



# Memorandum

**To:** Bassett Creek Watershed Management Commission  
**From:** Technical Advisory Committee  
**Subject:** January 3, 2013 Technical Advisory Committee Meeting  
**Date:** January 9, 2013

The Technical Advisory Committee (TAC) met on January 3, 2013. The following TAC members, city representatives, BCWMC commissioners, and BCWMC staff attended the meeting:

City	TAC Members/Alternates	Other City Representatives
Crystal	Tom Mathisen	
Golden Valley	Jeff Oliver	
Medicine Lake	Absent	
Minneapolis	Lois Eberhart	
Minnetonka	Absent	
New Hope	Guy Johnson, Chris Long	Alternate Commissioner Pat Crough
Plymouth	Derek Asche	
Robbinsdale	Richard McCoy	
St. Louis Park	Laura Adler	
BCWMC Staff	Karen Chandler, Laura Jester	

The Technical Advisory Committee (TAC) forwards the following recommendations to the Commission for its consideration. This memorandum presents the recommendations relating to 1) the annual review of the Commission's CIP and developing a draft five-year CIP for 2015 – 2019 and 2) development of a Commission budget document.

## 1. Annual CIP Review: Develop a Draft Five-Year BCWMC CIP for 2015 – 2019

In accordance with the Commission-approved CIP process flow chart, the TAC is to meet in December or January to develop a draft five-year CIP for 2015-2019. Ultimate Commission approval of the five-year CIP is needed by the April 18 Commission meeting.

At their January 3 meeting, the TAC reviewed the BCWMC CIP. The TAC discussed the remaining projects on the CIP and the member cities brought forward new projects to add to the CIP. The TAC proposes the following modifications to the BCWMC CIP (proposed year of implementation in parentheses):

- Add a water quality improvement project in Golden Valley (project BC-2/BC-8) to improve water quality of Bassett Creek and provide flood protection benefits. This project is proposed to be a single project (not two), located south of the intersection of Sandburg Road and Louisiana Avenue (2019)

Projects BC-2 and BC-8 are per the recommendations in the 2000 Bassett Creek Main Stem Watershed Management Plan and are included in the Commission's Resource Management Plan (RMP). The 2000 study assumed construction of water quality treatment ponds in each location. Project BC-2 would treat runoff from the surrounding industrial area and the basin would remove 67 pounds of phosphorus per year. Project BC-8 would provide additional treatment to stormwater runoff from a series of upstream basins and remove an additional 15 pounds of phosphorus per year. The proposed ponds would also enhance the efficiency of downstream basins, and reduce the frequency of maintenance (i.e. removal of accumulated sediment) of downstream basins.

The TAC also recommends that the proposed type of project not yet be limited to a "wet" pond, as a different type of water quality treatment project besides a pond may be more appropriate at the site.

The attached map from the RMP shows the location of projects BC-2 and BC-8.

- Revise Plymouth Creek restoration project to cover the reach from Annapolis Lane to 2,500 feet upstream of Annapolis Lane through Plymouth Creek Regional Playfield (2016).

The TAC proposes revising the location of this project, originally proposed to cover Reach 2 of Plymouth Creek, from 26<sup>th</sup> Avenue North to Fernbrook Lane. The portion of Reach 2 from Fernbrook Lane to Annapolis Lane would be included in the proposed project. The portion of Reach 2 from 26<sup>th</sup> Avenue North to just upstream of 28<sup>th</sup> Avenue North was completed as part of the 2010 Plymouth Creek restoration project. No work is proposed at this time downstream of Annapolis Lane because the City of Plymouth's erosion survey does not identify significant issues in the remainder of the reach.

The portion of the proposed reach upstream (west) of Fernbrook was not included in the Commission's RMP and is not included in the Commission's CIP in the Watershed Management Plan. However, the proposed reach of the creek is included in the City of Plymouth's erosion survey.

The attached map from the City of Plymouth shows the project location.

