



Bassett Creek Watershed Management Commission

Regular Meeting and Public Hearing

8:30 a.m. – 11:00 a.m.

Thursday, October 16, 2014

Council Chambers, Golden Valley City Hall
7800 Golden Valley Rd., Golden Valley MN

AGENDA

1. CALL TO ORDER and ROLL CALL

2. **CITIZEN FORUM ON NON-AGENDA ITEMS** - *Citizens may address the Commission about any item not contained on the regular agenda. A maximum of 15 minutes is allowed for the Forum. If the full 15 minutes are not needed for the Forum, the Commission will continue with the agenda. The Commission will take no official action on items discussed at the Forum, with the exception of referral to staff or a Commissions Committee for a recommendation to be brought back to the Commission for discussion/action.*

3. APPROVAL OF AGENDA

4. CONSENT AGENDA

- A. Approval of Minutes of September 18, 2014 Commission Meeting
- B. Approval of Financial Report
- C. Approval of Payment of Invoices
 - i. Keystone Waters, LLC –September 2014 Administrator Services
 - ii. Barr Engineering –September 2014 Engineering Services
 - iii. Amy Herbert – September 2014 Secretarial Services
 - iv. ACE Catering – October 2014 Meeting Refreshments
 - v. Wenck – September 2014 WOMP Monitoring
 - vi. Kennedy Graven – August 2014 Legal Services
 - vii. Southwest News – Public Hearing Notice
 - viii. Hedberg Maps – Watershed Map Development and Printing
 - ix. Hoshal Advertising – Watershed Map Research and Development
- D. Approval of Markay Ridge Streambank Stabilization Project, Golden Valley
- E. Approval of Agreement with Golden Valley for Use of Channel Maintenance Funds
- F. Approval of Plymouth City Flats, Plymouth

5. PUBLIC HEARING

- A. Receive Comments from Cities or Public on the Proposed 2015 Capital Improvement Program (CIP)
Project: Main Stem Restoration Project, Golden Valley (CR2015) (*feasibility study online*)

6. BUSINESS

- A. Consider Resolution Ordering 2015 Improvements
- B. Consider Approval of Agreement with City of Golden Valley for Construction of Main Stem Restoration Project (CR2015)
- C. Review Draft Feasibility Report for Honeywell Pond Expansion (BC-4)
- D. Consider Moving Forward with Twin Lake Alum Treatment
- E. Receive Update on Next Generation Watershed Management Plan Development
 - i. Plan Steering Committee Meeting Notes from 8/25/14
 - ii. Results of Commission Workshop 10/8/14
 - iii. Timeline and Next Steps
- F. Review 2014 Budget Status
- G. Review Technical Advisory Committee (TAC) Memo

7. COMMUNICATIONS

- A. Administrator's Report
- B. Chair
- C. Commissioners
- D. TAC Members
- E. Committees
- F. Legal Counsel
- G. Engineer

8. INFORMATION ONLY (Information online only)

- A. Grant Tracking Summary and Spreadsheet
- B. WMWA September 2014 Meeting Minutes
- C. WCA Notice, Plymouth
- D. BWSR Snapshots Article on Wirth Lake
- E. Invitation to Metro Blooms to Garden Awards Event 11/6
- F. Invitation to Mississippi River Forum 10/17: Can We Harvest Rainwater for Indoor Use?
- G. Invitation to Met Council Water Resources Policy Plan Workshops 10/21, 10/23, or 10/30
- H. Invitation to a Talk by MPCA Commissioner at Barr Engineering 10/23/14

9. ADJOURNMENT

Upcoming Meetings

- Next Gen Plan Steering Committee, Monday October 20, 4:30 – 6:30 p.m., Golden Valley City Hall
- November Commission Meeting, **WEDNESDAY** November 19, 8:30 a.m., Golden Valley City Hall

Future Commission Agenda Items list

- Develop fiscal policies
- Medicine Lake rip-rap issue over sewer pipe
- Presentation on joint City of Minnetonka/ UMN community project on storm water mgmt
- State of the River Presentation
- Presentation on chlorides

Future TAC Agenda Items List

- Develop guidelines for annualized cost per pound pollutant removal for future CIP projects
- Stream identification signs at road crossings
- Blue Star Award for cities
- Look into implementing "phosphorus-budgeting" in the watershed – allow "x" pounds of TP/acre.



Bassett Creek Watershed Management Commission

AGENDA MEMO

Date: October 8, 2014

To: BCWMC Commissioners

From: Laura Jester, Administrator

RE: Background Information for 10/16/14 BCWMC Meeting

1. **CALL TO ORDER and ROLL CALL**

2. **CITIZEN FORUM ON NON-AGENDA ITEMS**

3. **APPROVAL OF AGENDA – ACTION ITEM**

4. **CONSENT AGENDA**

A. Approval of Minutes of September 18, 2014 Commission Meeting – **ACTION ITEM with attachment**

B. Approval of Financial Report - **ACTION ITEM with attachment**

C. Approval of Payment of Invoices - **ACTION ITEM with attachments**

- i. Keystone Waters, LLC –September 2014 Administrator Services
- ii. Barr Engineering –September 2014 Engineering Services
- iii. Amy Herbert – September 2014 Secretarial Services
- iv. ACE Catering – October 2014 Meeting Refreshments
- v. Wenck – September 2014 WOMP Monitoring
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D. Approval of Markay Ridge Streambank Stabilization Project, Golden Valley - **ACTION ITEM with attachment** – *The proposed streambank restoration on Bassett Creek is located at two single-family residential lots. The proposed restoration includes placement of rock boulders and vegetated reinforced soil slope (VRSS) against the bank to deter further erosion. Scour areas adjacent to the rock boulders will be filled with riprap. Approximately 5,000 square feet will be graded as part of this project with no change in impervious surface. (Full project plan set can be found in 4E below.)*

E. Approval of Agreement with Golden Valley for Use of Channel Maintenance Funds – **ACTION ITEM with attachments** - *The Commission maintains a small "Channel Maintenance Fund" for smaller stream restoration or channel maintenance projects. Golden Valley is requesting the use of up to \$75,000 to restore the streambank described in 4D above. Staff recommends approving the agreement with the City of Golden Valley. (Attachments 1 and 2 of the agreement are available online including a full project plan set.)*

F. Approval of Plymouth City Flats, Plymouth – **ACTION ITEM with attachment** - *The proposed apartment complex is located at the southwest corner of Highway 55 and Highway 169 in Plymouth near the Bassett Creek Main Stem. It includes 4.1 acres of grading and a 1.9-acre increase in impervious surface. Staff recommends conditional approval with comments in the attached memo.*

5. **PUBLIC HEARING**

A. Receive Comments from Cities or Public on the Proposed 2015 Capital Improvement Program (CIP) Project: Main Stem Restoration Project, Golden Valley (CR2015) (feasibility study online)
The public hearing will be opened and the public and cities will be asked for comments on the project proposed to be added to the 2015 CIP. All comments will be entered into the public record and will

be considered before the Commission orders the project (6A below) and enters into an agreement with the City of Golden Valley (6B below).

6. BUSINESS

- A. Consider Resolution Ordering 2015 Improvements – **ACTION ITEM with attachment** – *The Major Plan Amendment adding this project to the Commission's CIP was adopted at the 9/18/14 meeting and costs were since certified to Hennepin County. Depending on the comments received during the public hearing (above), the Commission should order the Main Stem Restoration Project (CR2015).*
- B. Consider Approval of Agreement with City of Golden Valley for Construction of Main Stem Restoration Project (CR2015) – **ACTION ITEM with attachment** – *Once the project is ordered by the resolution in 6A, an agreement with the City of Golden Valley should be considered for the implementation (design and construction) of the Main Stem Restoration Project (CR2015) at a reimbursement cost not to exceed \$1,503,000 less Commission expenses. Staff recommends approval.*
- C. Review Draft Feasibility Report for Honeywell Pond Expansion (BC-4) – **ACTION ITEM with attachment (figures and full report online)** – *At the 9/22/14 meeting, the Commission reviewed the draft feasibility study for this project. After some discussion, the item was tabled until this meeting in order for the City's consultant to refine the study and address the Commission Engineer's questions and recommendations. Staff recommends the Commission approve the draft feasibility study, with recommended changes noted in the attached memo, and provide direction to the City of Golden Valley regarding which alternatives should be implemented.*
- D. Consider Moving Forward with Twin Lake Alum Treatment – **ACTION ITEM with attachment** – *This item was tabled from the September Commission meeting. At the 9/19/13 meeting, the Commission approved a major plan amendment to include this project in its CIP. However, at the time the Commission did not enter an agreement with Golden Valley to begin the project due to questions about possibly improving water quality in the lake. Additionally, the Commission wondered if certain fish species or abundance would shorten the effectiveness of the alum treatment. After fish surveys in 2013, more data collection in 2014, and further review of the data, the Commission Engineer, Golden Valley staff, and I recommend moving forward with the in-lake alum treatment. Please see the memo attached.*
- E. Receive Update on Next Generation Watershed Management Plan Development – **INFORMATION ITEM** – *Staff will provide an update on the Plan development including a "debrief" of the 10/8/14 Commission Workshop and timeline for completing the Plan.*
 - i. Plan Steering Committee Meeting Notes from 8/25/14 – **with attachment**
 - ii. Results of Commission Workshop 10/8/14
 - iii. Timeline and Next Steps
- F. Review 2014 Budget Status – **DISCUSSION ITEM with attachment** – *At the 8/12/14 meeting, the Commission reviewed a mid-year budget status and asked staff to bring updated figures to this meeting. Please see the memo attached (including a memo from me and one from the Commission Engineer, combined). Aside from the Next Generation Plan budget, I anticipate a \$7,800 budget surplus at the end of the fiscal year and do not recommend changing or stopping any Commission programs or projects at this time.*
- G. Review Technical Advisory Committee (TAC) Memo – **ACTION ITEM with attachment** – *The TAC met on 10/2/14 to discuss multiple items including the Implementation Plan for the updated watershed management plan; revisions needed for the Commission's "Requirements Document; development of guidelines for annualized cost per pound pollutant removal for CIP projects; and stream identification signs at road crossings. The TAC forwards the recommendations contained in the memo for the Commission's consideration.*

7. COMMUNICATIONS - INFORMATIONAL ITEMS with attachment

- A. Administrator's Report – *Report including an update on all current CIP projects is attached*
- B. Chair
- C. Commissioners
- D. TAC Members
- E. Committees
- F. Legal Counsel
- G. Engineer

8. INFORMATION ONLY - INFORMATIONAL ITEMS with documents online only

- A. Grant Tracking Summary and Spreadsheet
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- E. Invitation to Metro Blooms to Garden Awards Event 11/6
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9. ADJOURNMENT

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Bassett Creek Watershed Management Commission

Minutes of Regular Meeting September 18, 2014 Golden Valley City Hall, 8:30 a.m.

Commissioners and Staff Present:

Crystal	Guy Mueller, Vice President	Robbinsdale	<i>Not represented</i>
Golden Valley	Commissioner Stacy Hoschka, Treasurer	St. Louis Park	Commissioner Jim de Lambert, Chair
Medicine Lake	Commissioner Clint Carlson	Administrator	Laura Jester
Minneapolis	Commissioner Michael Welch	Attorney	Charlie LeFevere, Kennedy & Graven
Minnetonka	Commissioner Jacob Millner, Secretary	Engineer	Karen Chandler, Barr Engineering Co.
New Hope	Alternate Commissioner Pat Crough	Recorder	Amy Herbert
Plymouth	Commissioner Ginny Black		

Technical Advisory Committee (TAC) Members/ Other Attendees Present:

Derek Asche, TAC, City of Plymouth	Laura Leonhardt, New Hope
Daniel Baine, New Hope Resident	Linda Loomis, Chair, Plan Steering Committee
Sandy Baine, New Hope Resident	Shawn Markham, City of New Hope,
Chris Call, Landform	Tom Mathisen, TAC, City of Crystal
David Comb, Golden Valley Resident	Richard McCoy, TAC City of Robbinsdale
LeighAnn Comb, Golden Valley Resident	Jane McDonald Black, Alternate Commissioner, City of Golden Valley
Manfred Deutsch, New Hope Resident	Mr. McKenna, City of New Hope
Marjorie Deutsch, New Hope Resident	Tony Miller, WSB & Associates
Eric Eckman, TAC, City of Golden Valley	Jake Newhall, WSB & Associates
Andrea Feldman, New Hope Resident	Jeff Oliver, TAC, City of Golden Valley
Harvey Feldman, New Hope Resident	John O'Toole, Alternate Commissioner, City of Medicine Lake
Erick Francis, TAC, City of St. Louis Park	Bob Paschke, TAC, City of New Hope
Christopher Gise, Golden Valley Resident	Tory Peterson, Perpich Center for the Arts

Jim Prom, City of Plymouth

David Tobelman, Alternate Commissioner, City of
Plymouth

Brad Schleeter, Stantec

Bernie Weber, City of New Hope

Jim Spevacek, New Hope Resident

Robert White, Northwood Lake; New Hope Resident

Liz Stout, TAC, City of Minnetonka

Pete Willenbring, WSB & Associates

1. CALL TO ORDER AND ROLL CALL

On Thursday, September 18, 2014, at 8:36 a.m. in the Council Chambers at Golden Valley City Hall, Chair de Lambert called to order the meeting of the Bassett Creek Watershed Management Commission (BCWMC) and asked for roll call to be taken. The Cities of Minneapolis and Robbinsdale were absent from the roll call.

2. CITIZEN FORUM ON NON-AGENDA ITEMS

No items were raised.

3. APPROVAL OF AGENDA

Commissioner Black moved to approve the agenda. Commissioner Mueller seconded the motion. Upon a vote, the motion carried 7-0 [Cities of Minneapolis and Robbinsdale absent from vote].

4. CONSENT AGENDA

Commissioner Black moved to approve the Consent Agenda. Commissioner Mueller seconded the motion. Upon a vote, the motion carried 7-0 [Cities of Minneapolis and Robbinsdale absent from vote].

[The following items were approved as part of the Consent Agenda: the August 11, 2014, Commission Workshop minutes, the August 21, 2014, Commission Meeting minutes, the monthly financial report, the payment of the invoices, Approval to set Technical Advisory Committee meeting for October 2, 2014, and Approval of Winnetka Commons Project, New Hope.]

The general and construction account balances reported in the Financial Report prepared for the September 18, 2014, meeting are as follows:

Checking Account Balance	\$602,004.10
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TOTAL GENERAL FUND BALANCE	\$602,004.10
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TOTAL CASH & INVESTMENTS ON-HAND (9/09/14)	\$3,056,153.98
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CIP Projects Levied – Budget Remaining	(\$2,740,073.12)
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Closed Projects Remaining Balance	\$316,080.86
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2013 Anticipated Tax Levy Revenue	\$8,756.59
2014 Anticipated Tax Levy Revenue	\$428,419.50
Anticipated Closed Project Balance	\$753,256.95

5. PUBLIC HEARING

Administrator Jester reminded the Commission that at its June 2014 meeting it approved the final feasibility study for this 2015 project to restore 1.8 miles of Bassett Creek in Golden Valley. She explained that today's public hearing is to receive public comments on the proposed project.

Chair de Lambert opened the public hearing.

Pete Willenbring of WSB & Associates said he assisted the City of Golden Valley in the development of the feasibility report for the 2015 Bassett Creek Main Stem Restoration Project. He summarized that the project is similar to other Bassett Creek restoration projects that the Commission has undertaken. He said the project runs 9,400 linear feet of creek channel from a location just west of the Golden Valley Country Club and it continues east to Douglas Drive, on the west side of Highway 100.

