Bassett Creek Watershed Management Commission DRAFT 2012 Annual Report



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



May 2013

Bassett Creek Watershed Management Commission DRAFT 2012 Annual Report

Table of Contents

| tive Summary | |
|--|---------------------|
| nual Activity Report | 3 |
| | |
| | |
| BCWMC Goals and 2012 Work Activities | |
| | |
| | |
| | |
| Local Plan Adoption | 27 |
| Watershed Communication/Public Education | 28 |
| Professional Services Proposal | 29 |
| Assessment of Changes in Fund Balance | 29 |
| Wetland Conservation Act/Wetland Banking Program | 29 |
| nual Financial Report | 31 |
| Approved Budget | 31 |
| | |
| Report of Expenditures | 31 |
| | |
| 1 | ual Activity Report |

Cover photo: Sweeney Lake Outlet Project, Golden Valley, Minnesota

(Photo credit: Barr Engineering Company)

List of Appendices

| Appendix A | Financial Information |
|------------|------------------------------|
| Appendix B | Resolutions |
| Appendix C | Capital Improvements Program |
| Appendix D | Website Usage Report |

Bassett CreekWatershed Management Commission (BCWMC)



Executive Summary: 2012 Annual Report

BCWMC's 2012 Activities & Achievements

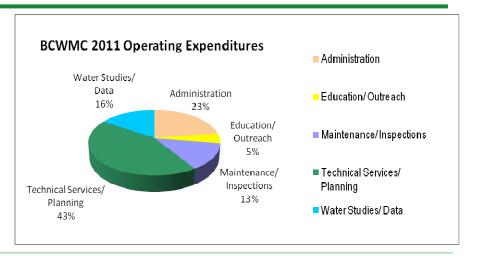
The Executive Summary highlights the Bassett Creek Watershed Management Commission's work and accomplishments during its fiscal year 2012 (February 1, 2012 - January 31, 2013) in the following areas: capital improvements program, water quality activities, education activities, and the Next Generation Watershed Management Plan, which is being developed for approval and adoption in 2014 per the schedule set by the Minnesota Board of Water and Soil Resources (BWSR). 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 2012 achievements included:

- Completion of two streambank restoration projects: 1) Main Stem Channel, Crystal border to Regent Ave., in Golden Valley and Crystal—total project cost was \$636,100; and 2) Plymouth Creek, Medicine Lake to 26th Ave, in Plymouth—total project cost, less wetland monitoring, was \$933,600. Both projects received BWSR Clean Water Fund (CWF) grants. The projects will reduce the contribution of sediment and phosphorus carried by the creeks to downstream waters.
- Substantial completion of two outlet projects: 1) Wirth Lake Outlet Modification Project, in Golden Valley—the total estimated project cost is \$180,000; and 2) Sweeney Lake Outlet Replacement Project, in Golden Valley—the total estimated project cost is \$250,000. The Wirth Lake outlet project received a BWSR CWF grant.
- Continuing/beginning work on three other streambank restoration projects: 1) Main Stem Channel,
 Wisconsin Avenue to Rhode Island Avenue, and Duluth Street to the Golden Valley Crystal boundary, in
 Golden Valley—the total estimated project cost is \$580,200; 2) North Branch of Bassett Creek, 32nd Avenue
 North to Douglas Drive North, in the City of Crystal—the total estimated project cost is \$834,900; and 3) Main
 Stem Channel 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.
- Completed a feasibility study for the Four Seasons Mall Area Water Quality Project in Plymouth.
- BWSR approval and BCWMC adoption of, respectively, a minor plan amendment to revise BCWMC project NL-2 in the BCWMC's 10-year CIP. Per the amendment, the project name was changed to Four Seasons Mall Area Water Quality Project.

The BCWMC's 2012 operating expenditures are illustrated in the adjacent chart-{Note:will be based on final audit.} For an itemization of the operating expenditures and for more information on the BCWMC's 2012 capital projects expenditures and financial report, please 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 threeyear terms on the board.