- Revise water quality improvement project in New Hope (project NL-1) to include constructing a pond west of Northwood Lake, just east of Highway 169, either in place of, or in addition to constructing ponds NB 29A, B. Delete the references to constructing ponds NB 35A, B, C, as they have already been built (2017).

This project is in the Northwood Lake watershed, and is per the recommendations in the 1996 Northwood Lake Watershed and Lake Management Plan. In the 1996 study, the NL 1 water

quality improvement project consisted of two components: 1) construction of a three-cell pond system NB 35; and 2) construction of a two-cell pond system NB 29. However, the first component of project NL-1, pond system NB 35, has been completed, and is referred to as BC P2.5B by the City of New Hope (Local Water Management Plan, City of New Hope, September 2008).

The remaining component of project NL-1 is the construction of new detention basins NB 29A and NB 29B. The NB 29 pond system is referred to as BC P2.5C in the City of New Hope Local Water Management Plan (September 2008). The two-cell pond system would be located immediately north of the southern end of Northwood Lake, west of Boone Avenue North. The 1996 found that pond NB 29A and NB29 B would treat runoff from a 115-acre residential watershed and remove 29 pounds of phosphorus per year.

The City of New Hope would also like to further explore the possibility of constructing a pond west of Northwood Lake, directly east of Highway 169. This project would either be in addition to the NB 29A and NB 29B project, or in place of the project, depending on the amount of treatment that can be obtained and other considerations.

The TAC also recommends that the proposed type of project not yet be limited to a “wet” pond, as a different type of water quality treatment project besides a pond may be more appropriate at the site.

The attached map from the RMP shows the location of project NL-1.

The TAC requests that the Commission review and provide feedback regarding the draft 2015-2019 CIP (see attached). Assuming the Commission has comments or questions about the CIP, the TAC will meet in February to discuss them. The TAC would then bring final recommendations back to the Commission for approval at the Commission’s March or April meeting.

### **Recommendations**

1. The TAC recommends that the Commission discuss and provide feedback to the TAC regarding the draft 2015-2019 CIP.
2. The TAC recommends that the Commission direct the TAC to review the draft CIP recommendations at the February 7 TAC meeting, and make a final CIP recommendation for the Commission’s March or April meeting.

## **2. Development of Commission Budget Document**

At its July 21, 2011 meeting, the Commission authorized formation of a subcommittee (John Elder, Sue Virnig, Lee Gustafson, Geoff Nash and Karen Chandler) to work on finding a new way to report the Commission’s finances (in particular the construction account). The goals were to allow for more transparency and understanding of the Commission’s finances. The committee met once, on August 9, 2011 and discussed ideas and a mock-up for a finance/budget report. The TAC discussed the development of such a budget document, and reviewed the August 2011 mock-up prepared by Minnetonka staff. The TAC recommended focusing on the CIP first and that the budget document

follow a format similar to that used by the cities for their capital projects. Attached is one-page example description of a capital project, plus a summary page that lists the CIP projects from 2015 – 2019.

The TAC recommends that the Commission review the draft information, provide feedback and direct the TAC as to whether they are interested in further pursuing development of the budget document. Should the Commission wish to continue with the development of the document, the TAC recommends that they meet in February, March and April to complete the development of the draft document, including development of the administrative financial documents (e.g., administration fund, channel maintenance fund, etc.) in addition to the CIP documents.

### **Recommendations**

1. The TAC recommends that the Commission review the draft information and provide feedback to the TAC regarding the CIP document.
2. The TAC recommends that the Commission direct the TAC and Commission Engineer to complete development of the CIP document.
3. The TAC recommends that the Commission direct the TAC to meet in February, March and April to continue development and discussion of the CIP and administrative financial documents.