Mr. Willenbring described the inspection of the channel and the findings of bank failures as well as tree and canopy growth along the channel, which prevented vegetation from growing along the banks in some locations. He explained that the feasibility study provided two options for the project, depending on the restoration location. Mr. Willenbring described the first option as a soft armoring approach where the project would try to allow for more sunlight to penetrate along the creek channel and use more of a vegetative stabilization practice. He stated that the second option is more of a hard armoring approach, using more rock, which would be more present in areas where there is limited ability to shape the bank and very steep side slopes and less ability to provide light.

Mr. Willenbring said that residents need to be involved in the final design to provide input on their preferences between the two options for locations on or near their property.

Mr. Willenbring reported that right now the focus is on the option of doing soft armoring throughout the channel except in areas where light can't be provided. He said that in those areas a hybrid would be implemented and in no case is the project looking at only hard armoring without some type of vegetation.

Chair de Lambert called for additional comments. Hearing none, Chair de Lambert closed the public hearing.

Commissioner Black asked how residents are being informed about the tree removal that is part of the proposed project. Mr. Willenbring said that a public meeting with relatively good turnout was held, although not all of the residents attended that are along that reach of the channel. He said that at the meeting all of the objectives and options were presented, including the objective of removing all of the trees that are falling in or at risk of falling in to the creek. Mr. Willenbring said that those trees have been identified. He also reported that WSB and the City have just started the process of walking the properties along the channel with the residents.

Commissioner Black asked for more information on the estimated project cost, which is indicated to be between 1.3 and 1.6 million dollars. Mr. Willenbring stated that access to the sites in channel restoration projects is difficult for the contractors and the ease or difficulty of the access can vary a lot from one part of

the creek to another. Mr. Willenbring explained the bidding process can help refine the project budget. He noted that the contract documents are drafted in such a way as to provide that type of flexibility.

Commissioner Mueller asked if the project will be reviewed by any other agency. Administrator Jester responded that the Commission Engineer will review and the Commission will see the 50% plans and the 90% plans and that a permit is required for the project so the Minnesota Department of Natural Resources will comment on the plans. She added that the Commission is not taking action today because there will be a public hearing on the project at the Commission's October meeting for the cities to comment.

6. BUSINESS

A. Consider Resolution Approving Major Plan Amendment to Include 2015 CIP Project

Administrator Jester explained that in order to put the 2015 Bassett Creek Restoration Project in the Commission's CIP, the Commission went through a major plan amendment process. She reported that the Minnesota Board of Water and Soil Resources approved the Major Plan Amendment at its meeting in August. Administrator Jester stated that the final step is for the Commission to approve the Major Plan Amendment.

Commissioner Black moved to adopt Resolution 14-04 Approving Watershed Plan Amendment.

Commissioner Hoschka seconded the motion. Upon a vote, the motion carried unanimously 7-0 [Cities of Minneapolis and Robbinsdale absent from vote].

B. Consider Resolution Making Findings Pursuant to Minnesota Statutes, Section 103B.251 and Certifying Costs to Hennepin County

Commissioner Black asked how the Commission is planning to cover the costs of the upcoming CIP projects. Administrator Jester said that the Commission's precedent has been to levy for its capital projects at an amount of approximately \$1,000,000. She noted that the cost estimate for the 2015 Bassett Creek Restoration Project is \$1,300,000 - \$1,600,000 and although a more exact figure won't be known until later, it is likely that this project will be more than \$1,000,000. Administrator Jester explained that in the past in order to pay for projects and bring the levy down, the Commission has used funds from its Closed Project Account, which has an estimated balance of more than \$700,000. She added that the Commission likes to keep \$250,000 in its closed project account but not more than that amount. Administrator Jester recommended spending down the closed project account to \$250,000 and if the 2015 Bassett Creek Restoration Project funds aren't fully used, the balance would stay in the Closed Project Account.

She commented that the next two agenda items are also expensive, more than the Commission had anticipated, so the Commission may consider leaving more money in its Closed Project Account to pay for other projects. There was discussion.

Commissioner Black moved to direct staff to certify to Hennepin County the levy of \$1,000,000 for 2015 projects as laid out by the Resolution 14-05 and to approve the transfer of up to \$503,000 from the Closed Project Account as needed for the 2015 CIP project. Alternate Commissioner Crough seconded the motion.

Attorney LeFevere said that the Commission is just earmarking those Closed Project Account funds rather than transferring them. He explained that at next month's meeting, the Commission will take action on the 2015 Bassett Creek Main Stem Project and consider entering into an agreement with the City, which will identify the total reimbursable cost. Commissioner Black and Alternate Commissioner Crough indicated agreement to amending the motion to remove the direction to transfer the Closed Project Account funds. Upon a vote, the motion carried unanimously 7-0 [Cities of Minneapolis and Robbinsdale absent from vote].

C. Review Draft Feasibility Report for Northwood Lake Improvement Project (NL-1)

Administrator Jester explained that the Commission is on an accelerated timeline for its 2016 projects in order to dovetail the Golden Valley project with a street reconstruction project. She introduced New Hope Director of Public Works Bob Paschke, who introduced Brad Schleeter of Stantec.

Engineer Chandler reminded the Commission that it approved the project as part of its 2016 – 2020 CIP and that there are two separate components to this project, one on the east side of Northwood Lake and one on the west side. She said that the original total estimated cost for the two parts together was \$595,000.

Mr. Schleeter provided information on the three concepts proposed in the feasibility report for the Northwood Lake Improvement project. He explained Concept A as a combination of stormwater best management practices (BMPs). Mr. Schleeter stated that the proposal is to redirect existing storm sewer from Boone Avenue, install additional storm sewer along Boone Avenue, install an underground storage tank for runoff, and provide pretreatment through a structural stormwater BMP upstream of the tank to remove the bulk of the larger sediment coming through the storm sewer. He noted that the stormwater directed to the underground tank would be stored and ultimately pumped to irrigate approximately 0.64 acres of existing ball and soccer fields on the east side of Boone Avenue. Mr. Schleeter provided details on the process handling overflow from the tank and talked about installing a sump feature.

He explained that this concept will provide high pollutant removal benefits including removal of total phosphorous (TP) and total suspended solids (TSS) as well as providing volume reduction benefits. He spoke about the aesthetic benefits to this concept and the water conservation benefits. Mr. Schleeter noted that this concept utilizes innovative practices and is the sort of project that would be favorable to grants. He said the downside of the project is the cost, which is high due to the storm sewer rerouting, the cost of the tank, and the cost of the piping for the irrigation of the ball fields.

Mr. Schleeter introduced Concept B, which similar to Concept A is located in Northwood Park. He said this concept includes the construction of a water quality pond in a portion of the park. Mr. Schleeter remarked that it would be a standard water quality pond that would remove TP and TSS from the stormwater. He said the City would be familiar with the maintenance associated with the stormwater pond. He explained the drawbacks to this concept include no volume control benefits and the lack of public support due to use of parkland for a pond.

Mr. Schleeter reported that Concept C is located on the west side of Northwood Lake adjacent to Jordan Avenue. He said it includes the construction of a water quality pond for approximately 19 acres of drainage. Again he said that the pond would be effective in reducing TP and TSS and the City is familiar with maintenance needs of a stormwater pond. Mr. Schleeter said that there isn't necessarily an aesthetic benefit to the pond since there aren't any trails going around the pond.

Mr. Schleeter went through Tables 4, 5, and 6 from the draft feasibility report detailing the maintenance costs, the 30-year costs and associated phosphorous removal numbers, and potential funding sources. He said that they identified maintenance costs, spread over a 30-year lifespan, for Concept A as \$531,000, maintenance costs of Concept B as \$435,000, and maintenance cost of Concept C as \$350,000.

Administrator Jester pointed out that on page 2 of the Barr Engineering memo there is a table that summarizes the design costs and the phosphorous removal at an annualized cost per benefit.

There was discussion of the costs of the three concepts and the timing of the city applying for and finding out about grants. Engineer Chandler pointed out that the Commission isn't eligible to apply for Clean Water Fund grants this round because of the status of its watershed management plan. She said that the City can apply for

a BWSR Clean Water Fund grant, the applications are due in approximately a week, and decisions are made in approximately December.

[Commissioner Welch arrives]

Commissioner Black asked about the timing of the Commission's action with this proposed project. Administrator Jester said that if the Commission wants to participate in this project, the Commission needs to get the project on its CIP by going through the plan amendment process. She said the Commission can't initiate the plan amendment process until it decides which option to pursue.

There was extensive discussion of the options, combination of options, and costs versus benefits. Commissioner Tobelmann commented that he likes the innovation of Concept A and thinks the Commission needs to be innovative, but he also noted that Concept A provides a lot of benefit to the City of New Hope. He wondered if the City is willing to put up a greater share of the cost for Concept A. Mr. Schleeter said it is something that he could raise to the New Hope City Council.

A resident commented on the runoff coming from 169 and asked if a project would happen on the other side of 169. Commissioner Black responded that the project on the west side of 169 has been delayed because of residents' objections to taking so many trees out of that area where the creek runs through, but the City of Plymouth is meeting with residents and working to decide what can be done. Mr. Asche provided more details about the project located in Plymouth. He explained that it treats a different drainage area than the Northwood Lake project, meaning that both projects will reduce phosphorous and will benefit Northwood Lake but the timing of the two aren't correlated.

There was discussion of funding the Northwood Lake project and the project in the City of Plymouth. Administrator Jester remarked that the Commission has already levied for the project in the City of Plymouth.

Commissioner Welch commented that the City of New Hope needs to look at the cost-sharing structure and investigate how the funding of this project could be different. Commissioner Tobelmann asked if there is a way to quantify the benefits of the project so that the Commission can review and decide which benefits it is willing to pay for and at what level. He added that he thinks the Commission needs to encourage innovative projects and he doesn't want to walk away from Concept A for this project.

A resident commented that the park has aesthetic value to New Hope, and she didn't want to lose park space. A different resident spoke in favor of Concept A because it is innovative, allows the park to maintain maximum useful space, and optimizes the low space in the park that now can't optimally be used.

Commissioner Carlson moved to approve the draft feasibility report without any limitations and to request that the City of New Hope provide information on project funding to be supplied from other sources besides the Commission. Commissioner Mueller seconded the motion. There was discussion.

Commissioner Welch commented that at some point the Commission is going to need to make a choice, and he made an amendment to the motion to direct that the Commission Engineer's comments are incorporated. Commissioner Black seconded the motion.

Commissioner Hoschka asked how long the water is held in the storage tank after a storm event. Mr. Schleeter responded two weeks. Commissioner Hoschka wondered how it works during wet periods in which the fields wouldn't need irrigation. Mr. Schleeter stated that it was sized to hold two weeks of irrigation at an inch and one-half of irrigation per week from mid-April to mid-October and was calculated to accommodate the anticipated dry and wet periods within those months. There was discussion.

Engineer Chandler announced that she would like to add one more recommendation to its list of

recommendations for the draft feasibility study. She said she would like the feasibility report to include a definition of what's included in indirect costs.

Chair de Lambert asked if anyone objects to including the additional Engineer recommendation to the recommendations included in Commissioner Welch's motion. Upon hearing no objections, Chair de Lambert announced that the additional recommendation is included in Commissioner Welch's motion. Chair de Lambert asked if there was any additional discussion for the motion on the table. Upon hearing none, Chair de Lambert called for a vote. Upon a vote, the motion to amend the motion carried unanimously 8-0 [Cities of Robbinsdale absent from vote].

There was discussion on Commissioner Carlson's motion.

Commissioner Black suggested looking at the funding mechanism used by the Shingle Creek WMO. She said that it is critical to unpack the costs and benefits of the proposed Northwood Lake project and to identify who should be the primary payer of those costs.

Mr. McCoy asked if a TMDL has been done on Northwood Lake. He asked if there is internal loading in the lake and if so, how much it's contributing to the problem. Mr. McCoy asked if it would be prudent to get the TMDL done to accurately determine the pollution sources. Ms. Chandler responded that a TMDL has not been done, but Northwood Lake is an impaired water. She explained that in 1994 the watershed did a lake study on Northwood Lake and identified a number of projects to reduce the phosphorous loading including one of the project locations being considered along with other work the watershed has considered and New Hope has implemented.

There was further discussion.

Commissioner Black moved to amend Commissioner Carlson's motion by directing the costs and the benefits of the project to be unpacked particularly for Concept B (read: A), limiting the Commission's involvement in the project to \$595,000, looking at how the remainder of the costs can be covered, and bringing into the discussion the Shingle Creek model for paying for the project. Commissioner Mueller seconded the motion. Administrator Jester noted that the TAC and the Commission have previously talked about the Shingle Creek model and decided that it is easier for the Commission to pay for the projects in full. Commissioner Black said that it was discussed a long time ago and now projects cost more and it is worth looking at again.

Upon a vote, the motion to amend Commissioner Carlson's motion carried unanimously 7-0 [City of Robbinsdale absent from vote. City of Minneapolis abstained from vote].

Upon a vote, Commissioner Carlson's motion carried unanimously 7-0 [City of Robbinsdale absent from vote. City of Minneapolis abstained from vote].

Chair de Lambert called for a 10-minute recess.

[Commissioner Millner departs the meeting]

D. Review Draft Feasibility Report for Honeywell Pond Expansion (BC-4)

At 10:55 a.m. Chair de Lambert called the meeting back to order. Mr. Oliver reported that this project is proposed to be done in conjunction with the City of Golden Valley's and Hennepin County's reconstruction of Douglas Drive between Medicine Lake Road and Trunk Highway 55. He said the intent of the request for Commission funding when this project was placed in the Commission's CIP was to help the City go above and beyond the water quality requirements of the project.

Mr. Oliver said there are a lot of moving parts to the project and a menu of options available. He provided the example that the City has to acquire right-of-way from Honeywell for the roadway project, so some of the

options may or may not be feasible depending on how those negotiations proceed. He reported that the City has applied for a grant for converting the learning center's fields into a soccer complex, which is the impetus for the project's proposal for irrigation. Mr. Oliver noted that if the City doesn't receive that grant, then that part of the project comes off the table.

Mr. Oliver said that the City's budget for the overall storm sewer and water quality is \$900,000. He stated that at this point in time, the estimate is \$375,000 for the cost of the storm sewer work as well as water quality improvements in other locations, which leaves the City with \$525,000 available in its budget for additional water quality improvements. Mr. Oliver remarked that with the BCWMC funding, there is \$810,000 available for water quality improvements.

Mr. Oliver provided information about the existing Honeywell Pond and briefly introduced the different improvements that have been considered for this project.

Ms. Chandler asked for clarification about whether the cost estimate included costs for hazardous material disposal. Mr. Willenbring responded that for the "muck" excavation, the project estimates a cost of \$30 per yard, or total estimate of \$180,000. He said that the estimate is based on the belief that the soils will be mostly clean with maybe a little bit of contamination since most of the excavation is in the upland area. Ms. Chandler asked if the cost could increase if contaminated soils are found. Mr. Willenbring responded that the excavation cost could go upwards of \$60 per yard for contaminated soils. He pointed out that a 25% contingency cost is built into the project cost.

Mr. Willenbring responded to questions and spoke about how the project ties in with the road reconstruction project. He displayed a map of the proposed project. Mr. Oliver reported on their communications with Honeywell and residents.

Administrator Jester asked how the estimated pounds of phosphorous removed per year was calculated and if the Commission's models were used. Mr. Willenbring said that two models were used in this feasibility report to estimate some of the benefits of the project. He said that one model was the BCWM C's hydrologic model, and he explained the process used. There was discussion. Administrator Jester brought up recommendation No. 8 in the Commission Engineer's memo, which states that the feasibility study should provide more information about the methodology used to estimate the total phosphorous removed for each of the actions. She asked Engineer Chandler to elaborate on that recommendation.

Engineer Chandler said that she understands that the P8 model was used for one or two of the options but that model or another methodology should be used and laid out in the feasibility study in order to be able to better judge the different options. She noted that the results or benefits of combined options aren't always additive, so modeling the scenarios would give an accurate picture of the anticipated results.

