

Bassett Creek Watershed Management Commission

Agenda

11:30 a.m., Thursday, June 16, 2011

Golden Valley City Hall – 7800 Golden Valley Road, Golden Valley 55427

- 1. CALL TO ORDER
- 2. APPROVAL OF AGENDA AND CONSENT AGENDA Items marked with an asterisk (*) will be acted on by one motion. There will be no discussion of the Consent Agenda items unless a commissioner requests.
- 3. CITIZEN INPUT ON NON-AGENDA ITEMS
- 4. ADMINISTRATION
 - A. Presentation of May 19th meeting minutes *
 - **B.** Presentation of Financial Statements *
 - C. Presentation of Invoices for Payment Approval
 - i. Kennedy & Graven Legal Services through April 30, 2011
 - ii. Barr Engineering Engineering Services through April 29, 2011
 - iii. Barr Engineering Engineering Services through May 27, 2011
 - iv. Watershed Consulting, LLC Geoff Nash Administrator Services through May 31, 2011
 - v. Amy Herbert May Secretarial Services
 - vi. D'amico-ACE Catering June 2011 Meeting Catering
 - vii. Finance & Commerce Publication of Notice for June 16, 2011, Hearing
 - viii. State Register Publication of Notice for June 16, 2011, Hearing
 - ix. Lakeshore Weekly News Publication of Notice for June 16, 2011, Hearing
 - x. Shingle Creek Watershed Management Commission 2011 WMWA workshop expenses
 - xi. Lorenz Bus Service, Inc. 2011 BCWMC Watershed Tour
 - xii. Sun Newspapers Publication of Notice for June 16, 2011, Hearing
 - D. Authorize Staff to Send BCWMC invoice to the City of Minneapolis for Engineering Services provided to the City for the 165 Glenwood Avenue Drainage Study
- 5. PUBLIC HEARING Receive Public Testimony and Comments of Member Cities Regarding the Proposed Major Plan Amendment to add three items to the BCWMC CIP: Restoration of the Main Stem of Bassett Creek from Irving Avenue N. in Minneapolis to Golden Valley Road in Golden Valley in 2012; Modification of the Wirth Lake Outlet in 2012; and Construction of a pond at Lakeview Park within the Medicine Lake watershed in 2013. (see June 7, 2011, Barr memo)
- 6. NEW BUSINESS
 - A. Discuss Capital Project Funding: (see June 6, 2011, Barr Engineering memo)
 - i. Estimated Tax Levy Request for County Collection in 2013
 - **B.** Discuss Draft Feasibility Reports: (see June 6, 2011, Barr Engineering memo)
 - ii. Bassett Creek Main Stem Project (see draft June 2011 report)
 - iii. Wirth Lake Outlet Structure CIP Project (see draft May 2011 report)
 - iv. Lakeview Park Pond (see June 10, 2011, memo and August 2004 Concept Study from Golden Valley)
 - C. Minneapolis Park and Recreation Board Plans for the beach at Twin Lake (verbal report)
- 7. OLD BUSINESS
 - A. Approve BCWMC's 2012 Operating Budget/ Direct Distribution (see proposed draft budget)
 - **B.** TAC Recommendations (see June 7, 2011, TAC memo; Feb 9, 2011, CIP table; WQ Trading examples)
 - i. Electronic Data Collection of Surface Water Elevations
 - ii. BCWMC and Member City Permit Review Procedures
 - iii. Water Quality Trading and Banking Programs
 - iv. Discuss BCWMC's Annual CIP Review Timeline
 - v. BCWMC's Draft 2012 Budget
- 8. COMMUNICATIONS
 - A. Chair
 - B. Administrator (see Administrator's report)
 - C. Commissioners
 - D. Committees
 - E. Counsel Engineer
- 9. INFORMATION ONLY: Bassett Creek Erosion Control Inspections, June 1 -4, 2011
- 10. ADJOURNMENT

Bassett Creek Watershed Management Commission Minutes of the Meeting of May 19, 2011

1. Call to Order

The Bassett Creek Watershed Management Commission (BCWMC) was called to order at 11:41 a.m., on Thursday, May 19, 2011, at Golden Valley City Hall by Chair Loomis. Ms. Herbert conducted roll call.

Roll Call

Crystal **Commissioner Pauline Langsdorf Geoff Nash** Administrator Charlie LeFevere Golden Valley Commissioner Linda Loomis, Chair Counsel Medicine Lake **Commissioner Ted Hoshal** Engineer **Karen Chandler** Commissioner Michael Welch, Treasurer Recorder **Amy Herbert** Minneapolis

Minnetonka Absent

New Hope Commissioner John Elder

Plymouth Commissioner Ginny Black, Vice Chair

Robbinsdale Absent St. Louis Park Absent

Also present: Caroline Amplatz, Caroline's Kids Foundation

Derek Asche, BCWMC Technical Advisory Committee, City of Plymouth

Jeannine Clancy, BCWMC Technical Advisory Committee, City of Golden Valley

Jack Frost, Metropolitan Council Environmental Services

Rebecca Forman, Braun Intertec

Ted Gattino, Blue Wing Environmental for Mid-West Floating Islands

Christopher Gise, Watershed Resident

Dave Hanson, Alternate Commissioner, City of Golden Valley

Len Kremer, Barr Engineering Company

Tom Mathisen, BCWMC Technical Advisory Committee, City of Crystal Richard McCoy, BCWMC Technical Advisory Committee, City of Robbinsdale

Joseph O'Brien

Liz Stout, BCWMC Technical Advisory Committee, City of Minnetonka

2. Approval of Agenda and Consent Agenda

Commissioner Black moved to approve the Consent Agenda and the Agenda. Commissioner Elder seconded the motion. The motion carried unanimously with six votes in favor [Cities of Minnetonka, Robbinsdale, and St. Louis Park absent from vote].

3. Citizen Input on Non-Agenda Items

Rebecca Forman of Braun Intertec Corporation (Braun) stated that she wanted to raise awareness about the proposed brush removal at the beach area at Twin Lake. She said that she had been to the site during the Twin Lake Tour and Vegetation Management meeting that was put on by the Minneapolis Park and Recreation Board (MPRB) on April 21, 2011. She said that at the meeting the Minneapolis Park and Recreation Board discussed what it was planning to do. She said that the plan was to remove all brush that had a diameter of less than two inches in order to be able to provide law enforcement with a clear line of sight down to the beach area. Ms. Forman said that she understands the desire for a clean line of sight but she is concerned about the potential impacts of the brush clearing plan such as erosion and further sedimentation of Twin Lake, which could contribute to a problem with Twin Lake water clarity issues.

Ms. Forman stated that she provided a handout today to the Commission that was a copy of the letter that Braun wrote and provided to the MPRB and that stated Braun's concerns. She said that additionally she was at the lake yesterday and saw that the temporary erosion and sediment control was not installed correctly. She said that she was really concerned that the incorrect installation would exacerbate the sediment going into the lake. Ms. Forman added that the temporary sediment control would not be functional in any sense of the word in the manner in which the control has been installed. She provided the Commission with pictures of the control and with the Minnesota Department of Transportation (Mn/DOT) specification on how to install biorolls properly. Ms. Forman went through the details of the proper installation of biorolls.

