

Bassett Creek Watershed Management Commission 2013 Annual Report



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



May 2014

Bassett Creek Watershed Management Commission 2013 Annual Report

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Cover photo: Main Stem Stream Restoration Project, Golden Valley, Minnesota
(Photo credit: Laura Jester)

Bassett Creek Watershed Management Commission (BCWMC)



Executive Summary: 2013 Annual Report

BCWMC's 2013 Activities & Achievements

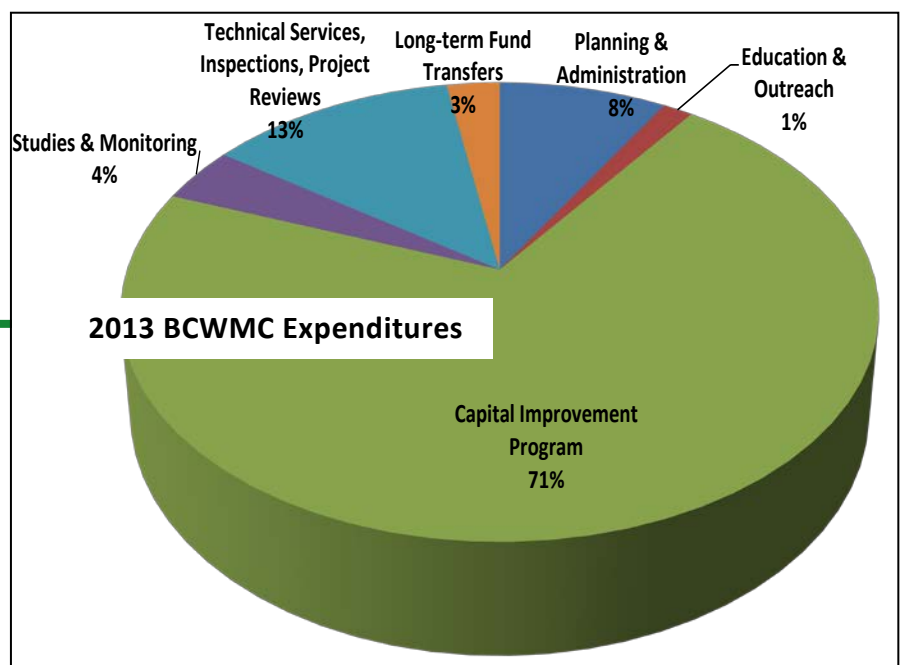
The Executive Summary highlights the Bassett Creek Watershed Management Commission's work and accomplishments during its fiscal year 2013 (February 1, 2013 - January 31, 2014) in the following areas: capital improvements program, water quality activities, education activities, and the Next Generation Watershed Management Plan, which is being developed for approval and adoption in 2015. The BCWMC's activities and projects are guided by its *Watershed Management Plan (Plan)*. The most recent version of its *Plan* was approved by BWSR and adopted by the BCWMC in 2004.

Capital Improvements Program (CIP)

The BCWMC continued to implement its capital improvements program. The 2013 achievements included:

- Completion of two streambank restoration projects: 1) Bassett Creek Main Stem streambank restoration project in Golden Valley, from Wisconsin Ave to Rhode Island Ave and from Duluth St to the Golden Valley – Crystal boundary; total project cost of \$580,200; and 2) North Branch of Bassett Creek streambank restoration project in the City of Crystal, from 32nd Avenue North to Douglas Dr North; total project cost of \$713,240. The projects will control erosion, reduce the contribution of sediment and phosphorus carried by the creeks to downstream waters, and provide riparian habitat.
- Completion of two lake outlet projects: 1) Wirth Lake Outlet Modification Project, in Golden Valley—the total project cost of 201,482; and 2) Sweeney Lake Outlet Replacement Project, in Golden Valley—the total project cost is \$179,742. The Wirth Lake outlet project received a BWSR Clean Water Fund Grant from the Minnesota Board of Water and Soil Resources.
- Continuing work on other projects: 1) A streambank restoration project on the Main Stem of Bassett Creek – Golden Valley Road to Irving Avenue North –in Golden Valley and Minneapolis—the total estimated project cost is \$856,000; the BCWMC received a BWSR CWF grant for this project; and 2) various water quality improvement features in the Four Seasons Area, Plymouth.
- Completed a feasibility study for the Schaper Pond Diversion Project in Golden Valley.
- BWSR approval and BCWMC adoption of a major plan amendment to add three projects to the BCWMC's 10-year CIP: Schaper Pond Diversion Project, Briarwood/Dawnview Water Quality Improvement Project, Twin Lake in-lake Alum Treatment.

In FY 2013, the BCWMC spent a total of \$1.3M on its capital improvement program (see projects above) and approximately \$0.55M on its other activities (see chart). For an itemization or more information on the BCWMC's 2013 expenditures, see the Financial Information Appendix of the annual report.



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 on the board.



Water Quality Activities

In 2013, the BCWMC implemented the following water quality activities:

- Participated in Metropolitan Council Environmental Services' Citizen-Assisted Monitoring Program (CAMP) for seven lakes;
- Monitored Northwood Lake and North and South Rice Ponds for water quality, plankton, and aquatic plants.
- Conducted fish survey of Twin and Sweeney Lakes to better inform a possible in-lake alum treatment in Twin Lake.
- Performed continuous stream monitoring on Bassett Creek, in cooperation with the Metropolitan Council Environmental Services; and,
- Provided funding for the Hennepin County's River Watch program which educates and uses high school students to collect benthic invertebrates, indicators of stream health, from various site along Bassett Creek.

Education Activities

In 2013, the BCWMC implemented the following education-related activities:

- Collaborated with the West Metro Water Alliance, a watershed education alliance with three neighboring WMOs, Hennepin County, the Freshwater Society, the Three Rivers Park District, and several metro-area cities to collaborate on education efforts.
- Provided watershed education to the public at the following events - Plymouth Yard/Garden Expo, Plymouth Environmental Quality Fair, and Golden Valley Days.
- Provided native plant seed packets at watershed education events and at displays in member city halls;
- Partnered with Blue Thumb and Metro Blooms, local programs that educate homeowners on ways to reduce runoff from home yardscapes including installing raingardens.
- Participated in Metro WaterShed Partners, including the Minnesota Waters "Let's Keep Them Clean" media campaign.