Mr. Willenbring explained that a P8 model wasn't used to model the other scenarios because those scenarios include use of a pump to irrigate ball fields, or perhaps Honeywell could use it on their site, or perhaps a water gallery system that could be part of the project on the west side of Douglas Drive. He said that this type of pumping isn't something that is modeled in P8. He said that the phosphorous removal in these cases can be determined through a calculation and is predicated by how much water is taken off. There was discussion.

Mr. Oliver requested that the City and WSB work with the Commission Engineer and discuss the issues raised and table this feasibility study for a month.

Commissioner Black moved to table this discussion until the Commission's October meeting. Commissioner Hoschka seconded the motion. Administrator Jester asked if that motion includes bringing a revised draft feasibility study to the Commission for its October meeting. There was consensus from the Commission and

Mr. Oliver. Commissioner Welch recommended that the Commission Engineer and the feasibility study engineer sit down and work on the issues that have been raised.

[Commissioner Crough departs the meeting]

Upon a vote, the motion carried unanimously 6-0 [Cities of Minnetonka, New Hope, and Robbinsdale absent from vote.].

E. Order Submittal of Plan Amendment to BWSR for 2016 Projects

Administrator Jester announced that this item should be tabled until the Commission has more information on the Northwood Lake projects and the Honeywell Pond expansion project. She said that this item will come back to the Commission at its October meeting.

F. Consider Approval of Briarwood/ Dawnview Water Quality Improvement Project 90% Plans (BC-7)

Administrator Jester stated that this is a 2014 CIP project and construction is slated to start soon. She reminded the Commission that the project treats stormwater from 184 acres of residential area. Administrator Jester pointed out that the option that the Commission chose, the iron-enhanced sand filter, is now estimated to remove less phosphorous than was previously estimated and presented to the Commission.

Commissioner Black said that there are a number of recommendations identified in the Commission Engineer's memo and asked if recommendations are an issue for the project. Engineer Chandler responded that all of the comments are important details but the Commission Engineer does not have issues with the design of the project.

Commissioner Black moved to approve the project with the inclusion of the Commission Engineer's recommendations. Commissioner Hoschka seconded the motion.

There was discussion about the location of the closest house to the pond. Commissioner Welch commented about the huge change in design between the 50% plans and the 90% plans. He said that the option that the Commission selected is not the option that is designed to be built. There was a long discussion. Administrator Jester noted that the process needs to involve residents earlier.

Upon a vote, the motion carried 5-1 [Cities of Crystal, Golden Valley, Medicine Lake, Plymouth, and St. Louis Park in favor; City of Minneapolis opposed; Cities of Minnetonka, New Hope, and Robbinsdale absent from vote.].

G. Consider Moving Forward with Twin Lake Alum Treatment

Item was deferred to the Commission's October meeting.

H. Receive Update on Next Generation Watershed Management Plan Development: Plan Steering Committee Meeting Notes from 7/28/14; Input Needed to Update Implementation Tables; Plans for Upcoming Workshop (slated for 10/9/14)

Administrator Jester announced that the Commission needs to set a date for another workshop. The Commission discussed and agreed to hold the workshop October 8th from 4 p.m. to 6 p.m. Administrator Jester listed the items that need to be discussed at the workshop.

7. COMMUNICATIONS

A. Administrator: No Administrator Communications

B. Chair: No Chair Communications

C. Commissioners:

- i. Commissioner Welch announced that the bid opening on the creek project in Minneapolis is on October 1.
- ii. Commissioner Hoschka reported on Golden Valley Arts and Music Festival and the Commission's participation in the event.
- iii. Commissioner Mueller reported on participating in the Walk-about along Medicine Lake.
- iv. Commissioner Carlson noted that the City of Medicine Lake has appointed him as the City's representative on the BCWMC TAC until such time as another candidate is appointed.

D. TAC Members: No TAC Communications

E. Committees: No Committee Communications

F. Legal Counsel: No Legal Communications

G. Engineer:

- i. Engineer Chandler reported that the 8410 Rule amendment is in process again. She said that if the BWSR Board approves it then on October 6 there will be a publication of the proposed rule amendment in the State Register. She explained that if there is no objection, such as in the form of a contested public hearing, then the amendment could be promulgated by the end of the year. Engineer Chandler pointed out that one of the big changes would be that the city local water management plans no longer would be tied into the schedule of the watershed management plans but to their comprehensive planning schedule.

8. INFORMATION ONLY (Available at <http://www.bassettcreekwmo.org/Meetings/2014/2014-September/2014SeptemberMeetingPacket.htm>)

- A. Grant Tracking Summary and Spreadsheet
- B. WMWA June 2014 Meeting Minutes
- C. WCA Notices, Plymouth

9. ADJOURNMENT

Chair de Lambert adjourned the Bassett Creek Watershed Management Commission meeting at 11:55 a.m.

Amy Herbert, Recorder

Date

Date

(UNAUDITED)

Item 4B.
 BCWMC 10-16-14

BEGINNING BALANCE	9-Sep-14	602,004.10
ADD:		
General Fund Revenue:		
Interest less Bank Fees	(4.85)	
Permits:		
Landform Prof Services	1,700.00	
Porsche of Mpls	2,200.00	
AK Investments	2,000.00	
Sambatek	500.00	
LGA Investment	2,000.00	
Reimbursed Construction Costs	12,654.00	
	Total Revenue and Transfers In	21,049.15
DEDUCT:		
Checks:		
2675 Barr Engineering	Sept Engineering Services	39,473.18
2676 D'Amico Catering	Oct Meeting	199.80
2677 Amy Herbert LLC	Sept Secretarial	1,569.56
2678 Kennedy & Graven	Aug Legal	1,399.99
2679 Keystone Waters LLC	Sept Administrator	4,942.90
2680 Wenck Associates	Outlet Monitoring	960.00
2681 Hedberg Maps Inc	Map printing	8,344.93
2682 Hoshal Advertising	Map project	2,700.00
2683 Southwest Newspapers	PH Notice	52.25
	Total Checks	59,642.61
ENDING BALANCE	6-Oct-14	563,410.64

	2014/2015 BUDGET	CURRENT MONTH	YTD 2014/2015	BALANCE
OTHER GENERAL FUND REVENUE				
ASSESSMENTS	490,345	0.00	490,344.00	1.00
PERMIT REVENUE	60,000	8,400.00	32,800.00	27,200.00
REVENUE TOTAL	550,345	8,400.00	523,144.00	27,201.00
EXPENDITURES				
ENGINEERING				
ADMINISTRATION	120,000	5,255.66	81,435.30	38,564.70
PLAT REVIEW	65,000	4,580.50	35,066.70	29,933.30
COMMISSION MEETINGS	16,000	1,162.50	11,844.58	4,155.42
SURVEYS & STUDIES	20,000	0.00	7,445.66	12,554.34
WATER QUALITY/MONITORING	45,000	4,401.74	48,497.54	(3,497.54)
WATER QUANTITY	11,000	414.12	9,527.82	1,472.18
WATERSHED INSPECTIONS	1,000	0.00	60.00	940.00
ANNUAL FLOOD CONTROL INSPECTIONS	20,000	0.00	247.50	19,752.50
REVIEW MUNICIPAL PLANS	2,000	0.00	0.00	2,000.00
ENGINEERING TOTAL	300,000	15,814.52	194,125.10	105,874.90
PLANNING				
WATERSHED-WIDE SP-SWMM MODEL	0	0.00	0.00	0.00
WATERSHED-WIDE P8 WATER QUALITY MODEL	0	0.00	0.00	0.00
NEXT GENERATION PLAN	40,000	10,919.98	40,548.77	(548.77)
PLANNING TOTAL	40,000	10,919.98	40,548.77	(548.77)
ADMINISTRATOR	60,000	4,942.90	37,456.25	22,543.75
LEGAL COSTS	18,500	1,300.49	15,216.62	3,283.38
AUDIT, INSURANCE & BONDING	15,500	0.00	12,476.00	3,024.00
FINANCIAL MANAGEMENT	3,045	0.00	0.00	3,045.00
MEETING EXPENSES	3,000	199.80	1,315.05	1,684.95
ADMINISTRATIVE SERVICES	35,800	1,608.74	14,373.11	21,426.89
PUBLICATIONS/ANNUAL REPORT	2,000	0.00	2,272.00	(272.00)
WEBSITE	2,000	0.00	0.00	2,000.00
PUBLIC COMMUNICATIONS	3,000	52.25	1,103.75	1,896.25
WOMP	17,000	960.00	10,175.20	6,824.80
EDUCATION AND PUBLIC OUTREACH	15,000	11,044.93	15,393.00	(393.00)
WATERSHED EDUCATION PARTNERSHIPS	15,500	0.00	5,720.00	9,780.00
EROSION/SEDIMENT (CHANNEL MAINT)	25,000	0.00	0.00	25,000.00
LONG TERM MAINTENANCE (moved to CF)	25,000	0.00	0.00	25,000.00
TMDL STUDIES	20,000	145.00	5,909.00	14,091.00
GRAND TOTAL	600,345	46,988.61	356,083.85	244,261.15
		Current	YTD	
Construct Exp		12,654.00	66,514.95	
Total		59,642.61	422,598.80	

Cash Balance 09/09/14			
Cash		2,056,153.98	
Investments:		1,000,000.00	
Total Cash & Investments			3,056,153.98
Add:			
Interest Revenue (Bank Charges)		(26.33)	
Henn County Property Tax Levy			
Total Revenue			(26.33)
Less:			
CIP Projects Levied - Current Expenses - TABLE A		(5,474.50)	
Proposed & Future CIP Projects to Be Levied - Current Expenses - TABLE B		(7,179.50)	
Total Current Expenses			(12,654.00)
Total Cash & Investments On Hand	10/06/14		3,043,473.65
Total Cash & Investments On Hand		3,043,473.65	
CIP Projects Levied - Budget Remaining - TABLE A		(2,728,308.72)	
Closed Projects Remaining Balance		315,164.93	
2013 Anticipated Tax Levy Revenue - TABLE C		8,756.59	
2014 Anticipated Tax Levy Revenue - TABLE C		428,419.50	
Anticipated Closed Project Balance		752,341.02	
Proposed & Future CIP Project Amount to be Levied - TABLE B		0.00	

TABLE A - CIP PROJECTS LEVIED

	Approved Budget	Current Expenses	2014 YTD Expenses	INCEPTION To Date Expenses	Remaining Budget
Plymouth Creek Channel Restoration (2010 CR)	965,200.00	0.00	0.00	933,688.61	31,511.39
Wisc Ave/Duluth Street-Crystal (2011 CR)	580,200.00	0.00	0.00	580,200.00	0.00
Wirth Lake Outlet Modification (WTH-4)(2012) 5/13 Increase Budget - \$22,500	202,500.00	0.00	31.00	201,513.94	986.06
Main Stem Irving Ave to GV Road (2012 CR)	856,000.00	1,716.50	11,061.40	147,822.95	708,177.05
Lakeview Park Pond (ML-8) (2013)	196,000.00	0.00	0.00	11,589.50	184,410.50
Four Seasons Mall Area Water Quality Proj (NL-2) 2014	990,000.00	0.00	0.00	101,635.49	888,364.51
Schaper Pond Enhance Feasibility/Project (SL-1)(SL-3)	612,000.00	99.50	12,959.90	76,244.90	535,755.10
Briarwood / Dawnview Nature Area (BC-7)	250,000.00	1,435.50	7,256.00	13,886.09	236,113.91
Twin Lake Alum Treatment Project (TW-2)	163,000.00	2,223.00	4,660.00	20,009.80	142,990.20
	4,814,900.00	5,474.50	35,968.30	2,086,591.28	2,728,308.72

TABLE B - PROPOSED & FUTURE CIP PROJECTS TO BE LEVIED

	Approved Budget - To Be Levied	Current Expenses	2014 YTD Expenses	INCEPTION To Date Expenses	Remaining Budget
2015					
Main Stem 10th to Duluth	0.00	589.00	9,144.00	10,502.75	(10,502.75)
2015 Project Totals	0.00	589.00	9,144.00	10,502.75	(10,502.75)
2016					
Bryn Mawr Meadows (BC-5)	0.00	0.00	5,282.80	5,282.80	(5,282.80)
Honeywell Pond Expansion (BC-4)	0.00	4,173.50	5,249.45	5,249.45	(5,249.45)
Northwood Lake Pond (NL-1)	0.00	2,417.00	3,158.25	3,158.25	(3,158.25)
2016 Project Totals	0.00	6,590.50	13,690.50	13,690.50	(13,690.50)
Total Proposed & Future CIP Projects to be Levied	0.00	7,179.50	22,834.50	24,193.25	(24,193.25)

TABLE C - TAX LEVY REVENUES

	County Levy	Abatements / Adjustments	Adjusted Levy	Current Received	Year to Date Received	Inception to Date Received	Balance to be Collected	BCW/MO Levy
2014 Tax Levy	895,000.00		895,000.00	0.00	466,580.50	466,580.50	428,419.50	895,000.00
2013 Tax Levy	986,000.00		986,000.00	0.00	905.50	977,243.41	8,756.59	986,000.00
2012 Tax Levy	762,010.00		762,010.00	0.00	0.00	756,623.34	5,386.66	762,010.00
2011 Tax Levy	863,268.83	(2,871.91)	860,396.92	0.00	0.00	854,306.79	6,090.13	862,400.00
2010 Tax Levy	935,298.91	(4,927.05)	930,371.86	0.00	0.00	926,271.81	4,100.05	935,000.00
2009 Tax Levy	800,841.30	(8,054.68)	792,786.62	0.00	0.00	792,822.49	(35.87)	800,000.00
2008 Tax Levy	908,128.08	(4,357.22)	903,770.86	0.00	0.00	904,112.72	(341.86)	907,250.00
				<u>0.00</u>			<u>452,375.20</u>	

OTHER PROJECTS:

	Approved Budget	Current Expenses / (Revenue)	2014 YTD Expenses / (Revenue)	INCEPTION To Date Expenses / (Revenue)	Remaining Budget
TMDL Studies					
TMDL Studies	135,000.00	0.00	0.00	107,765.15	27,234.85
Sweeney TMDL	119,000.00	0.00	0.00	212,222.86	
Less: MPCA Grant Revenue		0.00	0.00	(163,870.64)	70,647.78
TOTAL TMDL Studies	<u>254,000.00</u>	<u>0.00</u>	<u>0.00</u>	<u>156,117.37</u>	<u>97,882.63</u>
Annual Flood Control Projects:					
Flood Control Emergency Maintenance	500,000.00	0.00	0.00	0.00	500,000.00
Flood Control Long-Term Maintenance	598,373.00	0.00	7,712.15	26,195.48	572,177.52
Sweeney Lake Outlet (2012 FC-1)	250,000.00	0.00	0.00	179,742.18	70,257.82
Annual Water Quality					
Channel Maintenance Fund	275,000.00	0.00	0.00	59,718.10	215,281.90
Total Other Projects	<u>1,877,373.00</u>	<u>0.00</u>	<u>7,712.15</u>	<u>421,773.13</u>	<u>1,455,599.87</u>

Cash Balance 09/09/14	1,212,193.22
Add:	
Transfer from GF	0.00
MPCA Grant-Sweeney Lk	0.00
Less:	
Current (Expenses)/Revenue	0.00
Ending Cash Balance 10/06/14	<u><u>1,212,193.22</u></u>
Additional Capital Needed	<u><u>(243,407)</u></u>