Chair Loomis added that she also attended the tour of the beach area at Twin Lake and that she has been in contact with the MPRB. She said that she had heard that the MPRB had originally planned to remove brush with a brush hog but since several residents expressed their concerns with that approach, the MPRB has decided that it would bring in a conservation corps group to hand-remove the brush instead of using the brush hog. She said that the City of Golden Valley would also be addressing with the MPRB the erosion control issues and that she had talked to MPRB staff Andrea Weber about the MPRB working with the BCWMC regarding a possible BCWMC CIP project for erosion control or stabilization of the bluff above the beach at Twin Lake. Chair Loomis reported that Andrea Weber has been in touch with Administrator Nash about the potential project. Chair Loomis commented that she had heard from Andrea Weber that the MPRB had hired Braun Intertec as one of the consultants.

Caroline Amplatz stated that through her Caroline's Kids Foundation she has hired Braun Intertec as her personal expert and that she pays all of Braun's fees for the work it does on her behalf. She added that the residents of Hidden Lake are not in favor of the brush removal project. She said that the residents of Twin Lake haven't been consulted on the project. Ms. Amplatz said one of the ideas the residents have heard about is the idea of making the beach public and building a trail down to the beach so that the police can get to the beach. She communicated that the residents do not want the beach to be made public or to have a trail built to the lake as she doesn't think the lake is big enough to handle it. She said that E. coli testing of the lake has been undertaken on her behalf and that there are no public restrooms at the site.

Ms. Amplatz said that the residents want the crime in the Twin Lake beach area to be monitored. She commented that Hidden Lakes is twenty percent of the tax base in Golden Valley and she knows that several residents plan to petition the City of Golden Valley to have their taxes reduced because there is no quiet enjoyment of the property. Ms. Amplatz clarified that the residents do not support a public beach and do not support clearing of the brush and instead do support getting rid of the crime such as by more patrolling of the beach area by the Golden Valley police. She said the residents do support a buckthorn removal project in the area of the beach that would remove only buckthorn. She said that she as well as many residents on the island at Hidden Lakes have privately funded the removal of buckthorn on their property and have gone through the proper permitting procedures.

Administrator Nash said that he had handed out today a map provided by Andrea Weber of the MPRB that illustrates a wish list of what the MPRB would like in the Hidden Beach area. He described some of the items illustrated and he said he has asked Andrea Weber to provide details about a possible erosion and bank restoration project in the beach area, which the Commission and its technical advisory committee (TAC) could consider as a possible future project to add to the BCWMC's Capital Improvement Program (CIP).

Kari Geurts asked the BCWMC for the contact information for Andrea Weber and Administrator Nash asked her to e-mail him with her request.

Commissioner Welch said that the immediate issue in front of the Commission is the installation of the erosion control measures and asked if someone from the City of Golden Valley is following up on the issue or if the Commission should contact the MPRB to inform them that the control is substandard. Ms. Clancy commented that Andrea Weber went directly to the Administrator of the BCWMC as opposed to going to the City of Golden Valley and said that the City could follow up but needs direction from the BCWMC regarding what it considers the City's role to be in this process. Commissioner Welch directed Administrator Nash to follow up with the Commission Engineers and to work it out with the City of

Golden Valley. Commissioner Black asked that Administrator Nash communicate with the MPRB about its project timeline and to bring a representative of the MPRB in front of the Commission at its next meeting to update the Commission on the project and to provide details.

Ms. Amplatz asked if the Commission agrees that the removal should begin with only removing buckthorn. Commissioner Black said that no, there isn't agreement on that issue but that the Commission would like the MPRB to come in front of the Commission to discuss the plans for the vegetation removal, after which the Commission could discuss the direction it would like the MPRB to take. Ms. Amplatz commented that she asked the MPRB if it had consulted the Commission regarding the brush removal and that the MPRB said that no, it hadn't and that based on its understanding it did not need to consult the Commission.

Commissioner Welch thanked Ms. Forman and Ms. Amplatz for bringing the issues to the Commission's attention.

4. Administration

- A. Presentation of April 21, 2011, Meeting Minutes. The meeting minutes were approved at part of the Consent Agenda.
- B. Presentation of Financial Statements. The May Financial Report was received and filed as part of the Consent Agenda.

The general and construction account balances reported in the May 2011 Financial Report are as follows:

Checking Account Balance	\$642,547.63
TOTAL GENERAL FUND BALANCE	\$642,547.63
Construction Account Cash Balance	2,415,451.10
Investment due 5/13/2015	508,918.39
Investment due 9/16/2015	512,059.83
TOTAL CONSTRUCTION ACCOUNT BALANCE	3,436,429.32
-Less: Reserved for CIP projects	4,865,112.45
Construction cash/ investments available for projects	(1,428,683.13)

- C. Presentation of Invoices for Payment Approval.
 - i. Kennedy & Graven Legal Services through 3/31/11 invoice for the amount of \$4,057.58.
 - ii. Barr Engineering Company Engineering Services through 4/29/11 invoice for the amount of \$54,724.42.
 - iii. Watershed Consulting, LLC Geoff Nash Administrator Services through 4/30/11 invoice for the amount of \$3,736.50.
 - iv. Amy Herbert April Administrative Services invoice for the amount of \$3,328.96.
 - v. D'amico- ACE Catering May BCWMC meeting catering invoice for the amount of \$362.00.
 - vi. Judy Arginteanu Education Articles Education and Public Outreach invoice for the amount of \$300.00.

- vii. City of Plymouth Three-part Education Display Education and Public Outreach invoice for the amount of \$106.82.
- viii. Hamline University 2011 WaterShed Partners Participation BCWMC's 2011 budget allocated \$3,500.00 for this watershed partnership.
- ix. MMKR Progress billing for fiscal year 2010 audit invoice for the amount of \$3,350.

Ms. Chandler requested the removal of invoice 4Cii - the Barr Engineering Company invoice - since Barr Engineering had discovered that certain items within the invoice had been mislabeled. She said that Barr Engineering would correct the invoice and would resubmit it next month. Commissioner Langsdorf requested the removal of invoice 4Cviii - the Hamline University invoice - from the roll call vote so that the Commission could discuss it. Commissioner Black moved to approve payment of remaining invoices. Commissioner Welch seconded the motion. By call of roll the motion carried unanimously with six votes in favor [Cities of Minnetonka, Robbinsdale, and St. Louis Park absent from vote].

Ms. Langsdorf clarified that the BCWMC had budgeted \$3,500 for its watershed education partnership for WaterShed Partners for 2011 and stated that \$2,000 should be directed to the WaterShed Partners media campaign and \$1,500 should be directed to the general support for WaterShed Partners. Commissioner Langsdorf moved to approve payment of the Hamline University invoice. Commissioner Black seconded the motion. By call of roll the motion carried unanimously with six votes in favor [Cities of Minnetonka, Robbinsdale, and St. Louis Park absent from vote].