Water Quality Activities

In 2012, the BCWMC implemented the following water quality activities:

- Participated in Metropolitan Council
 Environmental Services' Citizen-Assisted Monitoring Program
 (CAMP) for seven lakes;
- Conducted biotic index monitoring at seven sites on Bassett Creek;
- Participated in the Upper Mississippi River Bacterial TMDL with representatives on the stakeholder and TAC groups;
- Performed continuous stream monitoring on Bassett Creek, in cooperation with the Metropolitan Council Environmental Services and the Minneapolis Park and Recreation Board (WOMP station); and,
- Participated in Hennepin County's River Watch program by funding monitoring of Bassett Creek for benthic invertebrates, which are indicators of stream health.

Education Activities

In 2012, the BCWMC implemented the following education-related activities:

- Participated in 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, a local program that educates homeowners on ways to reduce runoff from home yardscapes;
- Participated in Metro WaterShed Partners, including the Minnesota Waters "Let's Keep Them Clean" media campaign.

2014 "Next Generation" Watershed Plan Activities

- Set up Plan Steering Committee comprising Commission members, Technical Advisory Committee members, and a resident and initiated monthly meetings;
- Developed a plan process timeline;
- Reviewed compilation of issues to be addressed in the plan process;
- Completed a gaps analysis;

- Notified the Plan Reviewers (as identified by BWSR) and local units of government of the plan update project and requested feedback;
- Developed a public participation process; and
- Held a public workshop to develop the BCWMC's vision statement.

I. Annual Activity Report

This annual report covers the Bassett Creek Watershed Management Commission's (BCWMC) activities for fiscal year 2012 (February 1, 2012—January 31, 2013). 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. 2012 Commissioners

| Municipality / Term Expiration | Commissioners | Alternates |
|-----------------------------------|---|--|
| Crystal | Daniel Johnson 5801 29 th Avenue North Crystal, MN 55422 | Guy Mueller 2703 Brookridge Avenue N. Crystal, MN 55422 |
| February 1, 2015 | 763-541-9006 danjohnson57@hotmail.com | 763-218-6418 guymueller1@gmail.com |
| Golden Valley | Stacy Hoschka, Treasurer 6400 Golden Valley Road Golden Valley, MN 55427 | David Hanson 1030 Angelo Drive Golden Valley, MN 55422 |
| February 1, 2015 | 763-529-4723 Harwell.hoschka@gmail.com | 763-588-1478 davewhanson@gmail.com |
| Medicine Lake February 1, 2015 | Ted Hoshal 6960 Madison Avenue West, Suite 2 Minneapolis, MN 55427-3627 763-541-1140 | John O'Toole 181 Peninsula Road Medicine Lake, MN 55441-4113 mhgo@comcast.net |
| Minneapolis | dthoshal@luma-gard.com Michael Welch, Treasurer 212 Thomas Avenue S. Minneapolis, MN 55405 | Lisa Goddard 214 Logan Avenue North Minneapolis, MN 55405 |
| February 1, 2013 | 612-385-6885 mjewelch@gmail.com | 763-475-0010 lgoddard@srfconsulting.com |
| Minnetonka February 1, 2013 | Jacob Millner (effective August 2011) 2300 Nottingham Court Minnetonka, MN 55305 jbmillner@gmail.com | Tony Wagner 1804 Traymore Road Minnetonka, MN 55305 952-512-1817 twagner@eminnetonka.com |
| New Hope February 1, 2013 | 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) |
| Plymouth February 1, 2014 | Ginny Black, Vice Chair Plymouth City Hall 3400 Plymouth Blvd Plymouth 55447 763-509-5004 Black.ginny@att.net | Judy Johnson Plymouth City Hall 3400 Plymouth Blvd Plymouth 55447 763-509-5001 jjohnson@plymouthmn.gov |
| Robbinsdale February 1, 2014 | Wayne Sicora 3706 Abbott Ave. North Robbinsdale 55422 763-532-8165 Wayne.sicora@gmail.com | Vacant |

| Municipality / Term Expiration | Commissioners | Alternates |
|-----------------------------------|---------------------------------|-----------------------|
| | Jim de Lambert, Secretary | Justin Riss |
| St. Louis Park | 9257 West 22 nd Lane | 3732 Penn Ave S. |
| | St. Louis Park, MN 55426 | St. Louis Park 55426 |
| February 1, 2014 | 763-489-3150 | justin.riss@gmail.com |
| | jimd@liesch.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

Leonard J. Kremer, P.E. Karen L. Chandler, P.E. James P. Herbert, P.E. Barr Engineering Co. 4700 West 77th Street Minneapolis, MN 55435-4803 952-832-2600

lkremer@barr.com kchandler@barr.com jherbert@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 and 2012 Work Activities

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.