"Next Generation" Watershed Plan Activities

- Carried out the Watershed Assessment and Visioning Exercise (WAVE) public input process including an online survey, small group meetings in every city, and a Watershed Summit in June.
- Asked public to prioritize issues identified through WAVE.
- Prioritized issues among Commissioners.
- Established goals for the new Plan and discussed certain policies at a large workshop in October.
- Convened monthly Plan Steering Committee meetings where policies were discussed and finalized.
- Tracked progress and budget of the Plan development.

The Next Generation Watershed Management Plan is expected to be complete in 2015.

I. Annual Activity Report

This annual report covers the Bassett Creek Watershed Management Commission's (BCWMC) activities for fiscal year 2013 (February 1, 2013—January 31, 2014). The BCWMC Annual Report was prepared to meet the Annual Reporting Requirements as set forth in Minnesota Rules Chapter 8410.0150, subparts 1, 2, and 3.

A. 2013 Commissioners

Municipality / Term Expiration	Commissioners	Alternates
Crystal February 1, 2015	Guy Mueller (effective Aug 20, 2013) 2703 Brookridge Avenue N. Crystal, MN 55422 763-218-6418 guymueller1@gmail.com Daniel Johnson (until June 2013) 5801 29 th Avenue North Crystal, MN 55422 763-541-9006 danjohnson57@hotmail.com	Vacant Guy Mueller (until Aug 20, 2013) 2703 Brookridge Avenue N. Crystal, MN 55422 763-218-6418 guymueller1@gmail.com
Golden Valley February 1, 2015	Stacy Hoschka, Treasurer 6400 Golden Valley Road Golden Valley, MN 55427 763-529-4723 Harwell.hoschka@gmail.com	David Hanson 1030 Angelo Drive Golden Valley, MN 55422 763-588-1478 davewhanson@gmail.com
Medicine Lake February 1, 2015	Clint Carlson (effective August 2013) 202 Peninsula Road Medicine Lake, MN 55441 763-242-6645 cacarlson@comcast.net Ted Hoshal, Secretary (until August 2013) 6960 Madison Avenue West, Suite 2 Minneapolis, MN 55427-3627 763-541-1140 dthoshal@luma-gard.com	John O'Toole 181 Peninsula Road Medicine Lake, MN 55441-4113 mhgo@comcast.net
Minneapolis February 1, 2016	Michael Welch 212 Thomas Avenue S. Minneapolis, MN 55405 612-385-6885 mjewelch@gmail.com	Lisa Goddard 214 Logan Avenue North Minneapolis, MN 55405 763-475-0010 lgoddard@srfconsulting.com
Minnetonka February 1, 2016	Jacob Millner, Secretary (effective Aug 2013) 2300 Nottingham Court Minnetonka, MN 55305 jbmiller@gmail.com	Tony Wagner 1804 Traymore Road Minnetonka, MN 55305 952-512-1817 twagner@eminnetonka.com
New Hope February 1, 2016	John Elder City of New Hope 4401 Xylon Ave. N. New Hope, MN 55428 763-531-5100 jelder@ci.new-hope.mn.us	Pat Crough 9320 46 th Avenue North New Hope, MN 55428 763-533-3802 (office) 612-741-7045 (cell)

Municipality / Term Expiration	Commissioners	Alternates
Plymouth February 1, 2017	Ginny Black, Chair Plymouth City Hall 3400 Plymouth Blvd Plymouth 55447 763-509-5004 gblack@plymouthmn.gov	David Tobelmann 415 Sycamore Lane Plymouth, MN 55441 651-356-9226 dtobelmann@gmail.com
Robbinsdale February 1, 2017	Wayne Sicora 3706 Abbott Ave. North Robbinsdale 55422 763-532-8165 Wayne.sicora@gmail.com	Vacant
St. Louis Park February 1, 2017	Jim de Lambert, Vice Chair 9257 West 22 nd Lane St. Louis Park, MN 55426 763-489-3150 jimd@liesch.com	Justin Riss 3732 Penn Ave S. St. Louis Park 55426 justinriss@yahoo.com

B. BCWMC Staff and Consultants

Administrator

Laura Jester
Keystone Waters LLC
16145 Hillcrest Lane
Eden Prairie, MN 55346
952-270-1990
laura.jester@keystonewaters.com

Engineer

Karen Chandler, P.E.
Jim Herbert, P.E.
Len Kremer, P.E.
Barr Engineering Co.
4700 West 77th Street
Minneapolis, MN 55435-4803
952-832-2600
kchandler@barr.com
jherbert@barr.com
lkremer@barr.com

Attorney

Charlie LeFevere
Kennedy & Graven
470 U.S. Bank Plaza
200 South Sixth Street
Minneapolis, MN 55402
612-337-9215
clefevere@kennedy-graven.com

Bassett Creek Recording Administrator

Amy Herbert
c/o Barr Engineering Company
4700 West 77th Street
Minneapolis, MN 55435-4803
952-832-2652
bcra@barr.com

Deputy Treasurer

Susan Virnig
City of Golden Valley
7800 Golden Valley Road
Golden Valley, MN 55427
763-593-8010
svirnig@ci.golden-valley.mn.us

C. BCWMC Goals

Description of Overall Goals

The BCWMC's general goals 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 goals are to:

- Manage the water resources of the watershed, with input from the public, so that the beneficial uses of wetlands, lakes, and streams remain available to the community.
- Improve the quality of stormwater runoff reaching the Mississippi River by reducing the nonpoint source pollution (including sediment) carried as stormwater runoff.
- Protect and enhance fish and wildlife habitat and maintain shoreland integrity.
- Reduce flooding along the Bassett Creek trunk system which is defined as:
 - a. The main channel from Medicine Lake to the Mississippi River.
 - b. The North Branch from upstream of County Road 9 to its junctions with the Main Stem near T.H. 100.
 - c. The Sweeney Lake Branch, from its source in Section 5, T29N, R21W to its junction with the Main Stem downstream of Sweeney Lake.
 - d. Plymouth Creek, from the point where it intersects with Highway 55 in Section 17, T228N, R22W to Medicine Lake, including the lake.
 - e. The designated water quantity and water quality storage facilities.
 - f. All other drains designated as trunks by the BCWMC.
- Protect human life, property, and surface water systems that could be damaged by flood events.
- Regulate stormwater runoff discharges and volumes to minimize flood problems, flood damages, and the future costs of stormwater management systems.
- Provide leadership and assist member cities with coordination of intercommunity stormwater runoff planning and design.
- Prevent erosion and sedimentation to the greatest extent possible to protect the BCWMC's water resources from increased sediment loading and associated water quality problems.