- D. Approve and Authorize Distribution of Final BWMC 2010 Annual Report. Commissioner Black moved to approve the final report and its distribution. Commissioner Elder seconded the motion. The motion carried unanimously with six votes in favor [Cities of Minnetonka, Robbinsdale, and St. Louis Park absent from vote].
- E. Receive and File and Authorize Distribution of BCWMC's 2010 Financial Audit. Commissioner Black moved to receive and file the final audit and to distribute it as required. Commissioner Welch seconded the motion. The motion carried unanimously with six votes in favor [Cities of Minnetonka, Robbinsdale, and St. Louis Park absent from vote].
- F. Execute Contract with the Metropolitan Council Environmental Services for 2011 CAMP Participation. Ms. Herbert stated that Commissioner Hoshal had noted prior to the meeting that last month the Commission had agreed to add the funding of the CAMP monitoring for 2011 of Hidden Lake but that the lake was not included in the contract. Ms. Herbert said that the contract in front of the Commission would need the Commission to strike out the reference to Parkers Lake and to add the reference to the second site on Medicine Lake to the contract's list of lakes in the monitoring program that will be sponsored by the BCWMC in 2011 and she explained that Brian Johnson of the Metropolitan Council Environment Services had communicated that the Commission should handle the change in that manner. She said that the Metropolitan Council will need to prepare a contract amendment to add Hidden Lake as the eighth monitoring site being sponsored by the BCWMC in 2011 and asked that the Commission authorize the Chair to execute the amendment administratively when the Commission receives the contract.

Ms. Langsdorf added that as the Commission discussed at its last meeting the Education and Public Outreach Committee had not budgeted enough funds to monitor eight lakes and to purchase additional monitoring kits. Ms. Herbert summarized that the BCWMC had budgeted \$3,500 for the 2011 CAMP program and that the Commission has approved spending an anticipated \$4,700 for the 2011 CAMP program and that last month the Commission approved using funds from the BCWMC's Demonstration/ Education Grant budget to cover the difference.

Commissioner Black moved to approve executing the contract with the Metropolitan Council Environmental Services with the change to the contract regarding Parkers Lake and the Medicine Lake second site and to authorize the Chair and staff to handle the execution of the contract amendment regarding Hidden Lake. Commissioner Elder seconded the motion. The motion carried unanimously. Commissioner Welch remarked that he had not received a copy of the

contract. Ms. Herbert commented that the contract was not part of the hard copy of the packet because it was received after the packet was mailed out but that it was distributed to the Commission electronically prior to the meeting. Commissioner Black asked if Counsel had reviewed the contract. Mr. LeFevere responded that he had reviewed it. Commissioner Welch commented that it is a matter of organization in terms of the Commission receiving the hard copies of the meeting materials before the meeting. The motion carried unanimously with six votes in favor [Cities of Minnetonka, Robbinsdale, and St. Louis Park absent from vote].

G. Discuss Contract for 2011 and 2012 Engineering and Technical Services. Mr. Kremer described the contract and changes presented in the fee schedule. Commissioner Black said that she will not be supporting any cost increases. Mr. Kremer commented that Barr Engineering Company continuously tries to involve its younger staff that typically bill at lower fee levels as makes sense and that the changes indicated in the fee schedule information provided to the Commission should not affect the BCWMC's Engineering budget.

Commissioner Welch remarked that he is well aware of the budget financial constraints of the member cities but added that he didn't see that connection between the Barr Engineering proposed fee schedule and the BCWMC budget. He said that he reviewed the contract and supporting documentation from Barr Engineering in detail and that he did not find a basis to deny the contract.

Commissioner Black moved to approve the BCWMC continuing the current contact between the BCWMC and Barr Engineering Company for another two years. The motion was not seconded. Commissioner Welch moved to approve the contract with Barr Engineering Company for engineering and technical services as proposed. Commissioner Hoshal seconded the motion. The motion carried with five votes in favor (Cities of Crystal, Golden Valley, Medicine Lake, Minneapolis, and New Hope) and one vote against (City of Plymouth). [Cities of Minnetonka, Robbinsdale, and St. Louis Park absent from vote].

H. Execute Contract with Hennepin County Environmental Services for 2011 River Watch Participation. Commissioner Black moved to approve the contract with Hennepin County Environmental Services for participation in River Watch in 2011. Commissioner Langsdorf seconded the motion. The motion carried unanimously with six votes in favor [Cities of Minnetonka, Robbinsdale, and St. Louis Park absent from vote].

5. New Business

A. Minneapolis Park and Recreation Board Request for Financial Involvement with an Emergency Trail Repair at the Wirth Lake Treatment Basin. Mr. Kremer described the location of the site and described the ponding area on the west side of Wirth Lake. He explained that the outlet structure at the site was constructed in 2006 for the purpose of expanding the storage capacity of the pond. He stated that the project was constructed by the MPRB and the City of Minneapolis and that the BCWMC and the City of Golden Valley also participated in the cost of the project. Mr. Kremer described the basin's control structure and box culvert design as well as the difference in the water levels between the upstream and downstream sides of the box culvert. He explained that the organic backfill material adjacent to the box culvert appeared to have settled over time, allowing a void to develop adjacent to the box, which permitted water to flow through that subsequently caused erosion of the material around the box. Mr. Kremer said the result is that the erosion caused the trail bed to lose its foundation and the trail settled into the void. He said the solution for avoiding this type of erosion is using compacted impervious fill around the box culvert or installing a granular filter drain to convey seepage.

Mr. Kremer recommended that a drain be installed in the downstream side of the box culvert and that the backfill be excavated away from the box culvert and re-installed. He said that the MPRB has requested that the contractor currently working on the MPRB's trail improvement project provide the MPRB with a proposal for the repair. Mr. Kremer said the MPRB offered to provide a copy of the plan to the BCWMC.

Mr. LeFevere added that he had talked to Andrea Weber of the MPRB about this situation. He reported that the MPRB has a contract in place on an existing and currently ongoing project and that this issue needs to be fixed so that the other project can continue. He said that the MPRB has requested proposals from SEH, Inc., which is the MPRB's on-site contractor, and WSB, which designed the control structure. He said that the MPRB will review the two proposals, will select one, and is requesting that the BCWMC authorize its staff to review and comment on the design. Commissioner Welch asked if the MPRB is proposing this additional work as a change order to the current project. Mr. LeFevere said the MPRB is considering it as a possibility.

Ms. Clancy asked if it has been determined whether the project was built in accordance with the plans and specifications. Mr. Kremer said it cannot be determined whether it has been built in accordance with plans and specifications until the excavation has occurred. She asked who performed the inspection during the construction. Mr. Kremer said that as he understands it the construction was done primarily by the MPRB. Commissioner Black asked for clarification on what the Commission is being asked to do at this point in time. Mr. LeFevere responded by saying that the MPRB is asking the BCWMC to authorize its staff to review the design plan. Commissioner Welch asked if the Commission Engineer anticipates the review taking five to ten hours of the Engineer's time. Mr. Kremer said yes, it should take about that much time.