### **3. Next TAC Meeting**

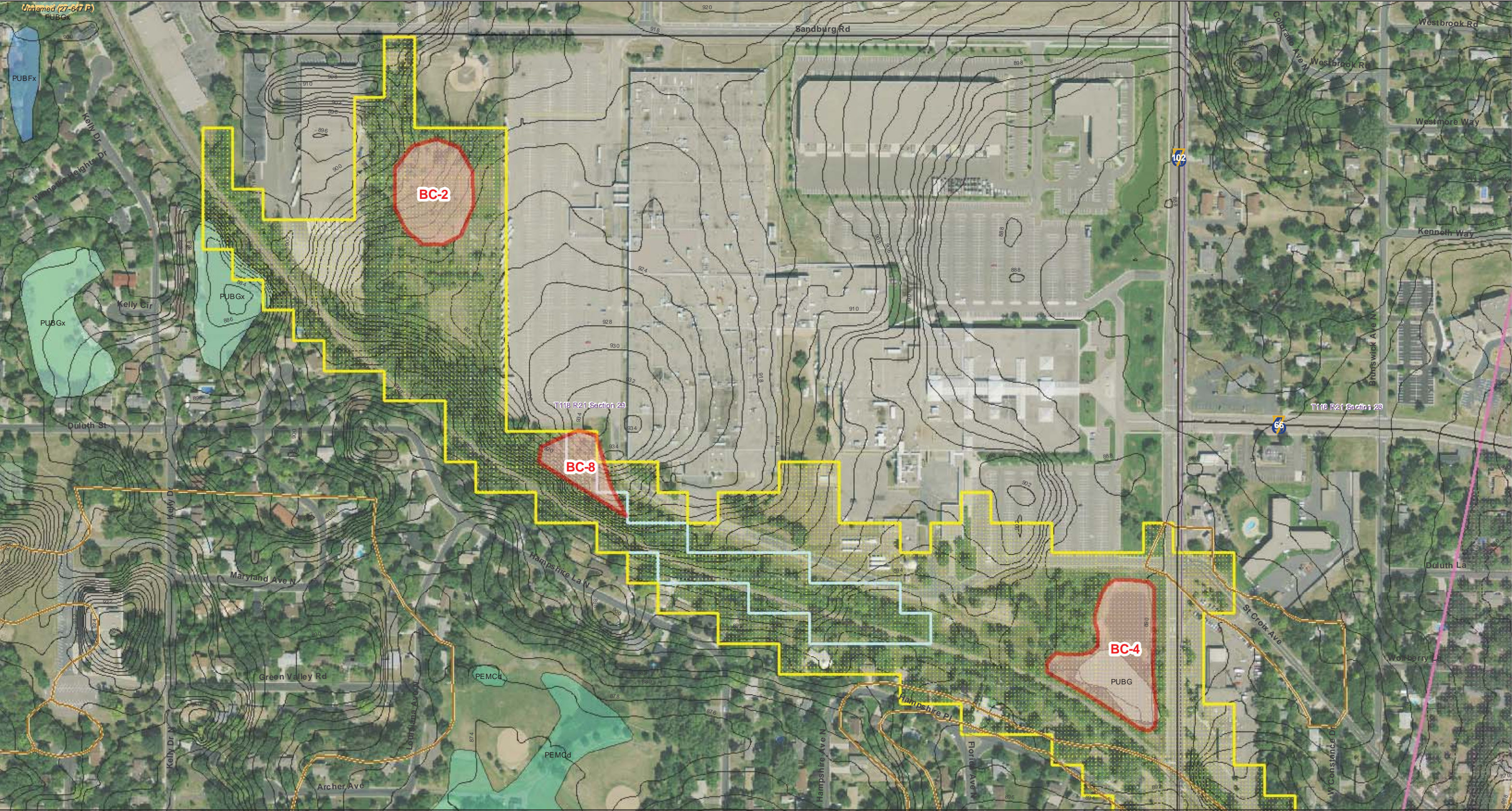
Next TAC meetings: February 7, March 7, and April 4, 2013. Agenda items include:

1. Further develop and recommend a 5-year CIP for the years 2015 – 2019.
2. Further develop and discuss the CIP and administrative financial documents.