Bassett Creek Construction Project Details

Proposed & Future CIP Projects (to be Levied)				
Total Proposed & Future CIP Projects (to be Levied)	2015 Main Stem - 10th Ave to Duluth	2016 Bryn Mawr Meadows	2016 Honeywell Pond Expansion (BC-4)	2016 Northwood Lake Pond (NL-1)
1,358.75 14,426.80 15,785.55	1,358.75 9,144.00 10,502.75	5,282.80	5,249.45	3,158.25
(15,785.55)	(10,502.75)	(5,282.80)	(5,249.45)	(3,158.25)

Total Proposed & Future CIP Projects (to be Levied)	2015	2016	2016	2016
	Main Stem - 10th Ave to Duluth	Bryn Mawr Meadows	Honeywell Pond Expansion (BC- 4)	Northwood Lake Pond (NL- 1)
23,685.80 507.45	10,254.00 248.75	5,282.80	5,140.00 109.45	3,009.00 149.25
15,785.55	10,502.75	5,282.80	5,249.45	3,158.25

Total Proposed & Future CIP Projects (to be Levied)	2015	2016	2016	2016
	Main Stem - 10th Ave to Duluth	Bryn Mawr Meadows	Honeywell Pond Expansion (BC- 4)	Northwood Lake Pond (NL- 1)

Bassett Creek Construction Project Details

Other Projects							
Total					2012		Totals - All Projects
Other Projects	TMDL Studies	Sweeney Lake TMDL	Flood Control Emergency Maintenance	Flood Control Long-Term Maintenance	Sweeney Lake Outlet (FC-1)	Channel Maintenance	
Original Budget	1,647,373.00	105,000.00	119,000.00	500,000.00	748,373.00	175,000.00	6,439,773.00
Added to Budget	163,870.64		163,870.64		(250,000.00)	250,000.00	22,500.00
	230,000.00	30,000.00		100,000.00		100,000.00	163,870.64
							230,000.00
Expenditures:							
Feb 2004 - Jan 2005	6,949.19						637.50
Feb 2005 - Jan 2006				3,954.44		2,994.75	6,949.19
Feb 2006 - Jan 2007	10,249.09	637.20		9,611.89			10,249.09
Feb 2007 - Jan 2008	113,141.44	23,486.95	89,654.49				113,141.44
Feb 2008 - Jan 2009	117,455.33	31,590.12	47,041.86			38,823.35	138,409.58
Feb 2009 - Jan 2010	76,184.64	31,868.63	44,316.01				85,504.59
Feb 2010 - Jan 2011	45,375.25	15,005.25	25,920.00		4,450.00		116,298.22
Feb 2011 - Jan 2012	12,656.65	168.00	5,290.50		7,198.15		989,942.64
Feb 2012 - Jan 2013	21,094.00	3,194.00				17,900.00	174,268.66
Feb 2013 - Jan 2014	174,826.03	1,815.00		4,917.00	168,094.03		994,512.44
Feb 2014 - Jan 2015	7,712.15			7,712.15			58,107.25
Total Expenditures:	585,643.77	107,765.15	212,222.86	26,195.48	179,742.18	59,718.10	2,688,020.60
Project Balance	1,455,599.87	27,234.85	70,647.78	500,000.00	572,177.52	70,257.82	4,168,123.04

Total					2012		Totals - All Projects
Other Projects	TMDL Studies	Sweeney Lake TMDL	Flood Control Emergency Maintenance	Flood Control Long-Term Maintenance	Sweeney Lake Outlet (FC-1)	Channel Maintenance	
Project Totals By Vendor							
Barr Engineering	239,955.59	104,888.70	94,948.17	22,108.82	18,009.90		628,700.49
Kennedy & Graven	5,977.19	1,164.30	2,902.59	94.40	1,461.15	354.75	20,278.69
City of Golden Valley	180,811.13				160,271.13	20,540.00	872,614.99
City of Minneapolis							30,718.11
City of Plymouth	38,823.35					38,823.35	949,860.21
City of Crystal							
Blue Water Science							3,900.00
S E H	101,598.10		101,598.10				101,598.10
Misc	18,478.41	1,712.15	12,774.00	3,992.26			18,478.41
2.5% Admin Transfer							70,279.30
Total Expenditures	585,643.77	107,765.15	212,222.86	26,195.48	179,742.18	59,718.10	2,696,428.30

Total					2012		Totals - All Projects
Other Projects	TMDL Studies	Sweeney Lake TMDL	Flood Control Emergency Maintenance	Flood Control Long-Term Maintenance	Sweeney Lake Outlet (FC-1)	Channel Maintenance	
Levy/Grant Details							
2009/2010 Levy	163,870.64		163,870.64				902,462
2010/2011 Levy	60,000.00	10,000		25,000		25,000	220,700
2011/2012 Levy	60,000.00	10,000		25,000		25,000	822,010
2012/2013 Levy	60,000.00	10,000		25,000		25,000	1,046,000
2013/2014 Levy	50,000.00			25,000		25,000	945,000
Construction Fund Balance							881,228
BWSR Grant- BCWMO							504,750
Total Levy/Grants	393,870.64	30,000	163,870.64	100,000		100,000	5,322,150

BWSR Grants Received



Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 4D – Markay Ridge Streambank Stabilization – Golden Valley
BCWMC October 16, 2014 Meeting Agenda
Date: October 8, 2014
Project: 23270051 2014 2023

4D Markay Ridge Streambank Stabilization: Golden Valley

Summary:

Proposed Work: Repair of an eroded bank of Bassett Creek

Basis for Commission Review: Work in the floodplain

Change in Impervious Surface: 0 square feet

Recommendation: Conditional Approval

General Background & Comments

The proposed streambank restoration is located at 4840 and 4820 Markay Ridge in Golden Valley (two single-family residential lots). The proposed streambank restoration includes placement of rock boulders and vegetated reinforced soil slope (VRSS) against the bank to deter further erosion. Scour areas adjacent to the rock boulders will be filled with riprap. Approximately 5,000 square feet will be graded as part of this project and there will not be a change in impervious surface. The site is in the Bassett Creek Main Stem watershed.

Since the project will result in more than 200 cubic yards of cut or fill, the proposed project must meet the BCWMC erosion control requirements.

Floodplain

The project is located within the Bassett Creek floodplain (approximate elevation at site is 840.3 ft.). The applicant provided the current version of the Bassett Creek XP-SWMM model; a model representing the current, eroded condition; and a model representing the proposed, restored condition. The XP-SWMM modeling indicates that the proposed work will not result in an increase in flood levels or change in timing of the peak flood elevation for the 100-year event.

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 4D – Markay Ridge Streambank Stabilization – Golden Valley
Date: October 8, 2014
Page: 2
Project: 23270051 2014 2023

Wetlands

N.A.

Stormwater Management

N.A.

Water Quality Management

N.A.

Erosion and Sediment Control

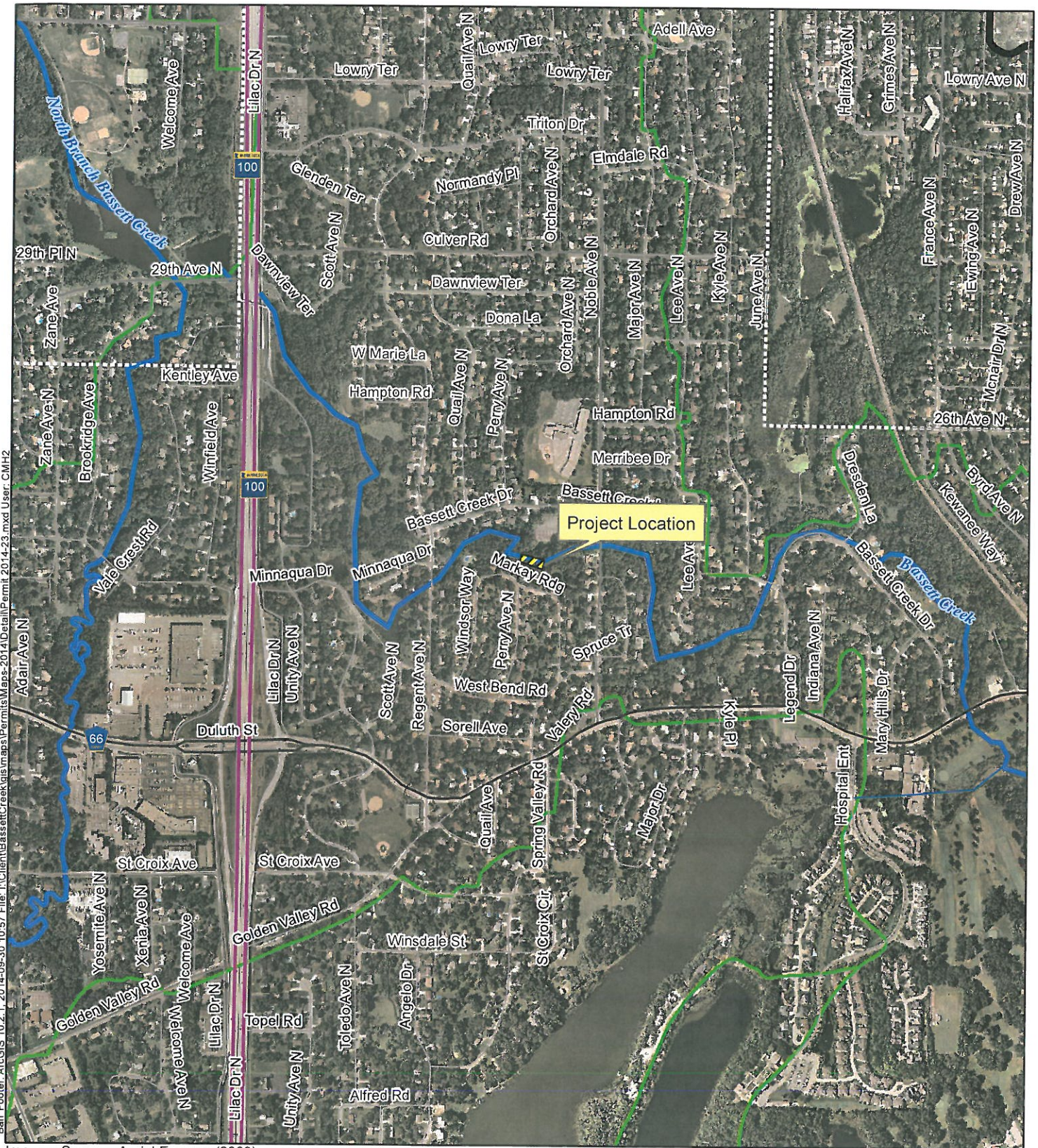
Temporary erosion control features include a floating silt curtain within Bassett Creek and a rock construction entrance.

Recommendation

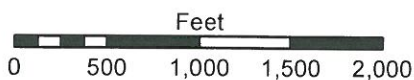
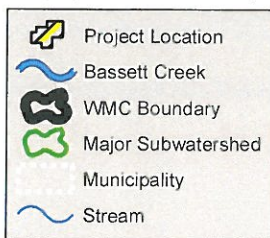
Conditional approval with the following comments to be implemented during project installation:

- Sheet 5.0 of the plan set notes that scour holes adjacent to rock boulders be filled with riprap. It is understood that the intent of this riprap fill is to prevent undermining of the rock wall and make construction of the base of the rock wall easier. It is also understood that the general pool-riffle pattern of the thalweg profile will be maintained and the project engineer will work with the contractor to ensure over-filling of scour holes does not occur, to preserve the natural habitat and energy dissipation that occurs in deep pools.

Barr Footer: ArcGIS 10.2.1, 2014-09-30 10:57 File: I:\Client\BassettCreek\maps\Permits\Map2014\Detail\Permit 2014-23.mxd User: CMH2



Imagery Source: Aerial Express (2009)



LOCATION MAP
APPLICATION 2014-23
Markay Ridge Streambank Stabilization
Golden Valley, MN

AGREEMENT FOR CHANNEL MAINTENANCE – 2014
CITY OF GOLDEN VALLEY

This Agreement is made this ____ day of _____, 2014, by and between the Bassett Creek Watershed Management Commission, a Minnesota joint powers organization (“Commission”) and the City of Golden Valley, Minnesota, a Minnesota municipal corporation (“City”);

WITNESSETH:

WHEREAS, the Commission has established a program to work in cooperation with member cities to fund channel maintenance projects; and

WHEREAS, the City has applied to the Commission for funds for a channel maintenance project in the City, a description of which is attached as Attachment One, which is made a part of this Agreement (the “Project”); and

WHEREAS, the Commission is willing to provide funding for the City’s Project in accordance with the terms and conditions hereinafter set forth.

NOW THEREFORE, on the basis of the premises and the mutual covenants hereinafter set forth, the parties hereto agree as follows:

1. The City will undertake the work of the Project as described in Attachment One. The City may request a change in the Project, which may be authorized, in writing, by the Commission’s Engineer.
2. The plans for the Project shall be reviewed by the Commission’s Engineer, who may approve or require modifications to the Plans. Project design, construction and maintenance will conform to all conditions of approval imposed by the Commission.

3. The City shall require that engineers, architects and contractors for the work of each part of the Project have liability insurance in the amount of current statutory limits specified in Minnesota Statutes, Chapter 466, and that the Commission and the Commission's Engineer are named as additional insureds on such policies. Before commencing construction of the Project, the City shall provide to the Commission a Certificate of Insurance demonstrating compliance with this requirement. The Certificate shall provide that the insurance may not be cancelled without giving the certificate holder the same notice of cancellation as is given to the policyholder.
4. The City shall undertake, or cause to be undertaken, the Project in accordance with the approved plans. Contracts will be awarded by the City in accordance with all applicable public bidding and contracting requirements.
5. The City shall be responsible for securing, or causing to be secured, all necessary permits for the work of the Project.
6. Upon completion of the work of the Project, the City shall secure record drawings, with a certification by the design engineer or architect that the work was completed according to record drawings. A copy of the certification shall be forwarded to the Commission's Engineer.
7. The City will submit invoices to the Commission, no more frequently than monthly, for partial reimbursement for the work of the Project. Reimbursable expenses include out-of-pocket costs incurred for construction, and costs of design, engineering, and contract administration. Reimbursement will be made subject to the following limitations:
 - a) Total reimbursement for the work of the Project will not exceed \$75,000, and no reimbursement will be made for costs paid to the City by other parties.

- b) Reimbursement will be made from that part of the Commission's Creek and Streambank Trunk System Maintenance, Repair and Sediment Removal Fund (the "Channel Maintenance Fund") allocated to channel maintenance in the City. If the cost of the Project exceeds \$75,000, the City may apply to the Commission for additional reimbursement from funds allocated to the City in the Channel Maintenance Fund.
-
- 8. Claims by the City for reimbursement shall be accompanied by such proof of expenses as may reasonably be requested by the Commission, and the books and records of the City shall be available for inspection by the Commission upon reasonable notice during normal business hours. If the City will seek reimbursement for design, engineering and contract administration by City staff, it will maintain and provide to the Commission detailed time records showing daily records of time spent, description of activity, staff personnel involved and rate of total compensation. Hourly rates charged will include pro-rated salary and fringe benefits in accordance with the schedule of rates attached to this Agreement as Attachment Two, which rates are subject to annual adjustment commensurate with changes in City costs of salary and benefits.
 - 9. The Commission shall reimburse the City for eligible expenses in accordance with this Agreement within 45 days of receipt of an invoice therefor.
 - 10. This Agreement will terminate on the third anniversary of the date of this Agreement unless extended by mutual agreement of the City and the Commission. The Commission will have no obligation to reimburse claims not submitted prior to the termination date.
 - 11. The parties agree that the Commission's participation in the Project is limited to the payment of channel maintenance grant funds in accordance with this Agreement. This Agreement does not make the Commission a partner, agent or co-venturer in the City's Project and the Commission will incur no responsibility or liability for the work of the City's Project.