Commissioner Welch moved to direct the Commission Engineer to review the design plans. Commissioner Elder seconded the motion. Chair Loomis asked when the Commission would be advised on whether the original project was constructed in accordance with the original design. Mr. LeFevere said that is a reasonable question for the Commission to pose especially if the MPRB comes to the Commission for funds. Commissioner Black clarified that by the Commission agreeing to review the project design that the Commission has not agreed to any kind of partnership but only has agreed to review the project design and specifications.

Mr. LeFevere said that he could write a letter to the MPRB about whether it was reasonable for this failure to have happened and to communicate that if the MPRB is considering approaching the Commission with a request for funds regarding the repair the Commission would like the MPRB to provide the Commission with an analysis of who the MPRB thinks should participate in the cost and why.

Chair Loomis suggested that a friendly amendment be made to Commissioner Welch's motion, which would include the direction to Counsel to draft a letter to the MPRB expressing the Commission's concerns as discussed. Commissioner Welch asked that the Commission Engineer also provide the Commission with an analysis of whether having a trail over this structure works or if it is a bad location for a trail. Commissioners Welch and Elder agreed to the friendly amendments. The motion carried unanimously with six votes in favor [Cities of Minnetonka, Robbinsdale, and St. Louis Park absent from vote].

B. Discuss Draft 2012 BCWMC Operating Budget. Administrator Nash presented the draft budget that was assembled by the BCWMC Budget Committee and that was e-mailed out to the Commission earlier in the week. He detailed the changes that were made in the draft budget compared to the BCWMC's 2011 budget and pointed out that the proposed operating budget for 2012 is \$692,545 and described the proposed 2012 assessment to the cities of \$564,545. He said the reflected increase is being driven by the Commission's budgeting for the development of a watershed-wide XP-SWMM model, a P8 water quality model, and the costs of the next generation plan work in 2012. Administrator Nash described the decreases that the Budget Committee made in the draft 2012 budget compared to the current budget such as zeroing out the water quantity budget and he asked the Commission Engineer and the member cities to weigh in on that budget item.

The Commission discussed funding the watershed-wide P8 water quality model and the watershed-wide XP-SWMM models from the Commission's long-term maintenance account, which would reduce the amount of the member-cities' assessment. Commissioner Hoshal commented that perhaps the P8-model could be funded over 18 months with the contractor.

Ms. Chandler mentioned that the Commission Engineer recommends using \$10,000 out of the TMDL studies fund to help cover the 2012 costs of TMDL implementation.

Chair Loomis said that she would like information on what the remaining balance would be in the flood control fund if some of those funds were used for the two models. Mr. LeFevere said that when the Second Generation Plan was created funds were taken out of the old construction account and allocated. He said that \$500,000 went to emergency repair and \$335,000 went to long-term maintenance. Mr. LeFevere said that the source of all of those funds was the same and the use of the funds is documented in the Commission's Watershed Management Plan. He said that the Commission may need to go through a procedural process, such as a plan amendment, with the Minnesota Board of Water and Soil Resources (BWSR) to use those funds. Ms. Chandler said that the Commission Engineer recommends using the funds from the long-term maintenance account.

Commissioner Welch remarked that if the Commission used the long-term maintenance fund for the XP-SWMM model, used \$10,000 from the TMDL studies fund toward the 2012 water monitoring, and found a way to shift historical maintenance funds for the proposed \$135,000 for the P8 model, then the assessment to the cities would decrease to approximately \$429,000, which is less than the 2011 assessment to the cities.

Commissioner Black said it sounds like the Budget Committee and staff have direction from the Commission to look for ways to remove out of the assessment the \$135,000 proposed cost for a watershed-wide P8 model and then to bring back the proposal to the Commission. Commissioner Hoshal noted that the footnotes needed revising. Chair Loomis asked the Commission if it wanted the Budget Committee to take a more detailed look at some of the budget items that the Committee had decreased in order to make sure the budgets will fit the Commission's proposed work load for 2012. The Commission indicated yes.

Ms. Chandler recommended that the Commission not abandon its water quantity monitoring. Chair Loomis said the Budget Committee did want to hear from the cities if that information is valuable to the cities. Commissioner Black asked if that information needed to be collected annually. Ms. Chandler said that the weather from year to year cannot be predicted. Ms. Clancy said the cities do need a point to refer back to and said that if the Commission isn't going to maintain the water quantity information then who would? She said that the City of Golden Valley has utilized the data. Administrator Nash suggested that the Commission purchase transducers and install them in the eight water bodies that the Commission currently monitors. He said the transducers could take hourly readings. Administrator Nash said that the transducers are not terribly expensive and that most of the 2011 water quantity budget is basically labor and having someone do a tour of the lakes. Commissioner Welch asked if it would make sense for the Budget Committee to get input from the TAC on this budget item as well as any other budget items. Ms. Clancy said that the TAC would like some time to discuss the water quantity data collection ideas with the Commission Engineer and Administrator to talk about the most efficient way of collecting the data.

Chair Loomis said that the Budget Committee has direction from the Commission. Commissioner Black remarked that she would like to stay at last year's funding level. Ms. Chandler noted that the watershed inspections and the project inspections numbers listed in draft 2012 budget table and in the column titled Audited 2010 Actual weren't reflected accurately and that the cost of the project inspections on line 14 was between \$9,000 and \$10,000 and not the \$5,700 indicated and that the amount spent in 2010 on watershed inspections on line 13 was \$7,200. Chair Loomis clarified that Ms. Chandler was saying that for the 2012 budget the amounts budgeted for lines 13 and 14 should be flipped. Ms. Chandler said yes, they at least should be flipped.

6. Old Business

A. TAC Recommendations

i. a. Proposed BCWMC Response to Comments on the Sweeney Lake TMDL. Administrator Nash reported that the TAC discussed the draft response to comments and that he went and discussed the issues with the MPCA. He said he had distributed to the Commission the BCWMC's draft comments and had also distributed Brooke Asleson's comments regarding the BCWMC's draft comments. Administrator Nash said that he is looking for the Commission to approve a meeting between the Commission Engineer, Brooke Asleson, and himself regarding refining the BCWMC's comments in a way that

will limit the BCWMC's potential involvement. He said one of the issues to be worked out is regarding reasonable assurance about internal loading, which is the most critical piece of the Commission's comments. Administrator Nash reiterated that he would like the Commission's approval to engage with the MPCA on refining the BCWMC's response to comments with the assistance of Barr Engineering.

Commissioner Welch said he was trying to distinguish between what materials had been provided to the Commission for its review yesterday and new materials presented today. He asked if the Commission will be seeing a draft of the revised BCWMC comments before it gets submitted to the MPCA. Administrator Nash remarked that he didn't think that the issues were so critical that the Commission would need to see the final comments before they were sent. He said that the Commission could provide staff with direction not to give away the store or basically not to commit the Commission to things that it doesn't want to commit to and provide staff with direction that the BCWMC sticks to the language that Mr. Kremer put together on reasonable assurance, which basically states that after waiting 10 years, or two stormwater permit cycles, the Commission will reevaluate the situation.