### **Future TAC Meeting agenda items:**

1. At the May 17, 2012, meeting, the BCWMC discussed comparing the BCWMC thresholds for its water quality treatment standards with adjoining WMOs/ WDs.
2. Look into implementing “phosphorus-budgeting” in the watershed – allow “x” pounds of TP/acre.





Bassett Creek Watershed Management Commission  
www.bassettcreekwmo.org

300 150 0 300  
Feet



Approximate Pond Boundary



Creek Project Limit

Streams and Tunnels

Open Channel

Culvert or Bridge

Tunnel

Stream Realignment



MnDNR Protected Waters



NHIS Rare Feature



Regionally Significant Ecological Area



Regional Ecological Corridor



Central Region Green Infrastructure



NRCS Hydric Soils



2 ft. Topographic Contours



10 ft. Topographic Contours



Township Range Section

National Wetland Inventory



Deep marsh



Municipal/industrial



Riverine



Seasonally flooded basin or flat



Shallow marsh



Shallow open water



Shrub swamp



Wet meadow

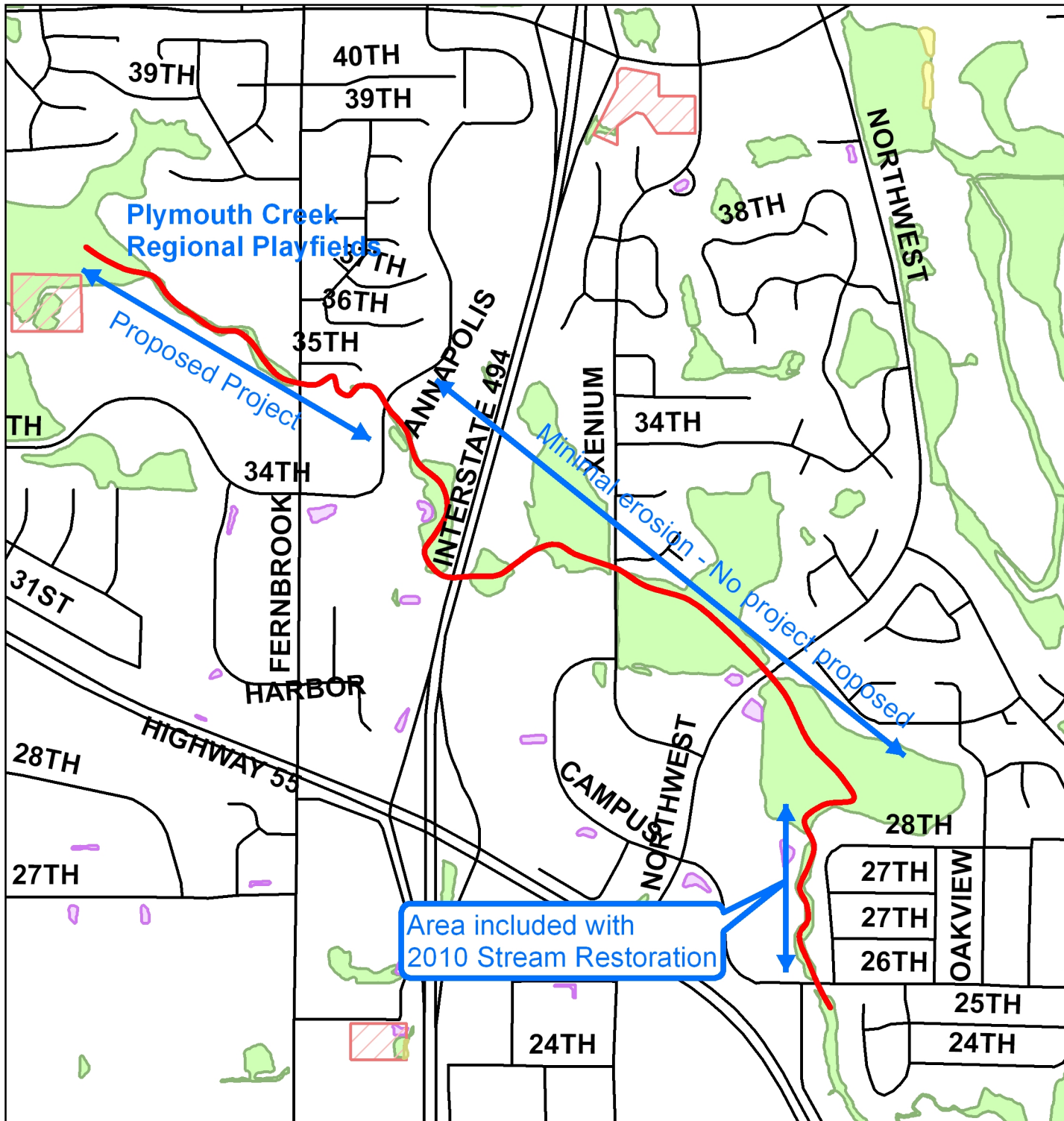


Wooded swamp

PONDS BC-2, BC-8, and BC-4

Figure 7  
Resource Management Plan  
Bassett Creek  
Watershed Management Commission  
April 2009





# Plymouth Creek Stream Restoration

Annapolis Lane upstream through Plymouth Creek Regional Playfields

## Legend

-  Wetland Delineation Available
-  Wetland
-  Water Quality Ponding
-  Wetland Mitigation
-  Plymouth Creek







Bassett Creek Watershed Management Commission  
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300 150 0 300  
Feet



Approximate Pond Boundary



Creek Project Limit

Streams and Tunnels

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Culvert or Bridge

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Township Range Section



National Wetland Inventory



Deep marsh



Municipal/Industrial



Riverine



Seasonally flooded basin or flat



Shallow marsh



Shallow open water



Shrub swamp



Wet meadow



Wooded swamp

PONDS NL-1 AND NL-2

Figure 4  
Resource Management Plan  
Bassett Creek  
Watershed Management Commission  
April 2009