2012 Work Activities Completed

In addition to the activities described in the Executive Summary, the BCWMC conducted the following activities in 2012. 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 2012, these achievements included:

- 1. Progress on CIP projects. The following CIP projects were completed or underway in 2012:
 - Bassett Creek Main Stem streambank restoration project in the cities of Golden Valley and Crystal, from the Crystal-Golden Valley border to Regent Avenue. This project was completed in September 2012.
 - Plymouth Creek streambank restoration project in Plymouth, from 26th Ave N to Medicine Lake. This project was completed in January 2012.
 - 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. Project construction is underway.
 - North Branch of Bassett Creek streambank restoration project in the City of Crystal, from 32nd Avenue North to Douglas Drive North. Project construction is underway.
 - Wirth Lake Outlet Modification Project in Golden Valley. This TMDL implementation project will improve 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. The new outlet consists of a concrete structure containing two rubber check valves.
 - Sweeney Lake Outlet Replacement Project in Golden Valley. The new outlet was substantially complete in November 2012. 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.

- Completed a feasibility study for the Four Seasons Mall Area Water Quality Project in Plymouth.
- A minor plan amendment was submitted to, and approved by, BWSR and adopted by the BCWMC in 2012 to revise project NL-2 in the BCWMC's 10-year CIP (Table 12-2): Dredge Pond NB-07 (Option 2 in Northwood Lake Plan). Per the minor plan amendment, the BCWMC changed the name of the project to Four Seasons Mall Area Water Quality Improvement Project (2013).
 - At their September 20, 2012 meeting, the BCWMC passed resolution 12-08 approving the minor plan amendment.
- At their September 20, 2012 meeting, the BCWMC passed resolution 12-09 ordering construction of the BCWMC's 2013 CIP projects: the Four Seasons Mall Area Water Quality Project in Plymouth and the Lakeview Park Pond Project in Golden Valley.
- 2. BWSR Clean Water Fund Grant Administration:
 - a. Signing a grant agreement, and preparing and gaining approval of a work plan for the BCWMC's Main Stem channel restoration project, Golden Valley Rd. to Irving Avenue N. (Cedar Lake Rd.), in Minneapolis and Golden Valley.
 - b. Submitting project updates, reports, etc. for the BWSR Clean Water Fund Grants for the following BCWMC CIP projects:
 - Main Stem channel restoration, Crystal border to Regent, in Golden Valley and Crystal
 - ii. Plymouth Creek restoration, Medicine Lake to 26th Ave N, in Plymouth
 - iii. Wirth Lake outlet modification, in Golden Valley
 - iv. Main Stem channel restoration, Golden Valley Rd. to Irving Avenue N. (Cedar Lake Rd.), in Minneapolis and Golden Valley
 - c. Closing out the Clean Water Fund 2010 Grants for the following BCWMC CIP projects:
 - Main Stem channel restoration, Crystal border to Regent, in Golden Valley and Crystal

ii. Plymouth Creek restoration, Medicine Lake to 26th Ave N, in Plymouth

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.

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 minor plan amendment for its proposed CIP project listed in the Plan's Table 12-2 as NL-2 and renamed as the Four Seasons Mall Area Water Quality Project. The goal of the 2013 project in the City of Plymouth is to reduce the phosphorous loadings to Northwood Lake by 73 pounds per year. The BCWMC held a public meeting on the proposed amendment at its July 19th meeting and continued the public meeting at the BCWMC's September 20th meeting. At the September 20th meeting, the BCWMC adopted Resolution 12-08 approving the watershed plan amendment.