- Implement soil protection and sedimentation controls whenever necessary to maintain health, safety, and welfare.
- Implement stream restoration measures whenever necessary to maintain health, safety, and welfare.
- Maintain or enhance the natural beauty and wildlife habitat value of Bassett Creek.
- Achieve no net loss of wetlands in the BCWMC, in conformance with the Minnesota Wetland Conservation Act (WCA) and associated rules.
- Protect the quantity and quality of groundwater resources.
- Manage public ditches in a manner that recognizes their current use as urban drainage systems.
- Raise awareness of the watershed's existence and the role that the BCWMC plays in protecting water quality and preserving the watershed's health and aesthetics.
- Enable the target audiences to have confidence in the BCWMC's expertise and participate in a meaningful way in the planning process and ongoing projects conducted by the BCWMC.
- Raise awareness of the impact that individuals, businesses, and organizations have upon water quality and motivate these audiences to change personal/corporate behavior that has a negative impact on water quality and the watershed.

D. 2013 Work Activities Completed

In addition to the activities described in the Executive Summary, the BCWMC conducted the following activities in 2013. Work associated with review of development proposals is listed in Section E. Work related to water quality monitoring is addressed in Section F.

- **Capital Improvements Program (CIP)**—The BCWMC continued to implement its capital improvements program. In 2013, these achievements included:
 1. Progress on CIP projects. The following CIP projects were completed or underway in 2013:
- Bassett Creek Main Stem streambank restoration project in Golden Valley, from Wisconsin Avenue to Rhode Island Avenue and from Duluth Street to the Golden Valley – Crystal boundary. This project was completed in 2013.
- North Branch of Bassett Creek streambank restoration project in the City of Crystal, from 32nd Avenue North to Douglas Drive North. This project was completed in 2013.
- Wirth Lake Outlet Modification Project in Golden Valley. This TMDL implementation project significantly improved Wirth Lake water quality by preventing backflow of water from Bassett Creek into Wirth Lake. Construction on the new outlet was substantially completed in November 2012 with final completion in 2013. The new outlet consists of a concrete structure containing two rubber check valves. Wirth Lake is now proposed for removal from the State's Impaired Waters List in 2014.
- Sweeney Lake Outlet Replacement Project in Golden Valley. The new outlet was substantially complete in 2012 with final completion in 2013. This project was funded using BCWMC flood control project long term maintenance funds.
- Main Stem channel restoration, Golden Valley Rd. to Irving Avenue N. (Cedar Lake Rd.), in Minneapolis and Golden Valley. This project is currently underway. An informational open house for residents was held in March 2013. 50% project plans were approved in September 2013.
- Four Seasons Mall Area Water Quality Project in Plymouth. 50% project plans were approved in August 2013. 90% project plans were approved but with additional information requested in September 2013. Due to significant concerns from local residents, the project is delayed while alternatives are considered.

- Lakeview Park Pond Project in Golden Valley. The Technical Advisory Committee and Commission considered technical issues with the project that could potentially impact surrounding properties. This project is delayed while alternatives are considered.
- A major plan amendment was submitted to, and approved by, BWSR and adopted by the BCWMC in 2013 to revise the BCWMC's 10-year CIP (Table 12-2):
 - Adding a project for 2014 (SL-3) to modify Schaper Pond, located immediately upstream of Sweeney Lake, to improve the pond's ability to remove phosphorus, and help meet the Sweeney Lake TMDL phosphorus removal goals.
 - Adding a project for 2014 (BC-7) to construct a water quality treatment pond (in the Briarwood-Dawnview area) in the Main Stem watershed to reduce phosphorus loading to Bassett Creek.
 - Adding a project for 2014 (TW-2) to provide in-lake alum treatment of Twin Lake, to address internal phosphorus loading issues in the lake and prevent further water quality degradation.

At their September 19, 2013 meeting, the BCWMC passed resolution 13-04 approving the major plan amendment.

- At their September 19, 2013 meeting, the BCWMC passed resolution 13-05 ordering construction of the BCWMC's 2014 CIP projects: Twin Lake In-Lake Alum Treatment Project, Briarwood Dawnview Water Quality Improvement Project, and Schaper Pond Diversion Project.
- Twin Lake in Golden Valley. Feasibility study was approved in February 2013 with recommendation of in-lake alum treatment and further investigation of the fishery ordered as part of the project design. Fish surveys were performed by the MDNR and Blue Water Science in September 2013. Further analysis of fish and water quality data are ongoing. Alum treatment for Twin Lake is potentially slated for fall 2014.
- Briarwood Dawnview Water Quality Improvement Project in Golden Valley. Final feasibility study was approved in April 2013. Project design is underway.
- Schaper Pond Diversion Project in Golden Valley. Meetings held with MPCA and MDNR regarding the permitting of this project. Additional water quality and wetland impact analyses completed. Continuing to negotiate implementation of project with State regulators while also considering other alternatives.
- Main Stem Bassett Creek Channel Restoration 10th Ave. to Duluth St. Golden Valley. Agreement with City of Golden Valley to prepare feasibility report for this project approved in May 2013 with a revision approved in November 2013.

2. BWSR Clean Water Fund Grant Administration:

- a. Applying for a Clean Water Fund Grant for the BCWMC's Briarwood/Dawnview Water Quality Improvement CIP project in Golden Valley.
- b. Submitting project updates, reports, etc. for the BWSR Clean Water Fund Grants for the following BCWMC CIP projects:
 - i. Wirth Lake Outlet Modification, in Golden Valley (2011 Grant)
 - ii. Main Stem channel restoration, Golden Valley Rd. to Irving Avenue N. (Cedar Lake Rd.), in Minneapolis and Golden Valley (2012 Grant)
- c. Closing out the 2011 Clean Water Fund Grant for the following BCWMC CIP project:
 - i. Wirth Lake Outlet Modification, in Golden Valley

The BCWMC's 10-year capital improvements plan and potential future water quality capital improvements plan are included in the BCWMC *Watershed Management Plan* (September 2004). The table listing the BCWMC's capital improvement projects, updated to include all of the plan amendments, is appended.