Commissioner Welch requested an edit to the letter to replace the reference to the Minnesota Council for Environmental Advocacy with the proper name which is the Minnesota Center for Environmental Advocacy. Commissioner Welch asked what the next step would be after the discussion between the Administrator, Commission Engineer, and the MPCA. Administrator Nash said that then the BCWMC would submit to the Minnesota Pollution Control Agency the BCWMC's final comments on the Sweeney Lake TMDL. Administrator Nash stated that the MPCA wanted the strongest possible statement about the Commission's willingness to evaluate internal loading. He said that the responses to the comments would be incorporated into the TMDL by Ron Leaf of SEH.

Commissioner Black moved for staff to proceed with working with the MPCA along with the Commission Engineer to finalize these comments in order to move forward. Commissioner Elder seconded the motion. The motion carried unanimously with five votes in favor [Cities of Crystal, Minnetonka, Robbinsdale, and St. Louis Park absent from vote].

- b. BCWMC's Role as a Categorical Wasteload Implementer for TMDLs. Chair Loomis said the Commission touched on this topic when it discussed the creation of a P8 model as part of the draft 2012 budget discussion. Ms. Chandler reported that the TAC discussed that the P8 model is the best way to go for now until such time that new directives come from the MPCA.
- c. Policy Changes Needed to Implement TMDLs. Mr. Kremer said the discussion began with the reference to the Mn/DOT recommendation of expanding Highway 494 by a couple of lanes in each direction and the knowledge that with a TMDL in place there would be no increases in load allowed. He said the TAC discussed that the Commission's current policy for linear projects allow a lot of variance and does not limit or prohibit the loadings from the road expansion projects such as Mn/DOT's proposal to expand 494. Mr. Kremer said that in order to implement the TMDLs the Commission needs to take a look at its current policies because currently the policies on new developments and linear projects would allow increases in loads. Mr. Kremer said there could be a type of trading program put in place so that for those watersheds where there are completed TMDLs where the Commission doesn't want an increase in load some additional BMPs could be built beyond what is needed to implement the TMDL and then the Commission would allow projects that occur in those watersheds to buy credits from that bank.

Mr. Kremer reported that the TAC wants to collect additional information on those alternatives, such as the Ramsey-Washington trading program, to discuss at a future TAC meeting. He noted that Commissioner Welch had provided comments to the TAC on potential policy changes. Commissioner Welch brought up the Ramsey-Washington

trading program and brought up the issue of the enforcement of policies and the role of the MS4 permitting process as a tool. Commissioner Welch said that the numbers he put into his comments on the policies are not unprecedented but were put in to start the discussion. Chair Loomis said that it seems that the TAC should discuss who has what ordinances already in place.

Mr. Asche remarked that he can understand the Commission's viewpoint but that there is a lot of effort at the city level any time a review is triggered. He said for example, with a 20-cubic yard disturbance that did not have erosion control measures in place when a rain downpour occurred, he wonders how much phosphorous went down the drain and the comparison of that amount with the amount of effort that went into the permit, the design, the inspection, and the follow-up of that project. Mr. Asche said he thinks it would be valuable to know the cost benefit and to understand at what level does it make sense and is it efficient to go through the permitting process. He said he thinks the TAC would have a robust discussion about this issue.

Commissioner Black moved for this issue to go to the TAC. She added that she thinks this should be discussed as a policy issue for the Plan. She said that the TAC members could bring their ordinances to discuss. Commissioner Elder seconded the motion. Ms. Clancy requested that the Commission direct Administrator Nash to collect the ordinances and create a matrix about the trigger points and to distribute it to the TAC. The Commission agreed to that staff request. She added that if residents need to go to the cities to get a permit and then need to go to the watershed for a permit, the residents will get angry. The motion carried unanimously with six votes in favor [Cities of Minnetonka, Robbinsdale, and St. Louis Park absent from vote].

- ii. RFQ for Engineering and Technical Services. Administrator Nash asked the Commission to consider sending out the RFQ presented in the meeting packet to select consultants and noted that the TAC had discussed that the RFQ doesn't need to be posted. Commissioner Black asked that the information regarding the purpose of the Commission's request to develop a list be moved from page 4 to page 1. Commissioner Welch said that the Commission should see the minutes of the last meeting regarding his objections to this approach but setting those aside he agrees with Commissioner Black's comments and also requested the removal of the third sentence in the second paragraph. He also asked if the Commission needs to state how many firms that the Commission will put on its list. The Commission agreed that it does not need to be listed in the RFQ. Ms. Clancy said that the TAC wants the RFQ to make it clear that just because a firm submits its qualifications doesn't mean the firm will end up on the list. Commissioner Black recommended removing the background information on the Commission from the RFQ and instead included the direction that firms could go to the Commission's Web site for background information.
- iii. BCWMC's Role in Advising Property Owners about Water Quality Sampling in the Bassett Creek Watershed. Administrator Nash said that the TAC's opinion is that the BCWMC should stay away from the role because the Commission has nothing to gain from it.
- B. Discuss Management Options for Twin Lake. Ms. Chandler said that in March Dr. Pilgrim of Barr Engineering Company presented Twin Lake water quality information to the Commission and the Commission subsequently asked for information on management options for Twin Lake. She said that Dr. Pilgrim said that alum treatment would be an option right now for Twin Lake and so the Commission Engineer is recommending that the Commission consider it as a CIP project, which would cost between \$40,000 and \$60,000.

Ted Gattino introduced himself as a member of Blue Wing Environmental and as representing Midwest Floating Islands. He said he has data supporting the floating islands efficacy in nutrient uptake. He said the islands were like floating treatment wetlands that use recycled materials, provide habitat, and reduce wave energy. Mr. Gattino said an island is a one-time expenditure and he said that he would like to offer this option as a possible best management practice.

Ms. Chandler said that the recommended alum treatment would be a one-time treatment and would not be a dosing plant. Chair Loomis said she doesn't think that the residents living adjacent to Twin Lake would be comfortable with an alum treatment. Commissioner Black said that there is one of these floating islands from a different company in one of Plymouth's stormwater ponds and that it was financed privately by a resident. Commissioner Welch said he thinks it would be good to open up the ideas to include information about the floating island. Commissioner Black said it would be worthwhile to investigate it as an option for this situation or perhaps it would be an option for a different situation.

Chair Loomis requested that the Twin Lake Management Options issue be added to the BCWMC's agenda for August or September so the Commission could review options and costs and directed staff to provide information to the Commission about options and costs.

[Commissioner Welch departed the meeting.]

- C. Discuss Major Plan Amendment Schedule. Ms. Chandler said that the schedule previously outlined for the major plan amendment remains the same and that she would like the Commission's authorization to send the draft feasibility reports to Joel Settles of Hennepin County at the same time as they are distributed to the Commission. She noted that the Commission will be holding its public hearing on the major plan amendment at the June 16th BCWMC meeting. The Commission directed Ms. Chandler to send out the draft feasibility reports to Mr. Settles at the same time they are distributed to the Commission.
 - [Commissioner Elder departed the meeting. The Commission no longer had a quorum.]
- D. Discuss Possible New Water Quality Policies. See the discussion 6Aic TAC Recommendations.

7. Communications

A. Chair:

i. Chair Loomis reported that the Mississippi River E. Coli group had a meeting but the group didn't have clear direction on how to move forward.