• Next Generation Watershed Management Plan—In 2012, the BCWMC:

- Set up the Plan Steering Committee comprised of Commission members, Technical Advisory Committee members, and a resident and initiated monthly meetings of the committee;
- Notified the Plan Reviewers (as identified by BWSR) and local units of government of the plan update project and requested feedback;
- o Developed a public participation process;
- o Held a public workshop to develop the BCWMC's vision statement.
- o Developed a plan process timeline;
- o Reviewed a compilation of issues to be addressed in the plan process; and
- Completed a gaps analysis;

- Watershed-wide XP-SWMM Model—In 2012, the BCWMC worked on updating the current Bassett Creek watershed hydrologic and hydraulic (H & H) models to XP-SWMM. XP-SWMM incorporates hydrology and hydraulics and deals effectively with issues such as backwater and more complex outlet structures. 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. In the future, newer and/or more detailed XPSWMM models performed by others (e.g., the cities) could be integrated into the Commission's updated H & H model, further increasing the usefulness of the model to the Commission and the member cities. The updated H & H model could also be used to help the Commission evaluate/understand potential flooding risks (e.g., spring snowmelt).
- Watershed-wide P8 Water Quality Model—In 2012, the BCWMC worked on updating the current Bassett Creek watershed water quality modeling. The water quality modeling of a significant portion of the watershed was completed with an older version of the P8 Model, with best management practice (BMP) information that is representative of the treatment conditions fifteen to twenty years ago. Some major subwatersheds were updated to current land use and runoff drainage/BMP conditions when more detailed modeling was needed for Total Maximum Daily Load (TMDL) studies.

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 could be used to estimate the loading reduction that will be achieved by the projects. The updated P8 model could 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 could also use the model to evaluate individual BMPs in their cities.

Impaired Waters and Total Maximum Daily Loads (TMDL) Studies

The following water bodies in the Bassett Creek Watershed were listed in the Minnesota Pollution Control Agency's (MPCA) 2012 "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) |
| Sweeney Lake (27-0035-01) | Nutrient/Eutrophication Biological indicators (2004) |
| Wirth Lake (27-0037-00) | Nutrient/Eutrophication Biological indicators (2002) 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) |
| Northwood Lake (27-0627-00) | Nutrient/Eutrophication Biological indicators (2004) |

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

- 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.
- 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.
- 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.
- 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").

- 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 cooperating 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 will continue in 2012. Stakeholder meetings will also continue in 2012. The draft TMDL report is expected sometime in 2013. 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.
- 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.
- 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 will likely be issued between June and August 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, slated for completion in 2013, will be an essential tool for estimating reductions in phosphorus loading.

 Monitoring lake water quality on an annual basis. See Section F "2012 Water Quality Monitoring Data and Studies" regarding monitoring of these lakes in 2012.

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 2012 the BCWMC made no changes to the policy.

Annual Report—The BCWMC prepared the 2011 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 July 19 and September 20, 2012, to receive comments on the proposed minor 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 20, 2012, regarding the proposed CIP projects NL-2, the Four Seasons Mall Area Water Quality Project in the City of Plymouth, and ML-8, the Lakeview Park Pond project in the City of Golden Valley. Additionally, the BCWMC held a public workshop on December 20th to create a mission statement for the BCWMC.

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 October.

Flood Control Project Inspection—On October 30-31 and November 5, 2012, the BCWMC performed the annual flood control project inspection. The previous inspection took place in 2010. The condition of the flood control features were inspected and any erosion, settlement, sedimentation, and structural issues were recorded, compiled into a report, and reported to the Commission at its December 20, 2012, meeting. The BCWMC distributed its findings and recommendations to the Minnesota Department of Natural Resources, the Army Corps of Engineers, and staff at the BCWMC member cities.

Development Proposals—The BCWMC reviewed 37 development proposals in the watershed for conformance to water quality and flooding policies. The BCWMC reviewed 32 development proposals in 2011, and 28 development proposals in 2010. See Section E: Project Reviews.