BASSETT CREEK WATER
MANAGEMENT COMMISSION

By: _____
Chair

And by: _____
Secretary

CITY OF GOLDEN VALLEY

By: _____
Mayor

And by: _____
Manager



Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 4F – Plymouth City Flats - Plymouth
BCWMC October 16, 2014 Meeting Agenda
Date: October 8, 2014
Project: 23270051 2014 2024

4F Plymouth City Flats: Plymouth

Summary:

Proposed Work: Construction of an apartment complex

Basis for Commission Review: Work in the floodplain

Impervious Surface Area: 1.9 acres

Recommendation: Conditional Approval

General Background & Comments

The proposed apartment complex is located at the southwest corner of Highway 55 and Highway 169 in Plymouth. The proposed project includes constructing an apartment building with underground and surface parking and associated utility work and landscaping. Some development work was already done on the site as part of a project that was never completed. Approximately 4.1 acres will be graded on the 4.3 acre parcel as part of this project. The project will result in a 1.9-acre increase in impervious surface from the native site. This amount includes an approximately 1-acre increase in impervious surface from the partially completed project. The site is in the Bassett Creek Main Stem Subwatershed.

Since the area to be graded is greater than 10,000 square feet, the proposed project must meet the BCWMC erosion control requirements. The project must meet the BCWMC's Level 1 Standards.

Floodplain

The project is located within the Bassett Creek floodplain (elev. 888.5). The project will result in 1,900 cubic feet (0.044 acre-feet) of fill within the floodplain. The project will provide 1,900 cubic feet (0.044 acre-feet) of compensatory storage on the site, immediately adjacent to the floodplain.

Wetlands

As part of this project, a wetland restoration will be completed in accordance with City of Plymouth Resolution #2004-241. Plymouth is the LGU for the Wetland Conservation Act.

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 4F – Plymouth City Flats - Plymouth
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Stormwater Management

Under existing conditions, the developable area drains to an existing small water quality pond along the south side of the property. The water quality pond discharges to a lowland area and ultimately to Bassett Creek. The remainder of the site is an undeveloped lowland area that drains directly to Bassett Creek. Under proposed conditions, roof runoff from the building will be routed to storage tanks to be used as irrigation for the site landscaping. A portion of the parking area will be routed to an infiltration basin. The remaining parking lot areas and overflow from the storage tanks and infiltration basin will be routed to a water quality pond at the south side of the property. The existing water quality pond will be re-graded to meet water quality requirements based on the new development plans and to allow for reconfiguration of the site. The lowland area will be re-graded and restored as a wetland mitigation area as part of the project.

Water Quality Management

There is currently a water quality pond on the site that was constructed as part of the previous development. Proposed permanent best management practices include a water quality pond, an infiltration basin, and water reuse for irrigation. The re-graded water quality pond is adequately sized to meet BCWMC requirements. The project will provide additional water quality benefits through the infiltration basin and the approximately 11,000-cubic-foot storage tank for stormwater to be reused in site irrigation.

Erosion and Sediment Control

Proposed temporary erosion control features include silt fence and a rock construction entrance. The water quality pond will be used as a temporary sedimentation basin during construction and any deposited material will be removed after site stabilization and before the completion of construction.

Recommendation

Conditional approval based on the following comments:

1. The following erosion control comments must be added to the plans:
 - Silt fences shall be supported by sturdy metal or wooden posts at intervals of 4 feet or less.
 - Silt fence should be installed to prevent construction sediment from entering the wetland without obstructing outlet flow from the water quality pond.
 - Either a silt fence or construction entrance should be shown at the southern driveway to the site so that no sediment leaves the site through the driveway.

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 4F – Plymouth City Flats - Plymouth
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- At the north entrance to the site, the silt fence should connect to the construction entrance such that sediment cannot leave the site around the construction entrance.
 - The impervious areas listed on the SWPPP do not match the impervious areas listed in the Stormwater Management Plan narrative. Applicant should review and revise as necessary.
 - Soils tracked from the site by motor vehicles must be cleaned daily (or more frequently, as necessary) from paved roadway surfaces throughout the duration of construction.
 - Temporary vegetative cover must be spread at 1.5 times the usual rate per acre. If temporary cover is to remain in place beyond the present growing season, two-thirds of the seed mix shall be composed of perennial grasses.
 - Temporary or permanent mulch must be uniformly applied by mechanical or hydraulic means and stabilized by disc-anchoring or use of hydraulic soil stabilizers.
2. The project narrative indicates type C soils, based on previous site development investigations. The HydroCAD modeling uses an infiltration rate of 0.25 inches/hour. To be in conformance with BCWMC standards, an infiltration rate of 0.20 inches/hour must be used for type C soils unless documentation is provided that indicates the soils are capable of a higher infiltration rate.
 3. Applicant should review soils reports to confirm that groundwater is at least 3 feet below the bottom of the infiltration basin to allow the basin to function hydraulically and to allow trapping and treatment of pollutants by the soil.
 4. Applicant should consider the infiltration basin bottom elevation relative to the finished elevation of the garage to avoid potential seepage problems.
 5. If the design infiltration rate is modified to a lower infiltration rate, the basin sizing should be adjusted to maintain a 48-hour drawdown time for the infiltration basin.
 6. The applicant should evaluate options to minimize short-circuiting in the water quality pond. The northern inlet is very close to the outlet. An option to enhance the treatment potential of the water quality pond, especially due to the potential short-circuiting, is to install an extended detention outlet structure that would provide a longer detention time for runoff from more frequent storm events.
 7. Pretreatment for the inlets to the water quality pond should be considered to extend the life of the water quality pond.
 8. The pipe discharging from the water quality pond to the wetland should be extended such that the pipe discharges at or below the normal water level of the wetland. As an alternative, the applicant must ensure adequate erosion protection is provided to prevent channelization in the wetland.

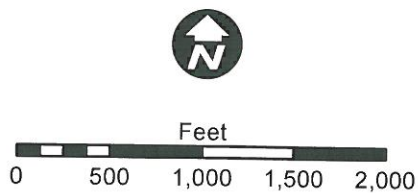
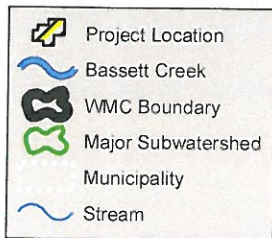
To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 4F – Plymouth City Flats - Plymouth
Date: October 8, 2014
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9. A maintenance agreement for the irrigation water storage system, infiltration basin, and water quality pond should be established between the applicant and the City of Plymouth.
10. Revised plans must be submitted to the BCWMC Engineer for administrative review and approval.

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Imagery Source: Aerial Express (2009)



LOCATION MAP
APPLICATION 2014-24
Plymouth City Flats
Plymouth, MN

BASSETT CREEK WATERSHED MANAGEMENT COMMISSION

RESOLUTION NO. _____

RESOLUTION ORDERING 2015 IMPROVEMENT,
DESIGNATING MEMBER RESPONSIBLE FOR CONSTRUCTION AND
APPROVING AGREEMENT FOR CONSTRUCTION OF IMPROVEMENT

WHEREAS, on September 16, 2004, the Commission adopted the *Bassett Creek Watershed Management Commission, Water Management Plan, July 2004* (the "Plan"); and

WHEREAS, the Plan includes a Capital Improvement Program ("CIP") listing capital projects in Table 12-2 of the Plan; and

WHEREAS, the CIP, as amended, includes the following capital project for the year 2015:

Restoration of the Main Stem of Bassett Creek from 10th Avenue to Duluth Street in the City of Golden Valley (CR2015) ("2015 Project"); and

WHEREAS, the Plan specifies a county tax levy under Minn. Stat., § 103B.251 as the source of funding for the 2015 Project; and

WHEREAS, on October 16, 2014, following mailed notice in accordance with the Commission's Joint Power Agreement, the Commission conducted a public hearing on the 2015 Project.

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

1. The 2015 Project will be conducive to the public health and promote the general welfare and is in compliance with Minnesota Statutes, Sections 103B.205 to 103B.255 (the "Act") and with the Plan as adopted and amended in accordance with the Act. The 2015 Project is hereby ordered.
2. The estimated cost of the 2015 Project is One Million Five Hundred Three Thousand Dollars (\$1,503,000). Of this amount, One Million Dollars (\$1,000,000) will be paid from funds received from a county tax levy pursuant to Minnesota Statutes, Section 103B.251, levied in 2014 for collection in 2015, and the remainder will be paid from the Commission's Capital Improvement Program Closed Project Account or other sources.
3. The Commission has received, accepted and approved the feasibility report for the 2015 Project.

4. The costs of the 2015 Project will be paid by the Commission up to the amounts specified in paragraph 2 above from the Capital Improvement Program Closed Project Account and proceeds received from Hennepin County pursuant to Minnesota Statutes, Section 103B.251. Additional costs may be paid by the city constructing the Projects, but no costs will be charged to other members of the Commission.
5. The City of Golden Valley is designated as the member responsible for contracting for the construction of the 2015 Project, and the engineer designated for preparation of plans and specifications is the Golden Valley City Engineer, or other engineers selected and retained by the City of Golden Valley. Contracts for construction shall be let in accordance with the requirements of law applicable to the City of Golden Valley. The Cooperative Agreement with the City of Golden Valley for the construction of the 2015 Project is approved, and the Chair and Secretary are authorized to execute the agreement on behalf of the Commission.

Adopted by the Board of Commission of the Bassett Creek Watershed Management Commission the 16th day of October, 2014.

Chair

ATTEST:

Secretary



Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 6C. Review Draft Feasibility Study for 2016 Honeywell Pond Enhancement/Improvement Project (CIP BC-4), Golden Valley BCWMC October 16, 2014 Meeting Agenda
Date: October 8, 2014
Project: 23270051 2014 632

6C. Review Draft Feasibility Study for 2016 Honeywell Pond Enhancement/Improvement Project (CIP BC-4), Golden Valley

Summary:

Proposed Work: 2016 Honeywell Pond Enhancement/Improvement Project (CIP BC-4)

Basis for Commission Review: Draft Feasibility Study Review

Recommendations:

- 1) Consider approval of the draft feasibility study, with recommended changes, and provide direction to the City of Golden Valley regarding which alternatives should be implemented.

The 2016 Honeywell Pond Enhancement/Improvement Project (CIP BC-4) will be funded by the BCWMC's ad valorem levy (via Hennepin County). The City of Golden Valley provided the draft feasibility study to the BCWMC Engineer for review, as directed by the Commission at their February 20, 2014 meeting. The following is a summary of the draft feasibility study and the Commission Engineer's recommended revisions for the draft feasibility study.

Feasibility Study Summary

The City of Golden Valley's draft *Feasibility Report for the Honeywell Pond Enhancement/Improvement Project* (WSB, October 7, 2014) examines the feasibility of several enhancement/improvement projects in the Honeywell Pond and nearby areas that will provide treatment of runoff from the watershed. Additional improvement alternatives were evaluated to reduce runoff rate, reduce runoff volume, and provide habitat enhancements in the area. The improvement options selected for implementation would be constructed as part of the Douglas Drive Improvement Project, scheduled for construction in 2016.

The draft feasibility report identifies three improvement options for the Honeywell Pond and nearby areas, including:

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 6C. Review Draft Feasibility Study for 2016 Honeywell Pond Enhancement/Improvement Project (CIP BC-4), Golden Valley
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- Option 1 – Expansion of Honeywell Pond, construction of a low flow diversion system from Douglas Drive, and establishment of a buffer/habitat around the perimeter of the pond.
- Option 2a – Construction of a lift station and force main to Sandburg Learning Center Ballfields for irrigation, with a stub for irrigation at the Honeywell site and a force main to the south infiltration system (to be constructed as part of the Douglas Drive Project).
- Option 2b – Construction of a lift station and force main to Sandburg Learning Center Ballfields for irrigation and a force main to the south infiltration system (to be constructed as part of the Douglas Drive Project). Assumes no irrigation at the Honeywell site.
- Option 3 – Combination of Option 1 and Option 2a

The table below is an excerpt from Table 1.1 in the feasibility study:

Option	Estimated Capital Cost	Estimated lbs Phosphorus Removed per Year	Annual Cost/lb removed
Option 1 – Honeywell Pond expansion, low flow diversion from Douglas Drive, and buffer/habitat establishment around pond perimeter	\$880,000	15.3	\$3,148
Option 2a - Construction of a lift station and force main to Sandburg Learning Center Ballfields for irrigation, with a stub for irrigation at the Honeywell site and a force main to the south infiltration system	\$322,000	13.5-27	\$800 – \$1,600
Option 2b - Construction of a lift station and force main to Sandburg Learning Center Ballfields for irrigation and a force main to the south infiltration system (to be constructed as part of the Douglas Drive Project)	\$322,000	7.8 – 15.6	\$1,400 - \$2,750
Option 3 - Combination of Option 1 and Option 2a	\$1,202,000	28.8 – 42.3	\$1,650 - \$2,450

The attached sheet from the City of Golden Valley (not included in the feasibility study) provides a summary of the project costs, funding, and the city's recommendations. As noted on the sheet, the city can contribute an estimated \$450,000 towards the project. This, combined with the estimated \$285,000 of BCWMC funding, results in an estimated \$735,000 of funding available for this project. The city recommends implementation of Option 1 as the first priority, followed by implementation of Option 2a/2b, if additional BCWMC funding is available.

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 6C. Review Draft Feasibility Study for 2016 Honeywell Pond Enhancement/Improvement Project (CIP BC-4), Golden Valley
Date: October 8, 2014
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The feasibility report notes that the project may require the following permits/approvals:

- 1) Clean Water Act Section 404 permit from the U.S. Army Corps of Engineers, and Section 401 certification from the Minnesota Pollution Control Agency (MPCA)
- 2) Compliance with the Minnesota Wetland Conservation Act
- 3) MPCA National Pollutant Discharge Elimination System (NPDES) Construction Stormwater Permit
- 4) BCWMC approval
- 5) City of Golden Valley Stormwater Permit
- 6) City of Golden Valley Right-Of-Way Permit
- 7) MDNR Water Appropriations Permit

The feasibility study also notes that the project will also follow the MPCA's guidance document for managing dredged materials, if applicable.

Recommendations

The Commission Engineer recommends the following revisions to the draft *Feasibility Report for Honeywell Pond Enhancement/Improvement Project* (dated 10/7/2014):

1. During project design (should Option 1 be selected), we recommend evaluating the use of a weir in the low flow diversion structure to ensure that low flows from the Douglas Drive system will be directed to Honeywell Pond (and potentially improve the phosphorus removal numbers) and prevent backflow from Honeywell Pond during large storm events (10 and 100 year events).
2. Revise the label on Figure 4 to reflect the irrigation of the Sandburg Learning Center Ballfields as outlined in Option 2. The label currently reflects the subsurface infiltration system in the ballfields that is no longer an alternative in the study.
3. Remove reference to "pond construction" in Table 4.4.
4. Correct costs in text to match the costs given in the tables.

The revised (final) feasibility study must be submitted to the Commission Engineer for review and approval by the Commission.

PROJECT COSTS AND FUNDING SUMMARY
HONEYWELL POND ENHANCEMENT/IMPROVEMENT PROJECT

Pond / Water Quality Funding

City Storm Sewer / Water Quality Funding	\$900,000.00
<i>less Funds Needed for Douglas Dr Storm Sewer Work</i>	<i>-\$450,000.00</i>
Remaining City Storm Sewer / Water Quality Funding	\$450,000.00
Available for Honeywell Pond Project	
Estimated BCWMC Funding (From 2016-2020 CIP)	\$285,000.00
Total Estimated Funding for Honeywell Pond Project	\$735,000.00

Summary of Recommended Options and Costs and Running Total of Costs

		(Includes Indirect & Contingency)	
Number	Name	Total Cost	Running Total
<i>Recommended Options for Implementation</i>¹		\$880,000.00	\$880,000.00
Option 1	Low Flow Trunk Diversion from Douglas Drive		
	Expand Pond Footprint / Depth		
	Enhance Habitat / Perimeter		
<i>Recommended Additional Options</i>²		\$322,000.00	\$1,202,000.00
Option 2	Construct Lift Station and Forcemain to Sandburg Site for Irrigation		
	Construct Forcemain to Irrigate Honeywell		
	Construct Forcemain South to Douglas Infiltration Area		
<i>Option 3: Combine Options 1 & 2</i>		\$1,202,000.00	\$1,202,000.00

¹ Funding from City and BCWMC should be available for Option 1

² If additional BCWMC funding is available, the City recommends adding Option 2

Notes:

** The Douglas Drive Reconstruction Project includes stormwater improvements independent of the proposed Honeywell Pond Project that meet NPDES, BCWMC and all other water quality requirements.