B. Administrator:

- i. Administrator Nash announced that he sent out the Administrator Performance Evaluation form a couple of days ago and requested that it be returned by next Friday. He said that he would resend it.
- ii. Administrator Nash asked the Commission for direction on which BCWMC staff it wanted to use for the June watershed tour. The remaining four commissioners agreed that it would reimburse one Commission Engineer and the Recorder as well as the Administrator for their time. Chair Loomis directed the Administrator to communicate to the Commission that the consensus of the remaining commissioners was that it would be important for the Commission to have the Recorder attend the watershed tour and that the Commission will reimburse her for her time and that the Commission will proceed in that manner if there are no objections.
- iii. Administrator Nash said that he heard from Deputy Treasurer Sue Virnig that the BCWMC hasn't received the assessment from the City of Minneapolis. Chair Loomis directed Administrator Nash to e-mail Commissioner Welch about the issue.

C. Commissioners:

- i. Commissioner Black said that she is receiving lots of e-mails about the issues of zebra mussels and lake levels on Medicine Lake and asked if the Commission wants to have those forwarded. The Commission indicated that it would.
- ii. Commissioner Hoshal announced that he will be an alternate this summer for two CAMP volunteers while they are on vacation and that he will go through the volunteer training.
- iii. Commissioner Hoshal reported that he attended a forum workshop put on WMWA about protecting water resources. He said one of the presenters discussed a new technology to extract phosphorous called a Minnesota Filter, which is composed of iron filings and sand.
- iv. Commissioner Hoshal announced that the Education and Public Outreach Committee will meet on Tuesday, May 24th and will provide a report to the Commission at its June meeting.
- v. Commissioner Langsdorf said that she had a resolution to introduce in appreciation for the services of Stu Stockhaus. Chair Loomis directed the resolution to be introduced at the June meeting so that there would be a quorum to vote on the resolution.
- vi. Commissioner Langsdorf reported on the Zachary Lane Environmental Fair and said that it went really well.
- D. Committees: No Communications.
- E. Counsel: No Communications.
- F. Engineer: No Communications.

8. Adjournment

Chair Loomis adjourned the mo	eeting at 2:45 p	.m.	
Linda Loomis, Chair	 Date	Amy Herbert, Recorder	Date
Jim de Lambert, Secretary	Date		

BEGINNING BALANCE 10-May-11 ADD:			642,547.63
General Fund Revenue:			
Interest/(Bank Fees)		7.31	
Assessment not received - Minneapolis			
Permits:			
City of Plymouth	Zachary Hockey Rink	1,000.00	
Reimbursed Construction Costs		34,277.24	
	Total Revenue and Transfers In		35,284.55
DEDUCT:			
Checks:			
2353 Barr Engineering	May Engineering	59,701.05	
2354 D'Amico Catering	June Meeting	215.89	
2355 Amy Herbert	May Secretarial	3,485.71	
2356 Kennedy & Graven	April Legal	2,294.33	
2357 Shingle Creek Watershed	WMWA Workshops	869.75	
2358 Finance and Commerce	PH Notices	180.52	
2359 State Register	Publish Amendment Plan	96.60	
2360 Watershed Consulting	May Administrator	4,147.15	
2361 Lakeshore Weekly News	Legal Notice-PH	171.60	
2362 Barr Engineering	April Engineering-Reissue	54,724.42	
2343 VOID-Barr	VOID	(54,724.42)	
	Total Checks		71,162.60
Outstanding from previous years-Prior Year Expenses:			
Meadowbrook School	2009 Exp-Grant	992.08	
2316 West Metro Water Alliance	2010 Exp-Grant	2,969.50	
2350 Hamline University	Watershed Partners	3,500.00	
ENDING BALANCE 7-Jun-11		_	606,669.58

	2011/2012 BUDGET	CURRENT MONTH	YTD 2011/2012	BALANCE
OTHER GENERAL FUND REVENUE	DODGET	MONTH	2011/2012	DALAIVEL
ASSESSEMENTS	434,150	0.00	402,776.00	31,374.00
PERMIT REVENUE	40,000	0.00	10,500.00	29,500.00
GRANTS	0	0.00	0.00	0.00
MISCELLANEOUS	0	0.00	0.00	0.00
INTEREST	0	0.00	(18.54)	18.54
REVENUE TOTAL	474,150	0.00	413,257.46	60,892.54
EXPENDITURES				
ENGINEERING				
ADMINISTRATION	110,000	14,667.00	51,284.06	58,715.94
PLAT REVIEW	50,000	3,708.00	19,982.92	30,017.08
COMMISSION MEETINGS	13,000	1,181.24	3,900.65	9,099.35
SURVEYS & STUDIES	20,000	4,479.96	8,650.96	11,349.04
WATER QUALITY/MONITORING	34,000	723.13	5,961.13	28,038.87
WATER QUANTITY	11,000	1,034.56	3,793.44	7,206.56
WATERSHED INSPECTIONS	8,000	(256.57)	4,047.57	3,952.43
ANNUAL FLOOD CONTROL INSPECTIONS	10,000	0.00	0.00	10,000.00
REVIEW MUNICIPAL PLANS	2,000	0.00	0.00	2,000.00
ENGINEERING TOTAL	258,000	25,537.32	97,620.73	160,379.27
ADMINISTRATOR	36,000	3,430.15	14,047.15	21,952.85
LEGAL COSTS	18,500	1,339.33	4,900.31	13,599.69
AUDIT, INSURANCE & BONDING	15,000	0.00	4,950.00	10,050.00
FINANCIAL MANAGEMENT	3,000	0.00	0.00	3,000.00
MEETING EXPENSES	4,750	215.89	1,585.90	3,164.10
SECRETARIAL SERVICES	45,000	3,348.70	14,512.15	30,487.85
PUBLICATIONS/ANNUAL REPORT	2,000	1,485.50	2,410.00	(410.00)
WEBSITE	4,500	0.00	213.75	4,286.25
PUBLIC COMMUNICATIONS	3,000	448.72	448.72	2,551.28
WOMP	10,000	210.00	367.50	9,632.50
DEMONSTRATION/EDUCATION GRANTS	5,000	0.00	0.00	5,000.00
EDUCATION, OUTREACH & PARTNERSHIPS	19,400	869.75	6,619.70	12,780.30
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 (moved to CF)	0	0.00	0.00	0.00
GRAND TOTAL	474,150	36,885.36	147,675.91	326,474.09

