**Men**

**41%**  
Your Followers



Country	Your Followers	City	Your Followers	Language	Your Followers
United States of America	324	Minneapolis, MN	82	English (US)	321
Afghanistan	2	Golden Valley, MN	17	English (UK)	5
United Kingdom	1	Saint Paul, MN	16	Spanish	3
Ireland	1	Plymouth, MN	12	Persian	1
India	1	Crystal, MN	9		
Tanzania	1	Rochester, MN	6		

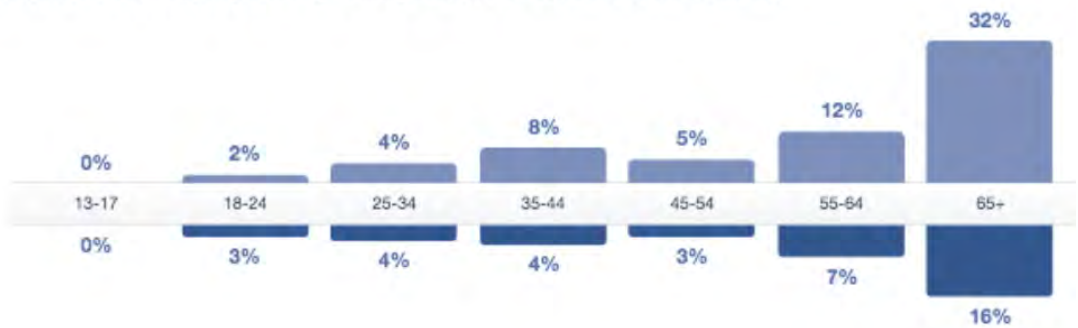
The number of People Talking About the Page by user age and gender. This number is an estimate.

**Women**








































**63%**  
People Engaged

**Men**

**36%**  
People Engaged















Salt

Published	Post	Type	Targeting	Reach	Engagement
12/21/2020 3:42 PM	 Happy holidays to the over 2,100 City of Minneapolis			87	0 6
12/18/2020 1:12 PM	 Clean water is a great gift for everyone. And it always			30	1 5
12/15/2020 7:02 AM	 BCWMC and the city of Golden Valley are			43	1 0
12/08/2020 4:21 PM	 Salt smart. Please shoot for spacing granules about 3-			9.4K	149 135
12/07/2020 8:10 PM	 BCWMC and the city of Golden Valley are			94	0 0
11/29/2020 7:07 AM	 BCWMC and the city of Golden Valley are			46	3 2
11/20/2020 10:07 AM	 Salt smart. 3-inches apart.			99	0 3
11/19/2020 9:45 AM	 BCWMC and the city of Golden Valley are			57	7 3
11/11/2020 1:56 PM	 The Children's Water Festival in online this year.			42	1 0
11/02/2020 2:26 PM	 Water defenders and artists wanted! Hennepin County is			49	1 2
10/29/2020 3:06 PM	 Salt (aka chloride) management is immensely			41	1 1
10/26/2020 9:59 AM	 Do you know all of the reasons why wetlands are			46	1 11
10/23/2020 8:00 AM	 We are proud to be working with Metro Blooms and			151	8 10












Published	Post	Type	Targeting	Reach	Engagement
10/22/2020 3:53 PM	 Can you paddle Bassett Creek?			85	21 6
10/20/2020 10:50 AM	 Adopt a drain to keep lakes and creeks clean! It's so			34	2 5
10/15/2020 10:47 AM	 Thank you CCX Media for the informative video about			63	16 29
10/15/2020 8:10 AM	 Rake up to protect lakes and rivers from leaf litter -			21	0 0
10/12/2020 3:11 PM	 Until recently, water management organizations			50	3 2
10/08/2020 8:28 PM	 Crowds flock to rare Mississippi River drawdown			37	0 3
10/06/2020 3:03 PM	 Save the date!			43	1 2
10/02/2020 1:08 PM	 Commission Engineers are planning an inspection of			57	8 33
10/01/2020 4:50 PM	 A special thank you to our CAMP (Citizen-Assisted			73	4 6
09/24/2020 6:00 PM	 Waterfowl hunters here's how to avoid spreading			35	0 6
09/16/2020 9:46 PM				40	0 6
09/16/2020 5:11 PM	 Thanks Washington Conservation District for			31	0 1
09/08/2020 4:46 PM	 Do you buy hunting or fishing licenses and wonder			27	0 2
09/01/2020 0:12 PM	 Hat off to our partners for their great work! Blue			34	0 1

Plant for  
pollinators &  
clean water

Published	Post	Type	Targeting	Reach	Engagement
09/01/2020 5:26 PM	 Got plans this weekend? Fall is a great time to plant			899	41 70
08/25/2020 3:45 PM	 Time to get serious about reducing our fossil fuels to			34	1 3
08/22/2020 8:00 AM	 The Water Main initiative at American Public Media has			27	0 1
08/21/2020 9:04 AM	 The Met Council uses the Clean Water Fund to			32	0 1














































08/19/2020 11:50 AM	 Calling all water nerds! Slides from the annual Salt			33	2 2
08/14/2020 7:19 PM	Build-a Birdfeeder online workshops: 3 more			28	0 0
08/13/2020 5:27 PM	 Check out Mississippi Watershed Management			51	2 1
08/13/2020 5:23 PM	 We applaud the Wetland Health Evaluation Program			39	0 4

AIS

07/30/2020 4:25 PM	 Clean. Drain. Dry. Share!			2.4K	51 45
07/20/2020 4:12 PM	 The Bassett Creek tunnel is a huge part of our history			50	4 3
07/15/2020 11:15 AM	 Citizen Science: Bumble bees Participate in			36	0 2
07/13/2020 10:29 AM	 This is an amazingly educational and interesting			30	1 3




