COOPERATIVE AGREEMENT

This Agreement is made as of the 16th day of October, 2014, by and between the Bassett Creek Watershed Management Commission, a joint powers watershed management organization (hereinafter the "Commission"), and the City of Golden Valley, a Minnesota municipal corporation (hereinafter the "City").

WITNESSETH:

WHEREAS, the Commission adopted the Bassett Creek Watershed Management Plan on September 16, 2004 (the "Plan"), a watershed management plan within the meaning of Minn. Stat., § 103B.231; and

WHEREAS, the Plan, as amended, includes a capital improvement program ("CIP") that lists a number of water quality project capital improvements; and

WHEREAS, the water quality projects identified in the CIP include a capital improvement project described as Restoration of the Main Stem of Bassett Creek from 10th Avenue to Duluth Street in the City of Golden Valley, as more fully described in the feasibility report for the Project prepared by WSB & Associates, Inc., entitled "2015 Bassett Creek Main Stem Restoration Project" dated June 10, 2014, which is attached and made a part hereof (the "Project"); and

WHEREAS, the cost estimate for the Project is between \$1,300,000 and \$1,600,000; and

WHEREAS, the Plan specifies that the Project will be funded by a County tax levy under Minn. Stat., § 103B.251; and

WHEREAS, on October 16, 2014, the Commission adopted a resolution ordering the Project and directing that it be constructed by the City; and

WHEREAS, project costs were certified to Hennepin County, which will levy taxes throughout the watershed for the Project costs in 2014 for collection and settlement in 2015; and

WHEREAS, the City is willing to construct the Project on the terms and conditions hereinafter set forth.

NOW, THEREFORE, ON THE BASIS OF THE PREMISES AND MUTUAL COVENANTS HEREINAFTER SET FORTH, THE PARTIES AGREE AS FOLLOWS:

1. The Project will consist of the Restoration of the Main Stem of Bassett Creek from 10th Avenue to Duluth Street, as described in the Feasibility Report for the Project.
2. The City will design the Project and prepare plans and specifications for construction of the Project. 90% plans and specifications, and any changes to such plans and

specifications, shall be submitted to the Commission for approval. Minor change orders that do not materially change either the effectiveness of the Project to meet its intended purposes or the environmental impacts of the Project may be approved by the City

3. The City will advertise for bids and award contracts in accordance with the requirements of law. The City will award the contract and supervise and administer the construction of the Project to assure that it is completed in accordance with plans and specifications. The City will require the contractor to provide all payment and performance bonds required by law. The City will require that the Commission be named as additional insured on all liability policies required by the City of the contractor and be given the same notification of cancellation or non-renewal as is given to the City. The City will require that the contractor defend, indemnify, protect and hold harmless the Commission and the City, their agents, officers, and employees, from all claims or actions arising from negligent acts, errors or omissions of the contractor. The City will supervise the work of the contractor. However, the Commission may observe and review the work of the Project until it is completed. The City will display a sign at the construction site stating "Paid for by the Taxpayers of the Bassett Creek Watershed".
4. The City will pay the contractor and all other expenses related to the construction of the Project and keep and maintain complete records of such costs incurred.
5. The Commission will reimburse Five Hundred Three Thousand Dollars (\$503,000) of Project expenses from its Capital Improvement Program Closed Project Account. The Commission will use its best efforts to secure payment from the County in accordance with Minn. Stat., § 103B.251 in the amount of One Million Dollars (\$1,000,000) by tax levy in 2014 for collection in 2015. The total reimbursement will not exceed One Million Five Hundred Three Thousand Dollars (\$1,503,000), less Commission expenses.

Out-of-pocket costs related to the Project, incurred and paid by the Commission including, but not limited to, feasibility studies, publication of notices, securing County tax levy, preparation of contracts, review of proposed contract documents, administration of this contract and a 2.5% administrative charge shall be repaid from the amount specified above from the Commission's Capital Improvement Program Closed Project Account and from funds received in the tax settlement from Hennepin County. All such funds in excess of such expenses are available for reimbursement to the City for costs incurred by the City in the design and construction of the Project. Reimbursement to the City will be made as soon as funds are available provided a request for payment has been received from the City providing such detailed information as may be requested by the Commission to substantiate costs and expenses.

6. Reimbursement to the City will not exceed the amount specified above from the Capital Improvement Program Closed Project Account and the amount received

from the County for the Project less any amounts retained by the Commission for Commission expenses. Reimbursement will not be increased by grants or other revenues received by the Commission for the Project. Reimbursement will not exceed the costs and expenses incurred by the City for the Project, less any amounts the City receives for the Project as grants from other sources. All costs of the Project incurred by the City in excess of such reimbursement shall be borne by the City or secured by the City from other sources.

7. All City books, records, documents, and accounting procedures related to the Project are subject to examination by the Commission.
8. The City will perform all necessary investigations of site contamination and secure all necessary local, state, or federal permits required for the construction of the Project and will not proceed with the Project until any required environmental review and remediation of site contamination is completed or a plan for remediation is approved by appropriate regulatory agencies. Upon completion of the Project, the City will assume responsibility for its maintenance.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized officers on behalf of the parties as of the day and date first above written.

BASSETT CREEK WATERSHED
MANAGEMENT COMMISSION

By: _____
Its Chair

And by: _____
Its Secretary

CITY OF GOLDEN VALLEY

By: _____
Its Mayor

And by: _____
Its Manager

Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 6G. Consider Moving Forward with Twin Lake Alum Treatment
BCWMC September 18, 2014 Commission Meeting
Date: September 10, 2014
Project: 23270051 2014 628

6G. Consider Moving Forward with Twin Lake Alum Treatment

Recommendations:

1. Develop a public outreach plan that can be used to communicate with homeowners and the public about an in-lake alum treatment of Twin Lake.
2. Enter into a cooperative agreement with the City of Golden Valley to proceed with the first phase of an in-lake alum treatment of Twin Lake, upon completion of the following tasks:
 - Determine alum dosage plan, including modeling of pH conditions and mapping of application area(s) and contractor staging area
 - Develop Engineer's estimate of costs
 - Submit background documentation and notify MPCA and DNR of intent to proceed with the alum application; respond to questions/comments
 - Develop contract documents specifying the dose and areal extent of the alum application, as well as the terms of payment and bid quantities
 - Oversee bid solicitation, bid opening and award, as well as alum application and compliance monitoring

Background and Basis for Recommendations

Historically, the water quality of Twin Lake in Golden Valley has been excellent with high clarity and low phosphorus levels. However, following consecutive years of poor water quality during 2008 and 2009, the Commission authorized an evaluation of the cause and the development of feasible management options. (The BCWMC 2004 Watershed Management Plan includes a policy stating "the Commission will continue to identify opportunities to maintain or improve the excellent water quality in Twin Lake.") The water quality evaluation concluded that internal phosphorus loading had increased, largely due to increased water temperature and greater oxygen depletion in the bottom waters of the lake. Based on the *Feasibility*

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 6G. Consider Moving Forward with Twin Lake Alum Treatment
BCWMC September 18, 2014 Commission Meeting
Date: September 10, 2014
Page: 2

Report for Water Quality Improvements in Twin Lake (February 2013 at <http://www.bassettcreekwmo.org/Meetings/2013/2013-February/6B-TwinLakeFeasibilityStudy-Final.pdf>), the Commission's 2014 CIP projects included an in-lake alum treatment of Twin Lake. The in-lake alum application is intended to seal off the bottom sediments, which is the source of internal phosphorus loading in Twin Lake. It was recommended that half of the prescribed alum dosage should be applied in 2014 and the other half should be applied in a subsequent year to avoid adversely affecting aquatic life and to maximize the lifespan of the treatment.

Due to questions about the fish community in Twin Lake and whether or not it might impact the longevity of the alum treatment, the Commission ordered a fish survey by Blue Water Science and also requested that the DNR conduct a survey. The results of those surveys were presented in reports to the Commission in October 2013. The consultant indicated that fish communities in Twin Lake should not pose a threat to the longevity of the alum treatment.

Another factor contributing to a delay in implementing the project was the apparently improving water quality of Twin Lake, which called into question the need for an alum treatment. Results of detailed BCWMC water quality monitoring from 2014 (not including samples from 8/20 and 9/2) and the Citizen Assisted Monitoring Program (CAMP) water quality monitoring completed for Twin Lake in 2010 and 2011 show good water quality. The following table shows the mean summer water quality over the past ten years and compares it to the Minnesota Pollution Control Agency's (MPCA) water quality standard for Secchi disc transparency (SD), and total phosphorus (TP) and chlorophyll-a (Chl-a) concentrations.

	TP	Chl-a	SD
<u>Year</u>	<u>µg/L</u>	<u>µg/L</u>	<u>meters</u>
2005	21	3.1	3.7
2008	43	8.6	1.9
2009	70	25.4	1.2
2010	19	2.5	3.2
2011	13	2.3	2.8
2014 (to-date)	20	4.0	4.0
Ten-Year Average (all readings)	34	8.3	2.7
MPCA Water Quality Standards	< 40	< 14	> 1.4

The results of the summer water quality monitoring from the last ten years show that Twin Lake would not be considered an impaired water body based on the MPCA's criteria for deep lakes in this region of the state. However, the water quality observations from 2009, and 2008 to a lesser extent, indicate poor water quality and do not meet MPCA's anti-degradation rules for high quality water bodies. A detailed analysis

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 6G. Consider Moving Forward with Twin Lake Alum Treatment
BCWMC September 18, 2014 Commission Meeting
Date: September 10, 2014
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of the water quality monitoring data indicates that the poor water quality was brought on by the winter internal phosphorus load becoming fully mixed in the spring, which results in initially higher surface water phosphorus concentrations followed by increased water temperatures and potentially greater extent of oxygen depletion in the bottom waters of the lake throughout 2008 and 2009. It appears that, depending on climatic conditions, this deteriorating effect on water quality in Twin Lake could be expected to occur often enough in some years to stimulate persistent algal blooms and discourage recreational use of the lake. An in-lake alum treatment would greatly limit the source of the nutrients and ensure that water quality in Twin Lake is consistently as good as, or better than, the observations from 2005, 2010, 2011 and/or 2014.



Bassett Creek Watershed Management Commission

Next Generation Plan Steering Committee Meeting Notes

4:30 p.m. ~ Monday August 25, 2014
Golden Valley City Hall

Attendees: Committee Chair Linda Loomis; Alternate Commissioners Pat Crough and Dave Tobelmann; Engineers Karen Chandler and Greg Williams; Administrator Laura Jester

1. Call Meeting to Order

Chair Loomis called the meeting to order at 4:40 p.m.

2. Approve Meeting Notes from July 28, 2014 Plan Steering Committee Meetings

There were no changes suggested for these meeting notes. Consensus to approve as presented.

3. Review Revised Policies Revised per 8/11/14 Commission Workshop

The only policy that was recommended for a slight change was #95. Alternate Commissioner Tobelmann noted the word "cubic" should be used to describe how many "yards of cut or fill." All policies that were revised at the workshop will be noted as such at the bottom of the policy so staff and Commissioners can keep track of where they were discussed and where decisions were made.

4. Review Education and Information Policies Revised from 7/28/14 PSC Meeting

Engineer Chandler noted that much consolidation was done with these policies and details were moved into the Education and Outreach Plan (EOP) as decided at the 7/28/14 meeting. There were comments on the following policies:

#123: Administrator Jester asked to remove the phrase "practices to relay" language in the policy. Alternatively, language from the executive summary of the EOP may be used in this policy.

#128: Noted it was general but decided okay as written.

#133: Okay as written.

#144: Okay as written.

#146: There was discussion about what constitutes a citizen advisory committee (CAC) and whether or not the Commission should work towards having a standing CAC. It was noted that watershed districts MUST have a CAC, but for watershed organizations, they are optional. There was discussion about how it's difficult to get volunteers and that CAC's take staff time to coordinate. Administrator Jester noted that CAC's can be useful if there is a specific task to complete. She noted that it's sometimes difficult to even get Commissioners to committee meetings. The group talked about how cities find volunteers for different committees and commissions. Alternate Commissioner Tobelmann noted that existing groups such as Master Gardeners and Master Naturalists may be good places to look for volunteers. Ultimately, the group decided to leave the policy as written.

#150: Okay as written.

#140: Administrator Jester wondered if this policy was needed or if the policy should include ALL key messages. She wondered why it singled out just one key message. The group decided it would be okay to move the policy to the EOP and re-word, as needed.

5. Review Administration Policies Revised from 7/28/14 PSC Meeting

#166: The group discussed the need for evaluation of implementation of Commission policies by member cities but wondered about the most effective and efficient way to accomplish this evaluation. They reviewed the Rice Creek WD evaluation policy as suggested by BWSR (as an example). The group agreed some oversight of member city policy implementation was needed, but did not want to burden Commission or city staff with extra work. Administrator Jester noted that cities have two years after the watershed plan is adopted to amend their local controls. She said the Commission would be reviewing city's local water plan (LWP) to make sure they comply with the new watershed plan. Engineer Chandler noted, however, that local ordinances that enforce the revised LWPs are not reviewed by the Commission. The group wondered if local ordinances should be reviewed by the Commission and/or if cities somehow tally when and how their ordinances are being enforced. The group agreed it would be best to use data that is already being collected to evaluate local implementation of Commission policies.

The group also discussed possibly reviewing cities' MS4 annual reports or developing a simple checklist for cities to complete (perhaps each year) that indicates which Commission policies were implemented in their city. It was decided that a draft checklist should be brought to the next Commission workshop for review and then perhaps to the TAC for comment.

For now, the policy will be revised to include "annually" and the detail of how to evaluate will be included in the Implementation Section of the plan. The policy will also be revised to include "The Commission will take appropriate administrative or legal action in the event of non-compliance."

#175: Okay as written.

#180: The policy will be revised to read:

"The BCWMC requires member cities to acquire and maintain easements, ~~or~~ right-of-way, or interest in land necessary to implement and maintain ~~BCWMC projects upon order of~~ ordered by the BCWMC ~~Board of Commissioners~~ (the cost of land acquisition may be eligible for Commission reimbursement, see Table X)

#190: Okay as written.

6. Review Draft Education and Outreach Plan

Administrator Jester reported that there was an existing Education and Outreach Plan (EOP) that specifically planned for various activities from February 2011 – December 2015. However, she noted that the driving force behind the EOP and carrying out the plan was former Commissioner Hoshal. She noted that she has not been given too much direction to perform education-related activities and that the Commission primarily helps to fund other organizations' education efforts. She noted the EOP she developed for this watershed plan is not as detailed as the existing EOP in that it does not include a timeline nor budget for implementation. Alternate Commissioner Tobelmann recognized that it would be difficult to include budget and timeline details for education and outreach in a 10-year plan. He indicated that the Commission's Education Committee could use this more general EOP to annually details and budgets in timeline for the subsequent year's budget. He noted that specifics are needed at some point.

There was discussion about the format of the EOP. Engineer Williams provided a matrix format that could work. The group noted the repetition in the current draft of the EOP. Administrator Jester indicated she would revise the EOP and bring it to the next PSC meeting.