- **Watershed Management Plan**—In 2013 the BCWMC implemented its Capital Improvements Program and its annual water quality and flood control programs as described in the BCWMC's *Watershed Management Plan*. Additionally, the BCWMC undertook a major plan amendment to revise its 10-year CIP (Table 12-2):

- Adding a project for 2014 (SL-3) to modify Schaper Pond, located immediately upstream of Sweeney Lake, to improve the pond's ability to remove phosphorus, and help meet the Sweeney Lake TMDL phosphorus removal goals.
- Adding a project for 2014 (BC-7) to construct a water quality treatment pond in the Briarwood-Dawnview area of Golden Valley in the Main Stem watershed to reduce phosphorus loading to Bassett Creek.
- Adding a project for 2014 (TW-2) to provide in-lake alum treatment of Twin Lake in Golden Valley, to address internal phosphorus loading issues in the lake and prevent further water quality degradation.

The BCWMC held a public meeting on the proposed amendment at its May 16th meeting and continued the public meeting to its June 20th. At their September 19, 2013 meeting, the BCWMC passed resolution 13-04 approving the major plan amendment.

- **Next Generation Watershed Management Plan**—In 2013, the BCWMC continued to develop its next generation Watershed Management Plan through the following activities:
 - Monthly meetings of the Next Generation Plan Steering Committee to develop goals and policies
 - January workshop to review gaps analysis and determine level of discussion expected on certain topics
 - Refinement of plan process timeline and budget
 - Execution of Watershed Assessment and Visioning Exercise (WAVE) throughout watershed including
 - Online survey of residents to determine important issues and activities where the Commission should focus can focus its work over the next decade. The survey was available online February – June 2013 and was completed by 174 people.
 - Small group meetings with council members, commission members, and/or staff in every member city to gather ideas and to understand issues in each city
 - June Watershed Summit, professionally facilitated, to prioritize issues identified through the survey
 - October workshop – finalization of goals and discussion of some policies
 - Development of policies regarding water quality, flooding and rate control, groundwater, and erosion and sediment control. Priority waterbodies and water quality standards were also developed.
- **Watershed-wide XP-SWMM Model**—In 2013, the BCWMC completed updating the Bassett Creek watershed hydrologic and hydraulic (H & H) models to XP-SWMM. The updated model will allow the Commission to evaluate the impact of structure modifications and other projects on the creek and other major waterbodies in the watershed. A more detailed (Phase II) of the XP-SWMM model was also discussed as a possible project by the Commission for 2014.
- **Watershed-wide P8 Water Quality Model**—In 2013, the BCWMC completed updating the Bassett Creek watershed water quality modeling. The updated P-8 water quality model will provide a key tool for the Commission to use in tracking the progress of the BCWMC and the MS4s

towards TMDL implementation for impaired water bodies, not only within BCWMC, but also downstream of Bassett Creek. When projects are proposed and/or completed, the updated P8 model can be used to estimate the loading reduction that will be achieved by the projects. The updated P8 model can also be used to evaluate the effect of proposed projects, such as projects that come under Commission review and Commission CIP projects. The member cities can also use the model to evaluate individual BMPs in their cities.

- **Capital Improvement Project (CIP) Reserve Account** - In 2005 the BCWMC established a \$250,000 reserve fund to address shortages in available funding in any given year for construction of water quality CIP projects. The BCWMC agreed to revisit the reserve account policy each year. In 2013 the BCWMC made no changes to the policy.
- **Annual Report**—The BCWMC prepared the 2012 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>.
- **Citizen Involvement**— 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. The BCWMC posts its meeting calendar, upcoming meeting agendas, meeting materials, and previous meeting minutes on its website (www.bassettcreekwmo.org) to provide citizens an opportunity to attend BCWMC and BCWMC Committee meetings and to monitor BCWMC actions. The BCWMC notified the public and the member cities of and held public meetings on May 16 which was continued to June 20, 2013 to receive comments on the proposed major plan amendment to the BCWMC's *Watershed Management Plan*. Also, the BCWMC notified the public and the member cities and held a public hearing on September 19, 2013, regarding the proposed CIP projects including Schaper Pond diversion project, the Briarwood/Dawnview water quality improvement project and the Twin Lake in-lake alum treatment project, all in Golden Valley. Additionally, as part of its next generation Watershed Management Plan development, the BCWMC posted an online survey for residents, held multiple small group meetings in each member city, and held a public Watershed Summit to gather further input from residents and to prioritize issues.
- **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 twice per month between April and September, and once per month taken outside this period.

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 and Minneapolis Park and Recreation Board on the watershed outlet monitoring program (WOMP) designed to continuously monitor flow and water quality.

- **Watershed Inspection** —The BCWMC performed monthly erosion control inspections of construction sites within the watershed. Following each inspection, a letter was prepared and sent to the applicable municipality listing construction projects and the improvement needed for effective erosion control. The inspections were performed April through August. The BCWMC cancelled the September and October inspections as a cost savings measure.
- **Flood Control Project Inspection** - The BCWMC cancelled its 2013 flood control project inspection due to budget issues. During 2013, the BCWMC relied on the cities to perform routine inspections and maintenance (based on respective 2012 BCWMC inspection reports). A visual inspection of the Medicine Lake Dam was performed on October 11, 2013.
- **Development Proposals**—The BCWMC reviewed 41 development proposals in the watershed for conformance to water quality and flooding policies. As a comparison, the BCWMC reviewed 37, 32 and 28 development proposals respectively in 2012, 2011 and 2010, See Section E: Project Reviews.
- **Review of Adjacent WMO Plans/Plan Amendments**—In 2013, the BCWMC did not receive any requests to review plans or plan amendments for any adjacent WMOs.
- **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 as well as at the BCWMC’s official notice posting site of Golden Valley City Hall. The BCWMC directed its Technical Advisory Committee (TAC) to meet seven times during the 2013 fiscal year (February 7, April 4, June 6, July 29, October 7, November 7, and January 7) to review and work on the following items:
 1. Creation of the BCWMC’s Capital Improvement Program for 2015-2019, including projects to be added to it and the Commission’s annual timeline for updating it;
 2. Various improvements to the CIP process including development of CIP project fact sheets, development of criteria/ required components of feasibility studies, development of criteria list for CIP projects to be included in next generation Watershed Management Plan
 3. Review of letters of interest proposals for engineering and technical services related to bi-annual solicitation of proposal for service
 4. Development of Roles and Responsibilities document