Review of Adjacent WMO Plans/Plan Amendments—In 2012, 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 four times during the 2012 fiscal year (March 1, April 5, September 6, and January 3) 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. Development of a revised BCWMC budget document;
- 3. Development of a flow chart for the Capital Improvement Program (CIP) process and recommendations for changes to the process to be adopted in 2012 by the BCWMC;
- 4. Revision of the BCWMC's CIP table, development of a new summary table, and a map of the CIP projects;
- 5. Review and make recommendations on the BCWMC's 2014-2018 CIP;
- 6. Review and make recommendations on member cities' post-construction best management practices requirements (and review "triggers"), potential changes to water quality policies pertaining to nutrient loading increases and a water quality banking/trading program;
- 7. Review and make recommendations on the Next Generation Plan and planning process;

| Resolutions —The BCWMC passed 1 included in Appendix B. | 1 resolutions in fiscal year 2012. | Copies of the resolutions are |
|--|------------------------------------|-------------------------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

D. 2013 Projected Work Plan

Following is a list of tasks to be completed during 2013:

- Capital Improvements Program (CIP)—The BCWMC will continue to implement its capital improvements program. In 2013, 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 North Branch, 36th Ave to Bassett Creek Park –Crystal—the estimated project cost is \$834,900.
- Restore Main Stem Channel, Irving Ave (Cedar Lake Rd.), to Golden Valley Road– Minneapolis and Golden Valley—the estimated project cost is \$856,000.
- Wirth Lake Outlet Modification (TMDL implementation project)—the estimated project cost is \$180,000.
- Sweeney Lake Outlet Replacement Golden Valley (funded using flood control project long term maintenance funds)—the estimated project cost is \$250,000.
- Lakeview Park Pond Project (ML-8) in Golden Valley—the estimated project cost is \$196,000.
- Four Seasons Mall 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 BC-7, Briarwood/Dawnview Area Water Quality Improvement Project in the Main Stem watershed – Golden Valley (proposed 2014 project)
 - Project TW-2, Twin Lake In-lake Alum treatment Golden Valley (proposed 2014 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 SL-3, Schaper Pond Diversion Project (Sweeney Lake TMDL implementation project) – Golden Valley—the estimated project cost is \$550,000.
 - Project TW-2, Twin Lake in-lake alum treatment Golden Valley—the estimated project cost is \$148,000.
 - Project BC-7, Briarwood/Dawnview Area Water Quality Improvement Project in the Main Stem watershed – Golden Valley—the estimated project cost is \$200,000.
- 5. BWSR Clean Water Fund Grant Administration:
 - Submitting project updates, reports, etc. for the BWSR Clean Water Fund Grants for the following BCWMC CIP projects:
 - Wirth Lake outlet modification, in Golden Valley.
 - Main Stem channel restoration, Irving Ave to Golden Valley Road, in Minneapolis and Golden Valley.
- Watershed Management Plan—In 2013 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 three projects to its CIP:
 - Adding 2014 project SL-3 (Schaper Pond Diversion Project) in Golden Valley to modify Schaper Pond to improve the pond's ability to remove phosphorous and help meet the Sweeney Lake TMDL goals for phosphorous load reduction;
 - Adding 2014 project BC-7 (Briarwood/Dawnview Area Water Quality Improvement Project) to construct a water quality treatment project in the Main Stem watershed to reduce phosphorous loading to Bassett Creek; and,

- Adding 2014 project TW-2 to provide in-lake alum treatment of Twin Lake to address internal phosphorous loading issues in the lake as the way to prevent further water quality degradation.
- Next Generation Watershed Management Plan—In 2013, the BCWMC will continue the planning process for its Next Generation Watershed Management Plan. In 2013, the process will include:
 - Gaining stakeholder input through small group meetings and a large "summit" meeting;
 - Creating, posting, and publicizing on-line survey for public input on watershed issues;
 - o Publishing an article;
 - Developing self-assessment of past accomplishments;
 - o Reviewing water quality and water quantity monitoring programs and results;
 - o Reviewing water quality and water quantity modeling information;
 - Assessing and prioritizing issues;
 - Establishing goals, policies, and strategies;
 - Reviewing standards;
 - o Developing education and outreach plan;
 - Developing implementation program; and
 - Developing watershed plan document
- Watershed-wide XP-SWMM Model—The BCWMC will complete the updating of the current Bassett Creek watershed hydrologic and hydraulic (H & H) models to XP-SWMM.
- Watershed-wide P8 Water Quality Model—The BCWMC will complete the updating of the current Bassett Creek watershed water quality modeling.