7. Discuss Process for Addressing Commission's Role in Recreation

Engineer Chandler reported that currently, the Commission has very few policies regarding recreation. Alternate Commissioner Tobelmann noted that recreation means different things to different people. The group agreed that "recreation" needed to be defined as well as the Commission's role in recreation. The also discussed how the Commission's goals and actions to improve water quality impacts recreation and that the "impairment status" of a waterbody is, in part, based on recreation. Engineer Chandler noted that previous Commission projects involving the control of invasive species (like curly leaf pondweed) were based on improving water quality, not on improving recreation. The group wondered how other watershed organizations approach recreation and how the roles of recreation could or should be divided among the Commission, cities, and park districts.

Alternate Commissioner Tobelmann recommended that a matrix be developed depicting the different aspects of recreation and the different entities that could take on different roles. He thought it would be good to include current practices and perhaps staff recommendations for future roles. The group agreed this would be a good starting point. A draft matrix will be brought to the next PSC meeting and then the discussion would go to the next Commission Workshop. Current policies regarding recreation would also be brought to the next PSC meeting.

8. Discuss Process to Develop Implementation Plan

Engineer Williams noted the Implementation Plan is a large table that includes large capital projects as well as programs and projects of the Commission. It lays out the work of the Commission over the life of the plan including timelines and budgets. Administrator Jester recommended that staff get ideas for projects to include in the Implementation Plan from both Commissioners and TAC members. The group agreed ideas could be solicited via email.

9. Discuss Plans for Next Commission Workshop

Administrator Jester indicated she was given direction at the last Commission meeting to send a Doodle Poll for dates for the next Commission Workshop. The workshop will include reviewing Education and Administration policies, a discussion of the Commission's role in recreation and a quick overview of the EOP and Implementation Plan.

10. Set Next Meeting and Adjourn

This meeting adjourned at approximately 6:40 p.m. The next meeting is scheduled for September 22nd at 4:30 p.m.



Bassett Creek Watershed Management Commission

MEMO

TO: BCWMC Commissioners
FROM: Laura Jester, Administrator
DATE: October 8, 2014

RE: 2014 Budget Review

At the August Commission meeting, staff presented the mid-year budget review. The Commission directed staff to review the budget with the Commission again at their October meeting. In general, the areas where the budget is expected to be exceeded or in surplus are very similar to what was reported in August.

The Commission's overall budget is on track and I expect to end the year with a \$7,800 budget surplus, if the Next Generation Watershed Plan line item is considered separately. The Next Generation Watershed Plan task will be approximately \$10,000 over budget in FY2014 (see Commission Engineer's memo attached). This task has a budget of \$30,000 in FY2015. It's anticipated that spending more funds this year will mean that less than the budgeted amount will be needed next year. This assessment is contingent, however, on a variety of items including the level of policy discussions, length and detail of comments from reviewers, etc.

The following table shows the expected under and over spending for each budget item. Attached is a memo from the Commission Engineer with explanations and expectations for engineering items.

RECOMMENDATION:

I recommend that the Commission continue implementing its programs and projects this fiscal year, including the development of the Watershed Management Plan. Although some budget items are expected to be exceeded, others are under budget. Overall, the budget is on track and no services or activities should be delayed or stopped.

Bassett Creek Watershed Management Commission

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FY 2014 Budget Projections (does not include Next Generation Watershed Plan)

Budget Item	2014 Budget	Total Expected Expenses	Amount Under or (Over) Budget	Notes
Engineering				
Tech Services	\$120,000	\$120,000	\$0	See Commission Engineer Memo
Plat Review	\$65,000	\$60,000	\$5,000	
Commission/TAC Meetings	\$16,000	\$18,500	(\$2,500)	
Surveys/Studies	\$20,000	\$7,500	\$12,500	
Water Quality Monitoring	\$45,000	\$65,000	(\$20,000)	
Water Quantity	\$11,000	\$13,500	(\$2,500)	
Watershed ESC Inspections	\$1,000	\$0	\$1,000	
Flood Control Proj. Inspections	\$20,000	\$20,000	\$0	
Municipal Plan Review	\$2,000	\$0	\$2,000	
Administration				
Administrator	\$60,000	\$58,000	\$2,000	Dissolution tasks and more contracts
Legal Costs	\$18,500	\$21,500	(\$3,000)	
Audit, Insurance	\$15,500	\$15,500	\$0	
Financial Mgmt	\$3,045	\$3,045	\$0	
Meet Expenses	\$3,000	\$2,000	\$1,000	
Admin. Services (Recording Secr.)	\$35,800	\$25,800	\$10,000	Administrator doing more tasks
Publications	\$2,000	\$2,300	(\$300)	
Website	\$2,000	\$500	\$1,500	
Public Comm	\$3,000	\$1,500	\$1,500	
WOMP	\$17,000	\$17,000	\$0	
Educ/Public Outreach	\$15,000	\$15,400	(\$400)	Watershed Map
Watershed Educ Partnerships	\$15,500	\$15,500	\$0	
Channel Maint Fund	\$25,000	\$25,000	\$0	
Long Term Maint Fund	\$25,000	\$25,000	\$0	
TMDL Studies	\$20,000	\$20,000	\$0	
TOTAL	\$560,345	\$552,545	\$7,800	

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Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Co.
Subject: Item 6F – Review 2014 Budget Status: Engineering Budget Review
BCWMC October 16, 2014 Meeting Agenda
Date: October 8, 2014
Project: 23270051 2014 003

6F 2014 Engineering Budget Review

Summary

At the August Commission meeting, staff presented the mid-year budget review. The Commission directed staff to review the budget with the Commission again at their October meeting. The remainder of this memo updates the information presented in the Commission Engineer's August 13, 2014 memo to the Commission.

The Commission Engineer's 2014 Engineering budget of \$185,000 and Planning budget of \$53,500 (including flood control project maintenance and replacement plan 2013 carry-over) were approved by the BCWMC at its August 15, 2013 meeting. Generally, based on the current trend, the overall Engineering budget is anticipated to be exceeded by \$4,500, depending on remaining 2014 activities. The Planning budget is anticipated to be exceeded by \$10,000. The TMDL budget and the Barr portion of the WOMP tasks are anticipated to be on-budget.

Recommendations

For discussion.

Background

Based on the BCWMC's active year—Next Generation Planning and water quality-related activities—Commission staff has been asked to perform additional works tasks that were not included in the budget. In recent years, the Commission implemented a mid-year budget review to highlight and address any budget issues and provide direction. Following are comments regarding the Commission Engineer's review of the Engineering and Planning budgets. (Note: budgets for capital improvement projects are tracked separately.)

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From: Barr Engineering Co.
Subject: Item 6F – Review 2014 Budget Status: Engineering Budget Review
Date: October 8, 2014
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Engineering tasks – summary of status:

1. Technical Services—the 2014 budget is \$120,000 and covers the day-to-day technical operations, such as preparing for the Commission and TAC meetings, performing preliminary site reviews, pre-submittal coordination with Cities and applicants, correspondence, and communications with the Commissioners, administrator, recording administrator, watershed communities, developers, agencies, and other entities, review of wetland issues, review of property floodplain and other hydraulic/hydrologic issues. Half of this budget is used for preparing for BCWMC and TAC meetings. The 2014 budget was based on preparation for 30 meetings, including 12 BCWMC meetings, six TAC meetings, and 12 Next Generation Plan Steering Committee (PSC) meetings. Through September, the Commission Engineer has attended 24 meetings, including eight BCWMC meetings, three TAC meetings and 13 PSC meetings/Commission workshops. Attendance at the meetings is included under the “Meetings” budget, however, preparation for the meetings is included under the Technical Services budget for the BCWMC and TAC meetings, or under the Planning budget for the PSC meetings/Commission workshops. Based on current Commission activities, this task is expected to come in on-budget.
2. Plat Reviews—the 2014 budget is \$65,000, which is anticipated to be largely funded by permit fees. Through the end of September, 24 projects have been submitted to the BCWMC for review. Based on past/current level of activity, this task could come in \$5,000 under budget.
3. Commission and TAC Meetings—the 2014 budget is \$16,000 and includes the cost for the Engineer to attend 30 meetings, including 12 BCWMC meetings, six TAC meetings, and 12 PSC meetings. As noted, through July, the Commission Engineer has attended 19 meetings, including six BCWMC meetings, three TAC meetings and 13 PSC meetings/Commission workshops. This budget will likely be exceeded by \$2,500.
4. Surveys and Studies—the 2014 budget is \$20,000 and includes the costs of conducting special studies (such as updating/revising the XP SWMM model), assisting with the Medicine Lake stakeholder meeting, assisting with the watershed tour, additional sampling and toxin analysis of blue-green algae, and addressing unanticipated issues, questions, etc. that can arise during the year. Assuming no additional work, this item could be \$12,500 under budget.
5. Water Quality/Monitoring—the 2014 budget is \$45,000 and includes detailed lake monitoring of Sweeney Lake and Twin Lake and other general water quality tasks as requested by the BCMWC, member cities, or regulatory agencies. In 2014, general water quality tasks have been extensive, including completing the report for the 2013 lake water quality monitoring, reviewing and commenting on the draft 2014 impaired waters list for new listings in the watershed, and following up on chloride impairment listings; reviewing and commenting on the draft bacteria TMDL, and reviewing the MPCA responses to the BCWMC’s comments; looking into Wirth Lake delisting

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questions, and assisting with de-listing press release; reviewing Plymouth's water quality monitoring report; reviewing MCES WOMP monitoring results; responding to Sweeney Lake Eurasian water milfoil question from Golden Valley staff; obtaining 2013 Medicine Lake water quality data from TRPD; responding to questions and concerns regarding Sweeney Lake blue-green algae bloom, including identification of blue-green algae species, recommending algae experts to come to a Commission meeting and communications with agencies regarding blue-green algae blooms in 2014. Based on the remaining Sweeney and Twin Lakes monitoring work and analysis, and to prepare the draft report, this budget will likely be exceeded by \$20,000.

6. Water Quantity—the 2014 budget is \$11,000 and includes the work associated with the BCWMC's lake and stream gauging program. In 2014, additional water level measurements were taken and staff visited high water sites in response to the June 19 rainfall event. This budget will likely be exceeded by \$2,500.
7. Inspections—there are two separate budget items under this task:
 - o Watershed Erosion Control Inspections—the 2014 budget is \$1,000 and covers the BCWMC's construction site erosion control inspection program. Beginning in the 2014 fiscal year, the BCWMC no longer performs these routine inspections; the budget is for providing some oversight of city inspection activities, and for inspecting projects such as County highway and MnDOT projects, as requested by the Commission. It is likely that this item could be \$1,000 under budget, as no inspections are anticipated.
 - o Annual Flood Control Project Inspections—the 2014 budget is \$20,000 and includes BCWMC's annual inspection of the flood control project system and the once-every-five-year inspection of the double box culvert. This task is expected to come in on-budget.
8. Municipal Plan Review—the 2014 budget is \$2,000 and includes the review of member cities' local plan amendments or adjacent WMO plan amendments. It is likely that this item could be \$2,000 under budget, as no plan reviews are anticipated.

Planning tasks – summary of status:

1. Next Generation Plan: the 2014 budget is \$40,000 and includes technical and planning tasks associated with development of the next generation plan, including preparation for PSC meetings/Commission workshops. The budget is for the Commission Engineer's costs. The Commission's (and the Commission Engineer's) work on the plan has included extra PSC meetings/Commission workshops to discuss goals and policies, as the PSC and the Commission strive to meet the November goal to submit the Plan for agency review. The original planning process schedule called for the policy discussions to be completed by October 2013. These discussions, along with discussions regarding other plan sections are ongoing and are expected to continue until at least October 2014. This budget has been expended. Additional costs during the 2014 fiscal year include

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preparing the full draft Plan for Commission review and approval (anticipated for the November meeting), revising the Plan and submitting it for agency review, and beginning the response to comments process in January 2015. Assuming this schedule holds, this budget will likely be exceeded by \$10,000.

2. Flood Control Project Maintenance and Replacement Plan: the overall budget for this project, started in late 2013, is \$13,500. The project is complete.

Watershed Outlet Monitoring Program (WOMP):

The overall 2014 budget is \$17,000; of this, \$6,000 is for Barr to perform data management tasks, including assistance with maintaining the rate curve for the WOMP site. This task is anticipated to come in on-budget.

TMDL Work – TMDL Implementation Reporting, including P8 Model Updates:

The 2014 budget is \$20,000, and includes collecting, summarizing and reporting data related to the implementation of TMDLs in the watershed. This work also includes and coincides with updates to the P8 model. This task is anticipated to come in on-budget.



Item 6G.
BCWMC 10-16-14

Memorandum

To: Bassett Creek Watershed Management Commission
From: Technical Advisory Committee
Subject: October 2, 2014 Technical Advisory Committee Meeting
Date: October 6, 2014

The Technical Advisory Committee (TAC) met on October 2, 2014. 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	Commissioner Clint Carlson	
Minneapolis	Lois Eberhart	
Minnetonka	Liz Stout	
New Hope	Bob Paschke	
Plymouth	Derek Asche	
Robbinsdale	Richard McCoy	
St. Louis Park	Erick Francis	
BCWMC Staff & Others	Karen Chandler and Jim Herbert (Barr Engineering), Laura Jester (Administrator), Rachael Crabb (Minneapolis Park and Recreation Board (MPRB), Alternate Commissioners Dave Tobelmann and Pat Crough	

The meeting opened at approximately 1:30 p.m. Erick Francis was appointed as chair of the TAC. There were no communications by members to report.

The Technical Advisory Committee (TAC) forwards the following recommendations and information to the Commission regarding 1) Implementation Plan for updated watershed management plan; 2) revisions needed for the Commission's "Requirements Document;" 3) development of guidelines for annualized cost per pound pollutant removal for CIP projects; and 4) stream identification signs at road crossings.

1. Provide Input on Draft Implementation Plan for Updated Watershed Management Plan

Administrator Jester reviewed Table 5-1 (Project Costs Eligible for BCWMC Reimbursement) of the draft Next Generation Watershed Plan, noting that it was discussed at a previous Commission workshop and a final version was approved by the Plan Steering Committee. There were no questions or comments on Table 5-1. Engineer Chandler presented Table 5-3 (BCWMC Capital Improvement Projects) and asked the group if any projects should be added, deleted or changed. The following items were discussed:

Ms. Eberhart noted that BC-5 and BC-6 are the same project (i.e., water quality improvement site at Main Stem in Minneapolis and wetland and creek restoration in Bryn Mawr Meadows, including daylighting of Bassett

Creek). After some discussion the group decided the word “daylighting” should be changed to “enhancing” and that more information should be added to the table. When asked about the timing and funding needed for BC-5/6, Ms. Eberhart indicated she had no way to estimate project costs until a feasibility study is done. After more discussion the group agreed to list \$500,000 in 2018 as a place holder for this project in Table 5-3.

There was discussion about how to estimate project costs for the Table 5-3 and what was included in project costs. Engineer Chandler noted that total project costs are listed in the table and include the cost of feasibility studies, design, construction, administrative costs (a percentage going back to Commission’s general fund), Commission Engineer reviews and legal needs. She noted it was very difficult to include a good estimate in the CIP table because a feasibility study hasn’t been done to refine options and costs. She noted that past Commission practice was to choose an option from the feasibility study and then pay the total project costs. However, the group noted the new Table 5-1 (Project Costs Eligible for BCWMC Reimbursement) would allow the Commission to pay for some project costs but not necessarily for every component of the project.

The group asked that Table 5-3 include a footnote that figures in the table are only estimated costs.