5. Issues related to the Lakeview Park Pond CIP project
6. Finalization of the XP-SWMM and P8 models including recommendations on their use, ownership, maintenance, and possibility of a second phase (more detail) for XP-SWMM model
7. Refinement of “Trunk System” definition (components)
8. Review fees for development and projects and how the cities incorporate BCWMC reviews into their own review processes
9. Maintenance of Flood Control Project components
10. Development of 2016 – 2020 CIP Project list

- **Resolutions**—The BCWMC passed 7 resolutions in 2013. Copies of the resolutions are included in Appendix B.
- **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) Draft 2014 “*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>.

Water Body (Lake/River ID #)	Pollutant or Stressor (Year of Listing)
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) ²
North Branch Bassett Creek from Northwood Lake to Bassett Creek (07010206-526)	E. coli (2014) ²
Sweeney Lake (27-0035-01)	Nutrient/Eutrophication Biological indicators (2004) Chloride (2014) ²
Wirth Lake (27-0037-00)	Nutrient/Eutrophication Biological indicators (2002) ³ Mercury in fish tissue (1998) ¹
Medicine Lake (27-0104-00)	Nutrient/Eutrophication Biological indicators (2004) Mercury in fish tissue (2004) ¹
Parkers Lake (27-0107-00)	Mercury in fish tissue (1998) Chloride (2014) ²
Spring Lake (27-0654-00)	Chloride (2014) ²
Northwood Lake (27-0627-00)	Nutrient/Eutrophication Biological indicators (2004)

¹ The MPCA completed a statewide mercury TMDL that was approved 2007

² MPCA proposed several new impairment listings for chloride in September, 2013. Following responses to comments, these listings remained on the 2014 Proposed Impaired Waters List (updated 4/15/2014).

³ See discussion below for likely delisting of Wirth Lake for this impairment in 2014

- **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, which is currently underway. 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 draft TMDL report incorporated the draft 2014 impaired waters listings for E. coli in Plymouth Creek and North Branch, Bassett Creek, and is undergoing review and comment during 2014. The Upper Mississippi River E. coli TMDL project website maintained by the MPCA is at <http://www.pca.state.mn.us/water/tmdl/project-uppermiss-bacteria.html>.
- **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 is estimated to reduce phosphorus loading to the lake by an average of 55 pounds per year. The project was substantially completed in November 2012. 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.

- **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.
- **Watershed-wide TMDL**—In 2011, the MPCA indicated that funding for a watershed-wide TMDL for the Bassett Creek watershed would be available in 2020 or later. The watershed-wide TMDL would cover the current Bassett Creek and Northwood Lake impairments, along with any future listings between now and 2020.
- **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, four BCWMC water bodies—Northeast drainage to Medicine Lake, the Rockford Road drainage to Medicine Lake, Wirth Lake and Medicine Lake, were placed in a category of high risk waters, which can be viewed as a watch list for future changes. During 2014, it is anticipated that MPCA will develop and release a draft TCMA Chloride Management Plan that is intended to balance the public safety needs for deicing with attainment of the chronic and acute water quality standards for chloride. This management plan will include 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 is being developed during 2014 to support TMDL implementation efforts.
- **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 one year after that, in 2014.

- Estimating and reporting progress towards achieving the assigned wasteload allocations. The BCWMC's watershed P8 model was completed in 2013 and will be an essential tool for estimating reductions in phosphorus loading.
- Monitoring lake water quality on an annual basis. See Section F "2013 Water Quality Monitoring Data and Studies" regarding monitoring of these lakes in 2013.

E. 2013 BCWMC Project Reviews

The following table, *Proposed projects reviewed by BCWMC in fiscal year 2013* includes development proposals and other plans that were submitted to the BCWMC for review. The list does not include review of capital improvement projects.

Proposed projects reviewed by BCWMC in fiscal year 2013¹

Appl. Form	Project Name	Date Submitted	City	Type
2012-22	Gateway Assisted Living	9/17/2012	SLP	Multi-residential
2012-25	Boone Ave Convenience Center & Retail	10/22/2012	GV	Commercial
2012-32	Golden Valley Pavement Mgmt Project (PMP)	1/17/2013	GV	Public Agency
2012-33	1-GV-461 Relief Force Main	1/17/2013	GV	Public Agency
2013-01	The Tiburon	2/1/2013	GV	Multi-residential
2013-02	McDonald's at Crossroads Commons	2/18/2013	PLY	Commercial
2013-03	Motorwerks MINI	2/22/2013	GV	Commercial
2013-04	4900 Triton Drive (Eldridge 3rd Addition)	2/27/2013	GV	Single Family Residential
2013-05	Trail Bridge Over CSAH 61	2/28/2013	PLY	Public Agency
2013-06	Sagamore Street Reconstruction	3/12/2013	PLY	Public Agency
2013-07	Hennepin Cty 911 Facility	3/13/2013	PLY	Public Agency
2013-08	Kohl's at Rockford Plaza	3/19/2013	PLY	Commercial
2013-09	MnDOT TH 169 Mill and Overlay	3/22/2013	GV, PLY, NH	MnDOT Highway
2013-10	Sunshine Factory	3/29/2013	PLY	Commercial
2013-11	HOM Furniture Dock Expansion	4/2/2013	PLY	Commercial
2013-12	Three Nine Four Apt. & Sr. Care	4/11/2013	GV	Multi-residential
2013-13	Plymouth Yard Waste Site Improvement	4/18/2013	PLY	Public Agency
2013-14	Arcata Apts (prev. known as Colonnade Apts)	4/26/2013	GV	Multi-residential
2013-15	Ridgedale Mall Macy's Expansion	4/26/2013	MTKA	Commercial
2013-16	West Health TCU	5/1/2013	PLY	Commercial
2013-17	33rd Avenue Street Reconstruction	5/6/2013	ROB	Public Agency
2013-18	Crystal Lake Heights Reconstruction	5/20/2013	ROB	Public Agency
2013-19	The Tile Shop Corp. Parking Lot Expansion	6/10/2013	PLY	Commercial
2013-20	MnDOT Plymouth Truck Station Site Improvement	7/15/2013	PLY	Public Agency
2013-21	Ski Trail Grading at Theo Wirth GC	7/17/2013	GV	Public Agency
2013-22	Golden Valley Lutheran Church Addition	7/25/2013	GV	Commercial
2013-23	2600 Niagara Lane	7/26/2013	PLY	Commercial
2013-24	Culver's Restaurant	7/26/2013	GV	Commercial
2013-25	W. Medicine Lk Dr Retaining Wall	7/26/2013	PLY	Public Agency
2013-26	TH 394 Entrance Ramp at Ridgedale Dr	7/26/2013	MTKA	Public Agency
2013-27	1400 Spring Valley Road	7/26/2013	GV	Single Family Residential
2013-28	General Mills JFBTC W5 Expansion (James Ford Bell Tech Center Wing 5)	7/29/2013	GV	Commercial
2013-29	Plymouth City Center Medical Bldg	9/11/2013	PLY	Commercial
2013-30	6005 Golden Valley Rd-Parking Lot Repair	9/20/2013	GV	Commercial
2013-31	Productivity Inc. Parking Lot Improvements	10/3/2013	PLY	Commercial
2013-32	Room & Board Parking Lot Add'n	10/11/2012	GV	Commercial
2013-33	LCA 3200 Harbor Lane N	10/15/2013	PLY	Commercial
2013-34	Push Interactive Redevelopment	10/25/2013	MPLS	Commercial
2013-35	The Xenia	10/31/2013	GV	Multi-residential
2013-36	St. Mary's Park Drainage Imp.	11/5/2013	PLY	Public Agency
Preliminary	SW LRT (Information Request)	1/28/2013	MPLS	Public Agency:

- ¹Projects in **bold** were presented for BCWMC review and comment at a BCWMC meeting.

F. 2013 Water Quality Monitoring Data and Studies

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

- **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 2013, 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 and Lost Lake in Plymouth, and Westwood Lake in St. Louis Park. For results of the 2012 CAMP, see *2012 Study of the Water Quality Of 168 Metropolitan Area Lakes* [the report on the 2013 CAMP is not yet available]. The report is also available on the Metropolitan Council website at <http://www.metrocouncil.org/getattachment/2355afdf-b4a9-412a-a206-234378d08782/.aspx>
- **Detailed stream monitoring at 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. <http://www.metrocouncil.org/environment/RiversLakes/index.htm>.
- **Northwood Lake, South Rice Pond, North Rice Pond** – In 2013, the BCWMC monitored these waterbodies for nutrients, Secchi disc, chlorophyll-a, zooplankton, phytoplankton, and macrophytes. In Northwood Lake, total phosphorus, chlorophyll a, and Secchi disc transparency summer averages failed to meet BCWMC water quality goals and Minnesota water quality standards for shallow lakes in 2013. In North and South Rice Ponds, average summer total phosphorus concentrations and Secchi disc transparency values in North Rice Pond and South Rice Pond did not meet BCWMC water quality goals. Average summer chlorophyll a concentrations did meet the BCWMC water quality goal. The complete report can be found on the BCWMC website: http://www.bassettcreekwmo.org/WaterData-Projects/2013/2013_WQ_Northwood_North+SouthRicePonds.pdf
- **Twin Lake and Sweeney Lake Fish Surveys** – The BCWMC requested surveys of fish by the Department of Natural Resources (DNR) in Twin and Sweeney Lakes in order to better understand if the fish community could negatively impact an in-lake alum treatment slated for Twin Lake in 2014. The DNR performed an electrofishing survey of only Sweeney Lake.

BCWMC contracted with Blue Water Science to perform trapnet surveys in both Twin and Sweeney Lakes. The Blue Water Science report is available on the BCWMC website:

<http://www.bassettcreekwmo.org/WaterData-Projects/2013/2013FishSurveyReportbyBlueWaterScience.pdf>

- **Wirth Lake and Spring Lake Monitoring Data**—In 2013, the Minneapolis Park & Recreation Board (MPRB) monitored the water quality of Wirth Lake and Spring Lake and continued its qualitative study on the artificial islands in Spring Lake. The MPRB's *2013 Water Resources Report* is not yet available. It will be available at the Minneapolis Park & Recreation Board website at: <http://www.minneapolisparks.org/default.asp?PageID=791>.
- **Medicine Lake**—The Three Rivers Park District (TRPD) monitored Medicine Lake in 2013. The 2013 results are available from TRPD.
- **Parkers Lake**—TRPD monitored Parkers Lake in 2013, on behalf of the City of Plymouth. The 2013 results will be included in a report by TRPD; when complete, the report will be available at the City of Plymouth's website at: <http://www.plymouthmn.gov/index.aspx?page=258>.
- **Stormwater flow monitoring and in-stream water quality monitoring** in the Parkers Lake (two sites), Medicine Lake (Plymouth Creek and two other sites), and Northwood Lake (one site) watersheds was performed on behalf of the City of Plymouth by the Three Rivers Park District (TRPD). The 2013 results will be included in a report by TRPD; when complete, the report will be available at the City of Plymouth's website at: <http://www.plymouthmn.gov/index.aspx?page=258>.
- **River Watch Program**—The BCWMC continues to support the Hennepin County Environmental Services' River Watch Program. The program began in 1995 and uses 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:
 - The Family Biotic Index, which measures the overall community of invertebrates and their tolerance to pollution levels. The scale ranges from 0 to 10 with the lower values indicating high sensitivity and good water quality if present.

- EPT, which stands for Ephemeroptera, Plecoptera, and Trichoptera, or mayflies, stoneflies, and caddisflies. These three families include the most sensitive individuals and are looked at for indications of presence or absence. Higher scores indicate better water quality.
- The number of families, which measures the overall abundance of families or total diversity of family units. Again, with this index, the higher the number the better.

Students have been monitoring Bassett Creek since 1999. There were three River Watch sites in the Bassett Creek watershed in 2013. The report *Hennepin County River Watch 2013* is available at: <http://www.hennepin.us/business/work-with-henn-co/environmental-education-programs>.