- 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 will perform its watershed construction-site inspection program. The inspections have proved valuable in correcting erosion- and sediment-control practices that are not in conformance with BCWMC policies.
- 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.
- 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 2013 include performance of the following:
 - 1. Water Quality Monitoring: The BCWMC will perform detailed water quality monitoring of Northwood Lake in New Hope, North Rice Pond in Robbinsdale, and South Rice Pond in Robbinsdale and Golden Valley. This work is done on a 4-year revolving 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 program is managed by the Metropolitan Council Environmental Services (MCES). The lake-gauging program will include lake monitoring through CAMP. Volunteer citizens will monitor the following lakes in 2013: 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 Parkers 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 a two-year agreement with a firm 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 for 2013 and 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.
- 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 2013, the BCWMC will begin tracking the implementation of the Medicine Lake, Sweeney Lake and Wirth Lake TMDLs. The BCMWC role will 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, which will likely be issued between June and August 2013. This 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, slated for completion 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 2013.

E. 2012 BCWMC Project Reviews

Two tables have been prepared that list development proposals and other plans that were reviewed by the BCWMC and/or its engineering consultant in 2012. The following table, *Plans Presented for BCWMC Review and Comment at Commission Meetings* includes development proposals and other plans that were reviewed and discussed during the BCWMC meeting. The second table, *Plans Presented for Administrative Review and Comment*, is a list of projects that were reviewed by the BCWMC's engineer in accordance with policies of the BCWMC.

Plans Presented for BCWMC Review and Comment at Commission Meetings

| Appl. Form | Project Name | Date Submitted | City | Comments | Date of BCWMC Meeting |
|------------|--|-------------------|---------------|---|-----------------------|
| 2012-4 | GV 2012 PMP | 2/2/12 | Golden Valley | Conditional approval, Public, streets | 2/16/12 |
| 2011-22 | Bassett Creek Restoration: Wisconsin Ave to Crystal (CIP – 2011CR) | 10/2011 | Golden Valley | Conditional approval, Public – stream bank restoration | 3/15/12 |
| 2012-8 | 228 Peninsula Road | 3/21/12 | Medicine Lake | Approval, Single family residential | 4/19/12 |
| 2012-10 | Plymouth 2012 Street Reconstruction Project: Circle Park | 4/19/12 | Plymouth | Conditional approval Public – roads | 5/17/12 |
| 2012-14 | Canadian Pacific Railway Bridge Replacement @ MP 2.12 | 6/8/12 | Golden Valley | Conditional approval Railway bridge across Bassett Creek | 6/21/12 |
| 2012-16 | Sweeney Lake Boathouse (1420 Spring Valley Road) | 6/29/12 | Golden Valley | Approval, Single family residential – work in floodplain, | 7/19/12 |
| 2012-26 | 237 Peninsula Road | 10/26/12 | Medicine Lake | Conditional approval, Single family residential – work in floodplain, | 11/14/12 |
| 2012-27 | Turtle Lake Drainage Improvements | 11/28/12 | Plymouth | Conditional approval, Public – drainage | 12/20/12 |
| 2012-28 | 45th & Nathan Lane Drainage Improvements | 11/28/12 | Plymouth | Conditional approval Public – drainage | 12/20/12 |
| 2012-25 | Boone Ave. Convenience Center & Retail | 10/22/12 | Golden Valley | Conditional approval, Commercial | 1/17/13 |