ADD: Interest RBC RBC RBC Construction C	Investment Interest Investment Called Costs				27.49 5,312.50 500,000.00	
RBC RBC DEDUCT:	Investment Called				5,312.50	
RBC DEDUCT:	Investment Called				•	
DEDUCT:					500,000.00 —	
	Costs				-	
	Costs					505,339.99
					34,277.24	
					· -	34,277.24
Ending Balance:	7-Jun-11				=	2,886,513.85
Investments				·	······································	
Federal Home Loan Mtg Corp - F	Purchased 1/14/11 - Due 9/1	.6/2015 - 0.5% (C	urrent mkt value \$5	07,801.00)	_	512,059.83
Total Investments						512,059.83
Construction Account - Cash Bal	ance (detailed above)				-	2,886,513.85
Total: Construction Fund Cash,	/Investments					3,398,573.68
Less: Reserved for CIP Projects	;					4,865,112.45
Construction Cash/Investments	Available for projects				_	(1,466,538.77)
BCWMC Second Generation Pro	ojects	Budget	Current	YTD	Project Total	Balance
CIP Projects:						
Twin Lake-expected completion	2006	140,000	0.00	0.00	5,724.35	134,275.65
West Medicine Lake Park Pond		1,100,000	0.00	0.00	744,633.58	355,366.42
Plymouth Creek Channel Restora	· · · · · · · · · · · · · · · · · · ·	810,200	1,023.90	570,008.73	631,169.93	179,030.07
Main Stem Crystal to Regent (20	·	501,100	597.40	814.90	23,974.75	477,125.25
Wisc Ave/Duluth Street-Crystal (580,200	0.00	560.00	35,363.97	544,836.03
North Branch-Crystal (2011 CR-N	NB)	834,900	0.00	0.00	31,522.86	803,377.14
Plymouth Pond NB-07(NL-2)		0	0.00	810.25	1,412.25	(1,412.25)
Wirth Lake Outlet Modification		250,000	338.35	10,656.35	13,566.35	236,433.65
Sweeney Lake Outlet (2012 FC-1		250,000	544.35	2,113.40	6,563.40	243,436.60
Main Stem Irving Ave to GV Roa	d (2012 CR)	600,000	22,664.85	35,402.77	37,122.77	562,877.23
Lakeview Park Pond (2013)	11 1111 (20) (4)	196,000	0.00	296.50	934.00	195,066.00
Schaper Pond Enhancement Fea	isibility (SL-1)	37,000	941.90	2,608.90	2,608.90	34,391.10
TMDL Projects						
TMDL Studies		125,000	0.00	0.00	102,588.15	22,411.85
Sweeney Lake TMDL		119,000	686.00	2,158.50	209,090.86	(90,090.86)
Annual Flood Control Projects:						
Flood Control Emergency Mainte	enance	500,000	0.00	0.00	0.00	500,000.00
Flood Control Long-Term Mainte	enance	523,373	0.00	0.00	13,566.33	509,806.67
Annual Water Quality						
Channel Maintenance Fund		200,000	0.00	0.00	41,818.10	158,181.90
		6,766,773	26,796.75	625,430.30	1,901,660.55	4,865,112.45
Project Reimbursements						
Sweeney Lake TMDL			0.00	0.00	155,346.44	
,						

Tax Levy Revenu	es							
		Abatements /			Year to Date	Inception to Date		
	County Levy	Adjustments	Adjusted Levy	Current Received	Received	Received	Balance	BCWMO Levy
2011 Tax Levy	862,400.00		862,400.00				862,400.00	862,400
2010 Tax Levy	935,298.91	(1,660.13)	933,638.78			921,936.47	11,702.31	935,000
2009 Tax Levy	800,841.30	(6,550.93)	794,290.37			791,628.41	2,661.96	800,000
2008 Tax Levy	908,128.08	(3,381.33)	904,746.75			903,232.32	1,514.43	907,250
2007 Tax Levy	190,601.74	(640.14)	189,961.60			189,863.23	98.37	190,000
2006 Tax Levy	531,095.47	(2,721.10)	528,374.37			528,403.53	(29.16)	519,000
2005 Tax Levy	450,401.40	(2,380.36)	448,021.04			448,065.77	(44.73)	438,000
			•	0.00		_	878,303.18	•

Bassett Creek Construction Project Details	
--	--

	<u>_1</u>	Bassett Creek Const	truction Project Det	ails														6/8/2011
							2010	2010	2011	2011		2012	2012	2012	2013			
																Schaper Pond		
			Flood Control	Flood Control Lang		West Medicine	Plymouth Creek	10-i- Ct Ct-l	Miles Ave (Delegate	Name Barra	Diament Design	Wirth Lake Outlet		Main Stem Irving		Enhance.		
	Totals	Twin Lake	Emergency Maintenance	Flood Control Long- Term Maintenance	1	Lake Park Pond	Channel Restoration	Main Stem Crystal to Regent	Wisc Ave (Duluth Str)-Crystal (GV)	North Branch - Crystal	07 (NL-2)	Modification (WTH-	Sweeney Lake Outlet-FC1	Ave to GV Road (2012CR)	Lakeview Park Pond	Feasibility (SL-	TMDL Studies	Sweeney Lake TMDL
	Totals	1 Will Luke	Widnitellance	Term Walletiance	Citamici Manic.	Lake Falk Folia	Restoration	to kegent	Strj-Crystal (GV)	Crystai	07 (IVL-2)		Outlet-FC1	(2012CK)	Pond	1)	TIVIDE Studies	TIVIDE
Original Budget	6,766,773	140,000	500,000	773,373 (250,000.00)	200,000	1,100,000	810,200	501,100	580,200	834,900		250,000	250,000	600,000	196,000	37,000	125,000	119,000
Expenditures:																		
Feb 2004 - Jan 2005	2,621.00	1,983.50													637.50			
Feb 2005 - Jan 2006	8,665.89	1,716.70		3,954.44	2,994.75													
Feb 2006 - Jan 2007	12,414.04	375.70		9,611.89		1,789.25											637.20	
Feb 2007 - Jan 2008	115,013.14	36.00				1,835.70											23,486.95	89,654.49
Feb 2008 - Jan 2009	156,801.69				38,823.35	18,392.11	20,954.25										31,590.12	47,041.86
Feb 2009 - Jan 2010	99,373.09	1,612.45				687.00	9,319.95	11,569.05		<u> </u>						!	31,868.63	44,316.01
Feb 2010 - Jan 2011	881,341.40					721,929.52	30,887.00	11,590.80	34,803.97	31,522.86	602.00	2,910.00	4,450.00	1,720.00			15,005.25	25,920.00
Feb 2011 - Jan 2012	659,707.54						570,543.53	1,187.35	2,520.00		810.25	14,863.35	2,161.15	55,109.75	296.50	8,130.16		4,085.50
Total Expenditures:	1,935,937.79	5,724.35		13,566.33	41,818.10	744,633.58	631,704.73	24,347.20	37,323.97	31,522.86	1,412.25	17,773.35	6,611.15	56,829.75	934.00	8,130.16	102,588.15	211,017.86
Project Balance	4,830,835.21	134,275.65	500,000.00	509,806.67	158,181.90	355,366.42	178,495.27	476,752.80	542,876.03	803,377.14	(1,412.25)	232,226.65	243,388.85	543,170.25	195,066.00	28,869.84	22,411.85	(92,017.86)
	Γ			ì	ı		2010	2010	2011	2011	1	2012	2012	2012	2013	I		r
							2010	2010	2011	2011		2012	2012	2012	2013	Schaper Pond		
			Flood Control				Plymouth Creek					Wirth Lake Outlet		Main Stem Irving		Enhance.		
			Emergency	Flood Control Long-		West Medicine	Channel	Main Stem Crystal	Wisc Ave (Duluth	North Branch -	Plymouth Pond NB	Modification (WTH	Sweeney Lake	Ave to GV Road	Lakeview Park	Feasibility (SL-		Sweeney Lake
	Totals	Twin Lake	Maintenance	Term Maintenance	Channel Maint.	Lake Park Pond	Restoration	to Regent	Str)-Crystal (GV)	Crystal	07 (NL-2)	4)	Outlet-FC1	(2012CR)	Pond	1)	TMDL Studies	TMDL
Project Totals By Vendor	424 240 64	2.752.40		0.540.00		7,004,04												
Barr Engineering	431,218.64	3,758.10		9,549.32	354.75	7,004.91	38,467.60	21,098.50	36,531.32	30,730.21	1,412.25	17,515.50	5,914.00	56,762.90	889.00	8,130.16	99,711.70	93,743.17
Kennedy & Graven	14,980.44	1,966.25		24.75	354.75	1,427.15	2,053.25	2,435.25	792.65	792.65		257.85	697.15	66.85	45.00		1,164.30	2,902.59
City of Golden Vailey	2,640.00				2,640.00													
City of New Hope	813.45				20 022 25	725 204 52	F 60 500 00	813.45										
City of Plymouth	1,343,647.20				38,823.35	736,201.52	568,622.33											
City of St. Louis Park	3,003,36			2 002 26														
Com of Trans S E H	3,992.26			3,992.26														
Misc	101,598.10 14,486.15											ĺ						101,598.10
	22,561.55						33 564 55										1,712.15	12,774.00
2.5% Admin Transfer	22,561.55						22,561.55			·								
Total Expenditures	1,935,937.79	5,724.35		13,566.33	41,818.10	744,633.58	631,704.73	24,347.20	37,323.97	31,522.86	1,412.25	17,773.35	6,611.15	56,829.75	934.00	8,130.16	102,588.15	211,017.86
	_																	
	Г						2010	2010	2011	2011	I	2012	2012	2012	2013	ι Γ	I	
																Schaper Pond		[
			Flood Control				Plymouth Creek					Wirth Lake Outlet		Main Stem Irving		Schaper Pond Enhance.		