The group discussed project BCP-2 (deeper dredging of Bassett Creek Park Pond and construction of forebay for water quality treatment). Mr. Mathisen noted the pond has been accumulating sediment for 20 years and needs dredging. He noted it was part of the original Flood Control Project and the proposed project included both water quality improvements and flood control improvement. Engineer Chandler distributed a potential project from Commissioner Mueller in the same location and with some of the same components as BCP-2. The group agreed more information was needed to determine how the project should be listed and titled.

Engineer Chandler noted that several projects were slated to be removed from the table for various reasons. The group agreed with these except Commissioner Carlson asked that ML-14 be kept in the table for possible future shoreland restoration programs. Mr. Asche noted the City of Plymouth had completed such a program several years ago. Commissioner Carlson noted that perhaps not all lakeshore owners had known about the program and/or been able to take advantage of it at the time. The group agreed it should stay in the table with the understanding it would be a project within the City of Medicine Lake or to be administered by the Commission for all lakeshore properties. Mr. Asche asked that ML-13 be removed from the table because the project had been accomplished and that project and ML-19 be removed because there were no more Plymouth Creek restorations needed. Mr. Asche also recommended changing ML-17 to read “Alum treatment...” rather than “In-lake alum treatment.”

There was discussion about future TMDLs and how the Commission could address chloride and bacteria TMDLs. Various ideas were discussed including upgrading snow and ice removal equipment to match new technologies. Cities noted that many projects/programs to reduce chlorides were included in their MS4 permits. The group asked that be changed to “chloride and bacteria TMDLs” be included with “future TMDLs” in the table.

Ms. Crabb indicated that project BC-7 (dredging of accumulated sediment in Main Stem Bassett Creek just north of Highway 55) was a project the Park and Rec Board appreciated being in the CIP. She noted this project was on their wish list for a long time. The group noted contaminated sediments were likely in this area and wondered if the project would actually improve water quality or just aesthetics. Engineer Chandler said she would look to see if the project was included in the current Main Stem project’s feasibility study.

There was some discussion about how to fill in the rest of Table 5-3 with estimated costs and years. The TAC agreed they should see the final draft of the table before it goes out in the draft Plan for official review.

Table 5-4 review: The group briefly discussed how special projects or studies would be completed if they weren’t in the table. Engineer Chandler noted they could be completed under existing program areas including

“surveys and studies” or “water quality.” She noted the Commission has the flexibility to add funding to programs already listed in the table.

Tables 5-5 and 5-6: The group noted the tables should indicate these past accomplishments are only since 2004.

Recommendations

The TAC recommends that the Commission Engineer make the changes noted above for Tables 5-3, 5-5, and 5-6 for discussion at the October 8, 2014 Commission Workshop and that the TAC review the final draft of Table 5-3 before submittal for the 60-day review.

2. Discuss Revisions Needed for “Requirements Document”

Engineer Chandler distributed a draft table of contents with expected changes to reflect new policies in the updated Watershed Management Plan. She noted the revised Requirements Document would not be part of the Plan but would be referenced in the Plan. It was noted that revisions to the Requirements Document should be complete by the time the updated Plan is adopted next year. Engineer Chandler noted there were no major changes needed until section 4 and no changes to the floodplain standards. The use of MIDS as the water quality standard and buffer standards were the most significant changes. The group briefly discussed MIDS, the timing of revisions to the Requirements Document and changes needed in their own local controls. Engineer Chandler noted the revisions would take a series of TAC meetings and discussions with the Commission to finalize.

Recommendations

The TAC recommends that the Commission Engineer bring recommended changes to the Requirements Document and related discussion items to future Commission meetings and TAC meetings.

3. Begin Developing Guidelines for Annualized Costs per Pound Pollutant Removal from CIP Projects

Engineer Chandler reviewed questions the Commission Engineers were considering including which types of costs are included in calculating annualized costs. TAC members noted it is sometimes a complicated task to get these numbers and wondered how annualized costs were being used by the Commission. Staff noted Commissioners use the figures to distinguish among options within a feasibility study but not necessarily the outcomes of different projects. Staff noted a “level playing field” would be good with all feasibility studies using the same methods for calculating annualized costs. Alternate Commissioner Tobelmann noted that cost per pound pollutant removal is not the only component of a project or option considered by the Commission.

Mr. Francis wondered if it was possible to develop a simplified process to calculate costs like a spreadsheet with dropdowns for different options. The group also indicated the Commission Engineer should be able to report when a method or process used by a consultant was not rigorous enough to calculate reliable numbers.

Recommendations

The TAC recommends that the Commission Engineer develop draft guidance for methods to use in future feasibility studies for review and discussion at a future TAC meeting.

4. Discuss Idea of Stream Identification Signs at Road Crossings

Administrator Jester noted that if the public knew the location of creeks in their communities, it might promote more stewardship of these resources. She wondered if city crews would be willing and able to construct, install and maintain signs at creek crossings under major roadways. Mr. Oliver indicated he liked the idea and it may be feasible in some areas. He noted there are strict guidelines for sign construction and that the city was working to remove signs wherever possible. Ms. Eberhart also indicated she liked the idea but could not comment on its feasibility in Minneapolis. Administrator Jester noted there was no real budget for this project in 2015. She said she would bring a list of possible road crossing locations for discussion with individual cities and would consider the project for the 2016 budget.

Recommendations – No TAC recommendations at this time.

5. Watershed Map Distribution

Administrator Jester asked that TAC members take watershed maps for display at their city halls or other facilities.

Recommendations – No TAC recommendations.

6. November Commission Meeting Date

Recommendations

The TAC recommends to the Commission that, as in the past, the November Commission meeting be set for the third Wednesday (11/19) to allow TAC members to attend the American Public Works Association conference on the third Thursday and Friday of November.

The TAC meeting adjourned at approximately 3:30 p.m.

Future TAC Meeting agenda items:

1. Developing guidelines for annualized costs per pound pollutant removal for future CIP projects
2. Revisions needed for Requirements Document
3. Stream identification signs at road crossings
4. Blue Star Award for cities
5. Look into implementing “phosphorus-budgeting” in the watershed – allow “x” pounds of TP/acre.
6. Discuss issues/topics arising from Next Generation Plan process.

COOPERATIVE AGREEMENT

This Agreement is made as of the 16th day of October, 2014, by and between the Bassett Creek Watershed Management Commission, a joint powers watershed management organization (hereinafter the "Commission"), and the City of Golden Valley, a Minnesota municipal corporation (hereinafter the "City").

WITNESSETH:

WHEREAS, the Commission adopted the Bassett Creek Watershed Management Plan on September 16, 2004 (the "Plan"), a watershed management plan within the meaning of Minn. Stat., § 103B.231; and

WHEREAS, the Plan, as amended, includes a capital improvement program ("CIP") that lists a number of water quality project capital improvements; and

WHEREAS, the water quality projects identified in the CIP include a capital improvement project described as Restoration of the Main Stem of Bassett Creek from 10th Avenue to Duluth Street in the City of Golden Valley, as more fully described in the feasibility report for the Project prepared by WSB & Associates, Inc., entitled "2015 Bassett Creek Main Stem Restoration Project" dated June 10, 2014, which is attached and made a part hereof (the "Project"); and

WHEREAS, the cost estimate for the Project is between \$1,300,000 and \$1,600,000; and

WHEREAS, the Plan specifies that the Project will be funded by a County tax levy under Minn. Stat., § 103B.251; and

WHEREAS, on October 16, 2014, the Commission adopted a resolution ordering the Project and directing that it be constructed by the City; and

WHEREAS, project costs were certified to Hennepin County, which will levy taxes throughout the watershed for the Project costs in 2014 for collection and settlement in 2015; and

WHEREAS, the City is willing to construct the Project on the terms and conditions hereinafter set forth.

NOW, THEREFORE, ON THE BASIS OF THE PREMISES AND MUTUAL COVENANTS HEREINAFTER SET FORTH, THE PARTIES AGREE AS FOLLOWS:

1. The Project will consist of the Restoration of the Main Stem of Bassett Creek from 10th Avenue to Duluth Street, as described in the Feasibility Report for the Project.
2. The City will design the Project and prepare plans and specifications for construction of the Project. 90% plans and specifications, and any changes to such plans and

specifications, shall be submitted to the Commission for approval. Minor change orders that do not materially change either the effectiveness of the Project to meet its intended purposes or the environmental impacts of the Project may be approved by the City

3. The City will advertise for bids and award contracts in accordance with the requirements of law. The City will award the contract and supervise and administer the construction of the Project to assure that it is completed in accordance with plans and specifications. The City will require the contractor to provide all payment and performance bonds required by law. The City will require that the Commission be named as additional insured on all liability policies required by the City of the contractor and be given the same notification of cancellation or non-renewal as is given to the City. The City will require that the contractor defend, indemnify, protect and hold harmless the Commission and the City, their agents, officers, and employees, from all claims or actions arising from negligent acts, errors or omissions of the contractor. The City will supervise the work of the contractor. However, the Commission may observe and review the work of the Project until it is completed. The City will display a sign at the construction site stating "Paid for by the Taxpayers of the Bassett Creek Watershed".
4. The City will pay the contractor and all other expenses related to the construction of the Project and keep and maintain complete records of such costs incurred.
5. The Commission will reimburse Five Hundred Three Thousand Dollars (\$503,000) of Project expenses from its Capital Improvement Program Closed Project Account. The Commission will use its best efforts to secure payment from the County in accordance with Minn. Stat., § 103B.251 in the amount of One Million Dollars (\$1,000,000) by tax levy in 2014 for collection in 2015. The total reimbursement will not exceed One Million Five Hundred Three Thousand Dollars (\$1,503,000), less Commission expenses.

Out-of-pocket costs related to the Project, incurred and paid by the Commission including, but not limited to, feasibility studies, publication of notices, securing County tax levy, preparation of contracts, review of proposed contract documents, administration of this contract and a 2.5% administrative charge shall be repaid from the amount specified above from the Commission's Capital Improvement Program Closed Project Account and from funds received in the tax settlement from Hennepin County. All such funds in excess of such expenses are available for reimbursement to the City for costs incurred by the City in the design and construction of the Project. Reimbursement to the City will be made as soon as funds are available provided a request for payment has been received from the City providing such detailed information as may be requested by the Commission to substantiate costs and expenses.

6. Reimbursement to the City will not exceed the amount specified above from the Capital Improvement Program Closed Project Account and the amount received

from the County for the Project less any amounts retained by the Commission for Commission expenses. Reimbursement will not be increased by grants or other revenues received by the Commission for the Project. Reimbursement will not exceed the costs and expenses incurred by the City for the Project, less any amounts the City receives for the Project as grants from other sources. All costs of the Project incurred by the City in excess of such reimbursement shall be borne by the City or secured by the City from other sources.

7. All City books, records, documents, and accounting procedures related to the Project are subject to examination by the Commission.
8. The City will perform all necessary investigations of site contamination and secure all necessary local, state, or federal permits required for the construction of the Project and will not proceed with the Project until any required environmental review and remediation of site contamination is completed or a plan for remediation is approved by appropriate regulatory agencies. Upon completion of the Project, the City will assume responsibility for its maintenance.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized officers on behalf of the parties as of the day and date first above written.

BASSETT CREEK WATERSHED
MANAGEMENT COMMISSION

By: _____
Its Chair

And by: _____
Its Secretary

CITY OF GOLDEN VALLEY

By: _____
Its Mayor

And by: _____
Its Manager



Bassett Creek Watershed Management Commission

MEMO

Date: October 8, 2014
From: Laura Jester, Administrator
To: BCWMC Commissioners
RE: **Administrator's Report**

Aside from this month's agenda items, the Commission Engineers, city staff, committee members, and I continue to work on the following Commission projects and issues.

CIP Projects

2012 Main Stem Restoration Project, Golden Valley Rd. to Irving Ave. N., Minneapolis and Golden Valley (mostly in Wirth Park) (2012CR): Bid documents went out last month and a bid opening was held this morning (October 8th). I have not heard results of the bid opening at the time of this writing. According to the Minneapolis Park and Rec Board, all permits are on the way and some construction should begin this late fall and winter. A request to extend the Clean Water Fund grant for this project was recently approved by BWSR.

2014 Schaper Pond Diversion Project, Golden Valley (SL-3): At the August meeting, the Commission approved an agreement with the City of Golden Valley to proceed with design and construction of the project. 50% Plans are expected to be completed this fall and construction could begin in early 2015.

2014 Twin Lake In-lake Alum Treatment, Golden Valley (TW-2): See agenda item 6D.

2014 Briarwood/Dawnview Water Quality Improvement Project, Golden Valley (BC-7): The Commission approved the 90% plans for this project at its September 2014 meeting. The project is slated to be constructed this winter.

2015 Main Stem Restoration Project 10th Avenue to Duluth Street, Golden Valley (2015CR): A final public hearing on this project is scheduled for this meeting (see item 5A). The project is slated to be ordered by the Commission at this meeting (see item 6A) and an agreement with the City should be approved at this meeting (see item 6B). City staff and the consultant have been reviewing easements and walking the creek to determine access and the need for temporary construction permits prior to meeting with property owners. Staff has also been looking at the condition of the stream banks and storm sewers following the wet spring and summer to see if anything has changed significantly. The city is meeting with property owners this fall to discuss stabilization options.

2016 Northwood Lake Improvement Project, New Hope (NL-1): The Commission approved development of a feasibility study for this project at their May meeting and discussed, at length, the draft feasibility study at its September meeting. A revised draft feasibility study will be brought to the Commission's November meeting.

Other Projects

Hennepin County Natural Resources Partnership: I attended the second meeting of this group on 9/30 where we received a presentation on the County's new plan for managing and preventing the spread of aquatic invasive species. We also discussed future topics that would be useful for the group to discuss. This group plans to meet several times a year. The goal of the partnership is to discuss issues of common interest, provide a venue for presentations on an array of poignant topics, and promote a more comprehensive and collaborative approach to county-wide natural resource management.

MPRB Ecological System Plan: A third meeting of this group is scheduled for October 21. Commissioner Welch is slated to attend.

River Watch: The Commission financially supports Hennepin County's River Watch program. Three schools currently collect macroinvertebrates on Bassett Creek each spring and fall. Two of these teachers (from Blake and Copper High School) have been monitoring the creek with students for almost 20 years! I had the pleasure of meeting these teachers and their students at the creek this fall. I think it was nice for them to meet a BCWMC representative and receive copies of the watershed map. I plan to visit with one more River Watch teacher next week (10/14).

TAC Meeting: The TAC met on 10/2. I prepared and distributed the meeting agenda, attended the meeting and wrote the TAC memo.

Mississippi River Forum: I attended the Mississippi River Forum on 9/26 at the Mississippi Watershed Management Organization's (MWMO) offices to learn about their stormwater outfall monitoring program. It was good to touch base with the MWMO, see their offices (I think the Commission should take a tour there sometime!), and learn more about our adjacent watershed.

Next Generation Watershed Management Plan: (See agenda item 6E) The Commission Engineer and I continue to draft policies and other sections of the Plan, coordinate Plan Steering Committee meetings, disseminate information, and track the project timeline. The Plan Steering Committee met on 9/22 and meets again on 10/20. A Commission workshop was held this afternoon (10/8). The current Plan development timeline includes the release of the 60-day review draft this November. We are still hoping to meet that timeline.

NEMO workshops: The final West Metro NEMO workshop was held on September 25th with a bus tour of stormwater projects and practices. Alternate Commissioner Crough was the only BCWMC representative in attendance.

Develop "New Commissioner" materials: I continue to work with Amy Herbert to post these items on the Commission website.

Commission Policies: As recently directed by the Administrative Services Committee, by the end of the year I will develop policies on records and data retention, public access to documents, and fiscal policies.

CIP Process Improvement: There has been no change on this item since my June Administrator's Report. I hope to work with Alternate Commissioner Tobelmann on the use of project management software and with Amy Herbert on creating one webpage per CIP project.