Plant for  
pollinators &  
clean water

07/09/2020 2:08 PM	 Pay it forward with a raingarden!			1.8K	79 56
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
































Published	Post	Type	Targeting	Reach	Engagement
07/02/2020 11:24 PM	 How many of your are enjoying one of our amazing			41	0 5
06/29/2020 5:09 PM	 Looking for ways to keep your kids busy and			35	0 3
06/23/2020 1:00 PM	 This is a must see for all cabin and lakeshore			78	5 8
06/22/2020 10:45 AM	 The power of one month of behavior change... Did any			59	4 6
06/12/2020 3:28 PM	 Making space to confront systemic racism - Clean			37	5 2
06/04/2020 10:30 AM	 Nice work, RWMWD. We are also battling carp.			49	3 3
06/04/2020 10:29 AM	 Pollinators by the Yard: Assess and Design Webinar			34	1 0
06/01/2020 6:19 AM	 Please consider			54	2 0
05/27/2020 4:56 PM	 We're getting excited about the installation of a peat bog			173	17 29
05/26/2020 9:53 AM	 The secret to leisurely landscaping...			1.8K 	68 16
05/19/2020 4:38 PM	 Sneak preview of our latest column for the Sun Sailor			52	2 4
05/16/2020 11:48 PM	 The Algae Bloom On Minneapolis' Cedar Lake Is			73	10 3
05/11/2020 5:36 PM	 Need a rain barrel or compost bin? Check out the			67	5 3
05/11/2020 5:31 PM	 Get your wildflowers to plant for pollinators and clean			60	5 3
05/11/2020 5:26 PM	 Raingardens are gardens that can handle being			182	18 17

Plant for  
pollinators &  
clean water








































Published	Post	Type	Targeting	Reach	Engagement
04/28/2020 10:57 AM	 Signs of spring...			42	0 3
04/22/2020 8:36 AM	 HAPPY EARTH DAY! Have you ever considered your			70	2 9
04/16/2020 12:59 PM	 Sweeping our streets is crucial for keeping water			58	2 3
04/16/2020 12:58 PM	 Stormwater and snow runoff carries pollutants to our			57	4 3
04/16/2020 11:41 AM	 This is bad news for our lakes and fish—mercury is			86	4 3
04/13/2020 11:43 AM	 Well, maybe we jumped the gun about spring arriving on			46	0 2
04/08/2020 12:45 PM	 It's always inspiring to see what a small group of			50	3 5
04/03/2020 11:44 AM	 This just might make you smile!			28	0 2
04/01/2020 11:40 AM	If you're itching for something meaningful to do, adopt a drain!			32	0 2
03/27/2020 7:21 PM	 Good tip to save money on your food budget and/or			37	2 3
03/24/2020 11:58 AM	 ATTN. GOLDEN VALLEY RESIDENTS! April 8th			30	1 1
03/19/2020 10:35 AM	 We support this legislation. We believe in taking the fear			32	0 4

Salt

Published	Post	Type	Targeting	Reach		Engagement
03/18/2020 10:12 AM	 Bassett Creek Watershed Management Commission			19		1 0
03/18/2020 10:12 AM	 Bassett Creek Watershed Management Commission			18		0 0
03/18/2020 10:12 AM	 Bassett Creek Watershed Management Commission			25		0 0
03/12/2020 10:20 AM	 Thousands of homeowners apply for Minnesota funding			46		3 5
03/08/2020 4:18 AM	 URGENT! Sweep up that sidewalk and parking lot salt			17.5K		3.9K 200
02/20/2020 7:43 AM	 Public Open House on Bassett Creek Lagoon			138		20 8
02/12/2020 4:40 PM	 Water Quality Improvements Planned for			50		1 2
02/08/2020 4:00 PM	 Yay!			71		6 4
02/08/2020 8:19 AM	 We can no longer turn a blind eye. The effects of			115		45 8
02/05/2020 10:11 AM	Hold the salt, indeed...			46		0 1
02/05/2020 8:01 AM	 SMART SALTING Level 1 Minnesota Pollution Control			48		3 2
02/04/2020 11:52 AM	 The BCWMC and the City of Plymouth will host a			41		2 0
02/03/2020 11:28 AM	 So, you have a fish or some aquatic plants you wish you			229		5 7
01/28/2020 7:14 PM	 If Mayo Clinic can reduce their salt use AND increase			62		1 4

Salt

Published	Post	Type	Targeting	Reach	Engagement
01/22/2020 4:38 PM	 State of the City Address			72	0 1
01/20/2020 1:20 PM	 Um, yes.			80	3 6
01/18/2020 9:07 PM	 We need your help passing out SALT SMART info.			3.9K	89 140
01/16/2020 9:55 AM	 Check this out!			40	8 7
01/15/2020 8:57 AM	 For our Golden Valley residents...			77	1 1
01/14/2020 10:21 AM	 Nice example of no extra salt!			48	2 0
01/10/2020 11:29 PM	 Nice example of no extra salt! When the sidewalk is			83	1 7
01/10/2020 7:11 PM	 Climatologist Mark W Seeley's message to the			56	0 4
01/07/2020 9:50 AM	 Salting used to be an act of war. Are we now at war with			54	3 4
01/03/2020 5:23 PM	 I love this line "... this project is about forgiveness,			56	1 5
01/03/2020 9:28 AM	 I love this line "... this project is about forgiveness,			53	7 1
01/02/2020 10:01 AM	 Just to let our residents know, we at BCWMC are			119	4 8
01/01/2020 11:41 AM	 Happy New Year! What a great opportunity to our			30	1 0