# Draft Recommended Bassett Creek WMC Capital Improvements Program

## Revised Per January 3, 2013 TAC Meeting

Year	Project Description	Project Number	Estimated Cost	Proposed Assessment
<b>Projects Underway:</b>				
2011	Restore Main Stem Channel, Duluth St. to Crystal Border-Golden Valley	2011CR	\$580,200 <sup>1</sup>	Approved Assessment <sup>2</sup>
2011	Restore North Branch, 36 <sup>th</sup> Ave to Bassett Creek Park-Crystal	2011CR	\$834,900 <sup>3</sup>	Approved Assessment <sup>4</sup>
2012	Schaper Pond Enhancements, Feasibility Study – Golden Valley	SL-1	\$37,000	\$37,000 – 2011 <sup>5</sup>
2012	Wirth Lake Outlet Modification (TMDL Implementation Project) – Golden Valley	WTH-4	\$180,000 <sup>6</sup>	Approved Assessment <sup>7</sup>
2012	Restore Main Stem Channel, Cedar Lake Rd to Golden Valley Road-Minneapolis & Golden Valley	2012CR	\$856,000 <sup>8</sup>	Approved Assessment <sup>9</sup>
2012	Sweeney Lake Outlet Replacement – Golden Valley	FC-1	\$250,000	\$0 <sup>10</sup>
2013	Four Seasons Mall Area Water Quality Project, Northwood Lake Watershed-Plymouth	NL-2	\$990,000 <sup>11</sup>	Approved Assessment <sup>12</sup>
2013	Lakeview Park Pond Medicine Lake Watershed – Golden Valley	ML-8	\$196,000 <sup>13</sup>	Approved Assessment <sup>14</sup>
<b>Projects Approved by BCWMC for 2014 CIP, But Not Yet Ordered:</b>				
2014	Schaper Pond Diversion Project Sweeney Lake Watershed – Golden Valley	SL-3	\$550,000	\$550,000 – 2014
2014	Water Quality Improvement Site Main Stem Watershed – Golden Valley	BC-7	\$200,000 <sup>15</sup>	\$200,000 – 2014
2014	Twin Lake In-Lake Alum Treatment Twin Lake Watershed – Golden Valley	TW-2	\$100,000	\$100,000 – 2014
<b>TAC-Recommended Future CIP Projects for Consideration by BCWMC:</b>				
2015	Restore Main Stem Channel, 10 <sup>th</sup> Ave. to St. Croix Ave. – Golden Valley	2015CR	\$1,000,000	\$1,000,000-2015
2016	Water Quality Improvement Site Main Stem Watershed –Minneapolis	BC-5	\$160,000 <sup>15</sup>	\$160,000-2016
2016	Honeywell Pond Expansion Main Stem Watershed – Golden Valley	BC-4	\$285,000 <sup>16</sup>	\$285,000 – 2016
2016	Restore Plymouth Creek, From Annapolis Lane to 2,500 feet upstream (west) of Annapolis Lane – Plymouth	2016CR	\$559,000 <sup>17</sup>	\$555,000-2016 \$4,000-2017
2017	Restore Main Stem Channel, Cedar Lake Road to Irving Ave – Minneapolis	2017CR	\$800,000	\$800,000 – 2017