Plans Presented for 2012 BCWMC Administrative Review and Comment

| Appl. Form | Project Name | Date Submitted | City | Туре |
|------------|--|-------------------|------------------|----------------------------------|
| 2012-11 | Breck School Phase 1 Addition | 4/20/12 | GV | Institutional |
| 2011-14A | Crossroads Commons Front. Rd/Site Work | 8/30/11 | Ply | Public-Road |
| 2011-14B | Crossroads Commons Senior Housing | 8/30/11 | Ply | Multiple Family Residential |
| 2011-22 | Bassett Creek Restoration: Wisconsin Ave to Crystal (CIP – 2011CR) | 10/2011 | GV | Public – Stream bank restoration |
| 2012-1 | Rational Energies Processing Facility | 1/25/12 | Ply | Industrial |
| 2012-2 | 12955 Highway 55 Parking Lot Expansion | 1/30/12 | Ply | Commercial |
| 2012-3 | Westhealth Addition | 1/30/12 | Ply | Commercial |
| 2012-4 | GV 2012 PMP | 2/2/12 | GV | Public, streets |
| 2012-5 | Bottineau Transitway Scoping Document (Draft EIS) | 1/6/12 | GV, Mpls, Rob | Public-Transit |
| 2012-6 | Robbinsdale 2011 Street Reconstruction Project | 2/23/12 | Rob | Public-Roads |
| 2012-7 | Cornerstone Auto Parking Expansion | 3/22/12 | Ply | Commercial |
| 2012-8 | 228 Peninsula Road | 3/21/12 | ML | Single Family Residential |
| 2012-9 | Ultimate Events Parking Expansion | 4/16/12 | Ply | Industrial |
| 2012-10 | Plymouth 2012 Street Reconstruction Project: Circle Park | 4/19/12 | Ply | Public-Roads |
| 2012-11 | Breck School Phase 1 Addition | 4/20/12 | GV | Institutional |
| 2012-12 | Kimberly Lane School Pavement Rehab | 5/10/12 | Ply | Institutional |
| 2012-13 | Sandburg Learning Center: East Parking Lot Addition | 5/25/12 | GV | Institutional |
| 2012-14 | Canadian Pacific Railway Bridge Replacement @ MP 2.12 | 6/8/12 | Mpls | Railway |
| 2012-15 | North Branch Bassett Creek Restoration: Douglas Avenue to 32nd Avenue CIP: 2012 CR | 6/2012 | Cry | Streambank Restoration |
| 2012-16 | Sweeney Lake Boathouse (1420 Spring Valley Road) | 6/29/12 | GV | Single Family Residential |
| 2012-17 | Parade Stadium Drive and Parking | 6/29/12 | Mpls | Public-Roads |
| 2012-18 | Lifestyle Commons II | 7/10/12 | Ply | Commercial |
| 2012-19 | 12015 & 12025 28th Ave. (Chippewa Trails Lots 9 & 10) | 8/15/12 | Ply | Single Family Residential |
| 2012-20 | The Hills of Plymouth Professional Bldg. | 8/30/12 | Ply | Commercial |
| 2012-21 | Plymouth Salt Storage Bldg. | 8/29/12 | Ply | Public-Building |
| 2012-22 | Gateway Assisted Living | 9/17/12 | SLP | Multi-Residential |
| 2012-23 | 5919 St. Croix Ave N (Hirsch Property) | 9/28/12 | GV | Single Family Residential |

| Appl. Form | Project Name | Date Submitted | City | Туре |
|------------|---|-------------------|------|--------------------------------|
| 2012-24 | 5929 St. Croix Ave. N. (Dent Property) | 9/28/12 | GV | Single Family Residential |
| 2012-25 | Boone Ave. Convenience Center & Retail | 10/22/12 | GV | Commercial |
| 2012-26 | 237 Peninsula Road | 10/26/12 | ML | Single Family Residential |
| 2012-27 | Turtle Lake Drainage Improvements | 11/28/12 | PLY | Public-Drainage |
| 2012-28 | 45th & Nathan Lane Drainage Improvements | 11/28/12 | PLY | Public-Drainage |
| 2012-29 | Sunset Hill Elem. School Building Addition | 11/20/12 | PLY | Institutional |
| 2012-30 | Eliot Park Apartments Site | Prelim | SLP | Multiple Family Residential |
| 2012-31 | Greenwood Elementary School Addition | 12/12/12 | PLY | Institutional |
| 2012-32 | Golden Valley Pavement Mgmt Proj. (PMP) | 01/17/13 | GV | Public-Roads |
| 2012-33 | I-GV-461 Relief Force Main | 01/17/13 | GV | Public-Utility |