G. Local Plan Adoption

The following table shows the status of the surface water management plan preparation for each municipality.

Municipality	Local Plan Status	Comments
Crystal	Completed	Local plan was approved by the BCWMC in January 2010. Resolution 10-02.
Golden Valley	Completed	Revised plan was approved by the BCWMC in September 2008. Resolution 08-06.
Medicine Lake	Completed	Local plan was approved by the BCWMC in January 2010. Resolution 10-05.
Minneapolis	Completed	Local plan was approved by the BCWMC in September 2006. Resolution 2006-04.
Minnetonka	Completed	Revised local plan was approved by the BCWMC in September 2008. Resolution 08-05.
New Hope	Completed	Revised plan was approved by the BCWMC in October 2008. Resolution 08-08.
Plymouth	Completed	Local plan conditionally approved by the BCWMC in February 1999. Resolution 99-3. Revised plan was approved by the BCWMC in November 2008. Resolution 08-09.
Robbinsdale	Completed	Local plan was approved by the BCWMC in October 1996; reconfirmed in April 1997. Resolution 97-5. Local plan was reviewed as part of the city's comprehensive plan review in 2008. Revised plan was submitted to the BCWMC for review in December 2009. Resolution 10-04.
St. Louis Park	Completed	Revised plan was approved by the BCWMC in September 2009. Resolution 09-06.

H. 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 report *Requirements for Improvements and Development Proposals*, prepared by the BCWMC (2008), is posted for use and reference on the BCWMC's website at http://www.bassettcreekwmo.org/require/2008_Requirements/2008RequirementsTOC.htm.
- **Website**—The BCWMC maintained information on its website during 2013. In 2013, there were approximately 954,000 visits, or 2,614 per day. A copy of the website Usage Report from January 1, 2013, through December 31, 2013, is included in the appendices. The BCWMC's contact list, meeting calendar, meeting materials, data, and projects is among some of the information on the website. The address for the Bassett Creek Watershed Management Commission website is <http://www.bassettcreekwmo.org>.
- **BCWMC Meeting Packet**— Each month in 2013 the BCWMC posted electronic meeting packets on its website and e-mailed the link to approximately 40 parties. Additionally each month the BCWMC mailed a hard copy of meeting packet to approximately 16 interested parties. The packets included the BCWMC meeting agenda, meeting minutes, and meeting materials about the issues on the monthly meeting agenda.
- **Publications**—The Commission published its public hearing notices in a variety of Twin Cities metro-area publications including *Finance & Commerce*, *Sun Sailor*, and *Lakeshore Weekly News*.
- **West Metro Water Alliance (WMWA)** – The BCWMC continued its participation in WMWA along with several watershed management and other water-related organizations in the west Metro area. 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. <http://www.shinglecreek.org/pages/WMWA/>
- **Metro WaterShed Partners**—The BCWMC participated as a member of the Metro WaterShed Partners as a general supporter of the program and also as a 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 displays an exhibit at the State Fair to educate the public about watersheds. The Clean Water Minnesota Media Campaign is a stormwater education collaboration that develops and delivers stormwater educational materials to a broad audience through television, radio, and billboard campaigns as well as through its website www.cleanwatermn.org.

- **Additional Educational Activities and Organizations** – In addition to the WMWA and WaterShed Partners, the BCWMC financially sponsored Metro Blooms, Blue Thumb, River Watch, and the Citizen Assisted Monitoring Program.

I. Professional Services Proposal

In accordance with Minnesota Statutes, Section 103B.227, Subdivision 5, the BCWMC solicited letters of interest in January 2013 (Fiscal Year 2012-13) for legal and for engineering and technical consulting services. Letters of interest proposals were considered in early 2013; the BCWMC decided to keep its current slate of consultants.

J. 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 in the Financial Information section of the Bassett Creek Watershed Management Commission's website at <http://www.bassettcreekwmo.org>.

K. Wetland Conservation Act/Wetland Banking Program

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 administering the interim program and the permanent program of the 1991 Wetland Conservation Act. The following table indicates the local governmental unit for each municipality.

Municipality	Permanent Program (Effective 1/1/94)
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 2013, the BCWMC submitted to BWSR its WCA annual report covering all 2012 WCA-related activities.

Wetland Mitigation Policy—The BCWMC's wetland mitigation policy specifies that filling or developing existing lakes and wetlands require an evaluation of the benefits of the wetland for stormwater storage, water quality enhancement, and wildlife habitat, as well as the development of a plan to mitigate the loss of those benefits somewhere in the affected municipality.

Wetland Banking Program—The BCWMC has not adopted a wetland banking program.

II. 2014 Projected Work Plan

Following is a list of tasks to be completed during 2014:

- **Capital Improvements Program (CIP)**—The BCWMC will continue to implement its capital improvements program. In 2014, this work will include:
 1. Capital Improvement Program and Prioritization—The BCWMC will review and update its capital improvement program and its water resource prioritization. The CIP is included in the report appendices.
 2. Progress on CIP projects:
 - Restore Main Stem Channel, Irving Ave (Cedar Lake Rd.), to Golden Valley Road—Minneapolis and Golden Valley—the estimated project cost is \$856,000.
 - Analyze lake water quality data and fish survey data, then finalize plans and implement (as needed) an in-lake alum treatment of Twin Lake, Golden Valley (Project TW-2) – the estimated project cost is \$148,000.
 - Work with State permitting authorities to determine whether or not to construct the Schaper Pond Diversion Project (SL-3) in Golden Valley and/or look for alternate projects in the area to address Sweeney Lake TMDL – the estimated project cost is \$550,000.
 - Construct Briarwood-Dawnview Area Water Quality Treatment pond (Project BC-7) in Golden Valley including an iron enhanced sand filter system to remove additional phosphorus – the estimated project cost is \$200,000.
 - Seek alternatives for the Lakeview Park Pond Project (ML-8) in Golden Valley—the original estimated project cost is \$196,000.
 - Analyze alternatives and work with residents on the Four Seasons Area Water Quality Project (NL-2) in Plymouth—the estimated project cost is \$990,000.
 3. Completing feasibility studies for the following BCWMC CIP projects:

- Project 2015CR, Main Stem Bassett Creek Restoration Project – Golden Valley (proposed 2015 project)
 - 4. Completing and gaining approval of a major plan amendment to the BCWMC's *Watershed Management Plan* to add to/revise the following projects to Table 12-2 of the Plan (Water Quality Management and Flood Control 10-Year Capital Improvements Program (CIP)):
- Project CR2015, Main Stem Bassett Creek Restoration 10th Ave. to Duluth St. in Golden Valley—the estimated project cost is \$1,300,000 to \$1,600,000.
 - 5. BWSR Clean Water Fund Grant Administration:
 - Completing and submitting to BWSR a Biennial Budget Request (BBR) detailing the projects for which the BCWMC will likely request state funding in the FY 2016-2017 biennium.
 - Submitting project updates, reports, etc. for the BWSR Clean Water Fund Grants for the following BCWMC CIP projects:
 - Main Stem channel restoration, Irving Ave to Golden Valley Road, in Minneapolis and Golden Valley (2012 grant).
 - **Watershed Management Plan**—In 2014 the BCWMC will implement its Capital Improvements Program and its annual water quality and flood control programs as described in the BCWMC *Watershed Management Plan*. Also, the BCWMC will undertake a major plan amendment to add one projects to its CIP:
 - Adding to the Capital Improvement Program (CIP) a project for 2015 (CR2015) to restore approximately 1.8 miles of the Main Stem of Bassett Creek from 10th Avenue to Duluth Street in the City of Golden Valley
 - **Next Generation Watershed Management Plan**—In 2014, the BCWMC will continue the planning process for its Next Generation Watershed Management Plan. In 2014, the process will include:
 - Establishing goals, policies, and strategies;

- Reviewing standards and triggers for watershed developments and projects;
 - Developing education and outreach plan;
 - Developing implementation program; and
 - Developing watershed plan document
- **Watershed-wide XP-SWMM Model**—The BCWMC will consider a project to further refine and add detail to its new XP-SWMM Model (i.e., implement a Phase II of the project)
 - **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.
 - **Watershed Inspections**—The BCWMC no longer performs watershed construction site inspections, as the member cities are now performing this duty. The BCMWC will inspect sites or send communications to developers at the request of the member cities.
 - **Flood Control Project Inspection**—The BCWMC will perform its annual flood control project inspection program, plus inspect the double box culvert (performed every five years), as set forth in the Bassett Creek Flood Control Project Operations and Maintenance Manual.
 - **Municipal Plan Review**—This item includes BCWMC review of the member cities' local water management plans and plan amendments, and BCWMC review of adjacent WMO plans and plan amendments.

- **Water Quality**—Proposed water quality tasks for 2014 include performance of the following:
 1. ***Water Quality Monitoring:*** The BCWMC will perform detailed water quality monitoring of Sweeney Lake and Twin Lake in Golden Valley. This work is done on a 4-year cycle and consists of collecting six samples throughout the summer and fall. In addition to collection of samples for chemical analysis, phytoplankton and zooplankton samples will be collected and analyzed, and an aquatic plant survey will be performed on two occasions.
 2. ***Citizens Assisted Monitoring Program (CAMP):*** The BCWMC has entered into an agreement with the Metropolitan Council Environmental Services (MCES) to participate in this program. Volunteer citizens will monitor the following lakes in 2014: 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 Lost Lake in Plymouth.
 3. ***Watershed Outlet Monitoring Program (WOMP):*** The program will be managed by the BCWMC. The Metropolitan Council Environmental Services (MCES) will provide up to \$10,000 in financial support between January 1, 2013, and December 31, 2014, to the BCWMC for operating the station and maintaining the rating curve. The BCWMC entered into an agreement with a Wenck & Associates from its consulting pool 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 2014. BCWMC staff will continue to maintain the rating curve.
 4. ***Medicine Lake*** will be monitored by the Three Rivers Park District (TRPD).
 5. ***Parkers Lake*** will be monitored by TRPD, on behalf of the City of Plymouth.
 6. ***Wirth Lake and Spring Lake*** will be monitored by MPRB.
 7. ***River Watch Program:*** The BCWMC will participate in the River Watch program managed by Hennepin County Environmental Services (HCES); one site on Bassett

Creek will be sampled. HCES will provide a final report of the 2013 sampling results to the BCWMC.

8. *Stormwater flow monitoring and in-stream water quality monitoring* in the Parkers Lake, Medicine Lake and Northwood Lake watersheds will be performed by the TRPD, on behalf of the City of Plymouth.
- **Development Reviews**—The BCWMC will review development proposals in the watershed for conformance to water quality and flooding policies.
 - **Citizen Involvement**—The BCWMC will continue to encourage citizen participation at its monthly BCWMC meetings and at its Committee meetings. The meetings are noticed to the public and a meeting calendar is posted on the BCWMC’s website.
 - **Education and Outreach** – The BCWMC will engage and educate residents through information displays at the Plymouth Yard and Garden Expo and Golden Valley Days and will cooperate and provide financial assistance to various educational organizations and programs including the West Metro Water Alliance, River Watch Program, Blue Thumb, Metro Blooms, Children’s Water Festival, and WaterShed Partners. The BCWMC will also educate local leaders and decision makers through the NEMO workshops in cooperation with the University of Minnesota – Extension.
 - **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.
 - **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.
 - **Annual Report**—The BCWMC will prepare an annual report, submit the report to BWSR and member cities, and post it on the BCWMC website.
 - **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 2014, the BCWMC will begin 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 regarding TMDL implementation activities to the MPCA. TMDL progress reports will be due by June 30, 2014.
- 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 2014.

III. Annual Financial Report

The 2013 fiscal year for the Bassett Creek Watershed Management Commission (BCWMC) commenced on February 1, 2013 and ended January 31, 2014.

A. Approved Budget

The approved operating budget for fiscal year 2013 was \$563,045. 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 2013 budget description, member-city assessment table, and operating budget table are appended.

B. Report of Revenues

See the Financial Audit Report in the appendices.

C. Report of Expenditures

See the Financial Audit Report in the appendices.

D. Financial Audit Report

The annual audit report for the year ending January 31, 2014, was performed by Malloy Montague Karnowski Radosevich & Co., P.A. A copy of the annual audit report is included in the appendices and also is available on the Bassett Creek Watershed Management Commission's website at <http://www.bassettcreekwmo.org>.