2017	Construct Pond NB 29A,B, and pond west of Northwood Lake, just east of Highway 169 Northwood Lake Watershed – New Hope	NL-1	\$595,000 <sup>17</sup>	\$196,000-2017 \$399,000 – 2018
2018	Water Quality Improvement Sites Main Stem Watershed – Golden Valley	BC-3	\$1,100,000 <sup>15</sup>	\$601,000 – 2018 \$499,000 – 2019
2019	Sandburg Rd and Louisiana Ave. Water Quality Improvement and Flood Reduction Project Main Stem Watershed – Golden Valley	BC-2/BC-8	\$501,000 <sup>18</sup>	\$501,000 – 2019
2019	Divert Lancaster Lane Storm Sewer Northwood Lake Watershed—Plymouth	NL-3	\$59,000 <sup>17</sup>	\$59,000-2019

<sup>1</sup>September, 2010, *Feasibility Report for Bassett Creek Restoration Project – Reach 1*

<sup>2</sup> Approved 2011 assessment \$160,700; balance funded from reserves

<sup>3</sup>September, 2010, *Feasibility Report for North Branch Bassett Creek Restoration Project*



<sup>4</sup> Approved 2011 assessment \$415,400, balance funded from reserves

<sup>5</sup> Funded from reserves

<sup>6</sup> July, 2011 *Feasibility Report for the Wirth Lake Outlet Modification Project*

<sup>7</sup> Approved 2012 assessment \$83,111; \$21,889 funded from reserves; balance (\$75,000) funded through BWSR Clean Water Fund grant

<sup>8</sup> June, 2011, *Feasibility Report for the 2012 Bassett Creek Main Stem Restoration Project, Golden Valley Road to Irving Avenue North*

<sup>9</sup> Approved 2012 assessment \$678,599; balance (\$177,101) funded from reserves; project also received BWSR Clean Water Fund Grant (\$217,500)

<sup>10</sup> Funded using flood control project long term maintenance funds

<sup>11</sup> July, 2012 *Four Seasons Mall Water Quality Improvement Feasibility Report*

<sup>12</sup> Approved 2013 assessment \$824,000, balance (\$166,000) funded from reserves

<sup>13</sup> June, 2011 update to August, 2004 *Lakeview Park—Proposed Water Quality Pond* feasibility study

<sup>14</sup> Approved 2013 assessment \$162,000, balance (\$34,000) funded from reserves

<sup>15</sup> Bassett Creek CIP, 2012 cost update; previous version of CIP table showed a cost estimate of \$1,300,000 for all three sites (BC-3, BC-5, and BC-7), assuming construction of a pond at each site, cost shown is estimate for each pond separately, based on the relative project cost in the 2000 study *Bassett Creek Main Stem Watershed Management Plan*.