F. 2012 Water Quality Monitoring Data and Studies

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

- Bassett Creek Biotic Index Monitoring (3-year cycle)—Assessing the benthic invertebrates found in a stream provides a long-term assessment of its water quality. During 1980, 1983, 1991, 1995, 2000, 2003, 2006, 2008, 2009 and 2012 benthic invertebrates were collected from Plymouth Creek, the Sweeney Lake Branch, the North Branch and the Main Stem of Bassett Creek to evaluate its water quality and to detect changes in water quality over time. Hilsenhoff's Biotic Index and the Invertebrate Community Index (ICI) were used to evaluate existing water quality and assess changes. The BCWMC prepared the report "A Biotic Index Evaluation of Bassett Creek and Plymouth Creek: 2012" (BCWMC, March 2013) is appended. The report is available on the BCWMC Web site (http://www.bassettcreekwmo.org).
- Citizens Assisted Lake Monitoring Program (CAMP)— The BCWMC participated with the Metropolitan Council Environmental Services (MCES) in its citizen-assisted lakemonitoring program (CAMP). In 2012, 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 in Plymouth, and Westwood Lake in St. Louis Park. For results of the 2011 CAMP, see 2011 Study of the Water Quality Of 169 Metropolitan Area Lakes (Met Council, December 2012) [the report on the 2012 CAMP is not yet available]. The report is also available on the Metropolitan Council website at http://www.metrocouncil.org/getattachment/4a8c163e-a0a3-48cc-af98-ab8c77cccb1d/.aspx.
- Detailed stream monitoring at Bassett Creek WOMP station—Stream monitoring was performed in cooperation with the Metropolitan Council Environmental Services (MCES) and the Minneapolis Park and Recreation Board (MPRB) as part of the stream monitoring and watershed outlet monitoring program (WOMP). The MPRB ceased operating the WOMP station on June 25, 2012; MCES operated the station for the remainder of the year. See the MCES website for additional information:

 http://www.metrocouncil.org/environment/RiversLakes/index.htm.
- Wirth Lake and Spring Lake Monitoring Data and Bassett Creek WOMP Data—The Minneapolis Park & Recreation Board (MPRB) monitored the water quality of Wirth Lake

and Spring Lake in 2012 and performed a qualitative study on the artificial islands in Spring Lake in 2012. The MPRB operated the Bassett Creek WOMP station until June 25, 2012. 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 2012. The 2012 results are available from TRPD.
- Stormwater flow monitoring and in-stream water quality monitoring in the Medicine Lake and Northwood Lake watershed was performed on behalf of the City of Plymouth by the Three Rivers Park District (TRPD). The 2012 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 was one River Watch site in the Bassett Creek watershed in 2012 – site GM, which is located on Betty Crocker Drive in the City of Golden Valley. The report *Hennepin County River Watch 2012* will be available

online in 2013 at:

http://www.hennepin.us/portal/site/HennepinUS/menuitem.b1ab75471750e40fa01dfb47ccf06 498/?vgnextoid=04eafcb677d33210VgnVCM10000049114689RCRD

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 throughout 2012. In 2012, there were approximately 108,090 visits, or 295 per day. A copy of the website Usage Report from January 1, 2012, through December 31, 2012, is included in the appendices. The BCWMC's meeting calendar is on the website to inform the public of the Commission and Committee meetings. The address for the Bassett Creek Watershed Management Commission website is http://www.bassettcreekwmo.org.
- **BCWMC Meeting Packet** Each month in 2012 the BCWMC posted electronic meeting packets on its website and mailed a hard copy of the monthly meeting packets 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.
- Communications Coordination—The BCWMC will continue to implement a public information plan as recommended by the Policy and Citizens Advisory Groups at its November 13, 2001, special meeting.
- 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.
- 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.

I. Professional Services Proposal

In accordance with Minnesota Statutes, Section 103B.227, Subdivision 5, the BCWMC solicited letters of interest in 2012 for legal and for engineering and technical consulting services.

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 administrating 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 2012, the BCWMC submitted to BWSR its WCA annual report covering all 2011 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. Annual Financial Report

The 2012 fiscal year for the Bassett Creek Watershed Management Commission (BCWMC) commenced on February 1, 2012 and ended January 31, 2013.

A. Approved Budget

The approved operating budget for fiscal year 2012 was \$724,045. 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 2012 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, 2013, 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.