<sup>16</sup> Placeholder cost estimate (cost estimate shown was for proposed BC-8 project, which this project replaces); project cost estimate expected in 2013. Cost shown is the portion of the total project costs that would provide water quality treatment above and beyond the city of Golden Valley's/BCWMC's requirements.

<sup>17</sup> Bassett Creek CIP, 2008 cost update

<sup>18</sup> Placeholder cost estimate.



**Bassett Creek Watershed Management Commission**  
**Capital Improvement Program**  
**2015 - 2019**

<b>Project Name</b>	<b>Project Location (City)</b>	<b>Project Number</b>	<b>Priority</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>Totals</b>
Main Stem Channel Restoration, 10th Ave. to St. Croix Ave.	Golden Valley	2015CR	?	\$ 1,000,000					\$1,000,000
Water Quality Improvement Site, Main Stem Watershed	Minneapolis	BC-5	?		\$ 160,000				\$160,000
Honeywell Pond Expansion, Main Stem Watershed	Golden Valley	BC-4	?		\$ 285,000				\$285,000
Plymouth Creek Restoration, from Annapolis Lane to 2,500 feet upstream (west) of Annapolis	Plymouth	2016CR	?		\$ 555,000	\$ 4,000			\$559,000
Main Stem Channel Restoration, Cedar Lake Road to Irving Ave	Minneapolis	2017CR	?			\$ 800,000			\$800,000
Construct Pond NB 29A,B, and pond west of Northwood Lake, just east of Highway 169, Northwood Lake Watershed	New Hope	NL-1	?			\$ 196,000	\$ 399,000		\$595,000
Water Quality Improvement Site, Main Stem Watershed	Golden Valley	BC-3	?				\$ 601,000	\$ 499,000	\$1,100,000
Sandburg Rd and Louisiana Ave. Water Quality Improvement and Flood Reduction Project, Main Stem Watershed	Golden Valley	BC-2/BC-8	?					\$ 501,000	\$501,000
Divert Lancaster Lane Storm Sewer, Northwood Lake Watershed	Plymouth	NL-3	?					\$ 59,000	\$59,000
<b>Totals</b>				<b>\$ 1,000,000</b>	<b>\$ 1,000,000</b>	<b>\$ 1,000,000</b>	<b>\$ 1,000,000</b>	<b>\$ 1,059,000</b>	<b>\$ 5,059,000</b>

*Following this page could be a watershed map showing the project locations*



**Project Category:** Water Quality

**Project Title:** Main Stem Channel Restoration, 10th Ave. to St. Croix Ave., Golden Valley

**Total Estimated Cost:** \$1,000,000

**Funding Priority:** ?

**Project Number:** 2015CR

**Description:**

This project will include bank stabilization measures for erosion sites and corrective measures to address detrimental obstructions in the stream channel.

Source of Project Funding	2015	2016	2017	2018	2019
CIP account – BCWMC ad valorem levy through Hennepin County	\$1,000,000				

**Justification:**

The City of Golden Valley's erosion inventory includes many erosion sites and obstructions along this stretch of creek. Continued erosion of the stream will increase the sediment loading of the stream and carry more pollutants downstream

**Scheduling and Project Status:**

A feasibility study will need to be prepared for this project, as the 2010 feasibility report did not cover this subreach. A major plan amendment will also be required.

As the project progresses, feasibility study, levy and grant information could be added, as applicable.

**Relationship to General Plan and Other Projects:**

This project is consistent with the goals and policies of the BCWMC Watershed Management Plan and is included in the BCWMC's Resource Management Plan. However, a major plan amendment will be required to add the project to the BCWMC's CIP.

This project includes most of Subreach 2 of Reach 1, as identified in the 2010 Feasibility Report for Bassett Creek Restoration Project - Reach 1. Subreaches 1 and 3 of Reach 1 were included in previously-completed or ordered projects.

**Effect on Annual Operations Costs:**

No effect.