							2010	2010	2011	2011		2012	2012	2012	2013			
																Schaper Pond		
			Flood Control				Plymouth Creek					Wirth Lake Outlet		Main Stem Irving		Enhance.		
			Emergency	Flood Control Long	-	West Medicine	Channel	Main Stem Crystal	Wisc Ave (Duluth	North Branch -	Plymouth Pond NB	Modification (WTH-	Sweeney Lake	Ave to GV Road	Lakeview Park	Feasibility (SL-		Sweeney Lake
	Totals	Twin Lake	Maintenance	Term Maintenance	Channel Maint.	Lake Park Pond	Restoration	to Regent	Str}-Crystal (GV)	Crystal	07 (NL-2)	4)	Outlet-FC1	(2012CR)	Pond	1)	TMDL Studies	TMDL
			1															
Levy/Grant Details																		
2009/2010 Levy	935,000						902,462	32,538										
2010/2011 Levy	862,400							286,300	160,700	415,400								
2011/2012 Levy - Future ???	971,000											175,000		600,000	196,000			
Construction Fund Balance	904,000						62,738	2,262	419,500	419,500								
Henn Cty Grant - City of Plymouth	155,000						155,000											
Henn Cty Grant - City of Golden Valley	135,000							135,000										
BWSR Grant- BCWMO	435,000						212,250	147,750				75,000						
																		İ
Total Levy/Grants	4,397,400			•			1,332,450	603,850	580,200	834,900		250,000		600,000	196,000			

BWSR Grants Received 191,025 132,975 67,500

	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed
	2003 Floodproofing	2004 Medicine Lake Water Quality	2005 Medicine Lake - In Lake Treatment	2006 Medicine Lake - In Lake Treatment	2005 Northwood Lake Project	2005 Wirth Lake Project	Medicine Lake - Goose Reduction	Sweeney Lake Branch Channel
Original Budget	700,000.00	880,100.00	105,000.00	110,000.00	182,700.00	254,000.00		500,000.00
Expenditures:								
Feb 2004 - Jan 2005	162,868.00	705,759.70	0.00	0.00	953.50	6,075.31	0.00	0.00
Feb 2005 - Jan 2006	17,105.34	165.39	120.00	0.00	0.00	4,586.92	0.00	0.00
Feb 2006 - Jan 2007	43,869.32	185,228.29	77,007.39	54,676.12	1,350.00	4,246.49	500.00	0.00
Feb 2007 - Jan 2008	35.40	7,260.68	0.00	0.00	150,549.79	69,182.00	0.00	13,228.26
Feb 2008 - Jan 2009	474,347.34	0.00	0.00	15,389.40	0.00	0.00	0.00	372,528.31
Feb 2009 - Jan 2010				0.00	0.00	0.00	0.00	0.00
Feb 2010 - Jan 2011								
Feb 2011 - Jan 2012								
Total Expenditures:	698,225.40	898,414.06	77,127.39	70,065.52	152,853.29	84,090.72	500.00	385,756.57
Project Balance	1,774.60	(18,314.06)	27,872.61	39,934.48	29,846.71	169,909.28	(500.00)	114,243.43

Kennedy & Graven, Chartered

200 South Sixth Street Suite 470 Minneapolis, MN 55402

(612) 337-9300 Tax ID No. 41-1225694

May 23, 2011

Statement No. 102234

Bassett Creek Water Management Commission

Sue Virnig 7800 Golden Valley Road Golden Valley, MN 55427

RECEIVED

MAY 2 7 2011

Through April 30, 2011

BARR ENGINEERING CO

BA295-00001	General	1,339.33
BA295-00027	2010 Plymouth Creek Restoration (PC-1, PC-2)	534.80
BA295-00028	2010 Bassett Creek Main Stem Restoration	372.45
BA295-00031	Sweeney Lake Outlet	47.75

Total Current Billing:

2,294.33

I declare, under penalty of law, that this account, claim or demand is just and correct and that no part of it has been paid.

Signature of Claimant

Kennedy & Graven, Chartered

200 South Sixth Street Suite 470 Minneapolis, MN 55402

Bassett Creek Water Sue Virnig

April 30, 2011

BA295-00001 General

Through April 30, 2017 For All Legal Services		ws:	Hours	Amount
4/9/2011	CLL	Revise table showing major plan amendment process	0.45	85.95
4/11/2011	CLL	Proof, revise and email table on CIP amendment process	0.15	28.65
4/15/2011	CLL	Review agenda materials	0.35	66.85
4/19/2011	CLL	Voicemail from G. Nash; check bylaws and statute; phone call to G. Nash regarding solicitation of letters of interest	0.45	85.95
4/21/2011	CLL	Attend commission meeting	3.50	668.50
4/22/2011	CLL	Letter to T. Haile regarding Bassett insurance	0.35	66.85
4/26/2011	CLL	Phone call from A. Herbert regarding audit report; phone call to S. Virnig and email to S. Virnig regarding audit description of tax levy; complete and email insurance application; email to A. Herbert regarding same	0.85	162.35
4/26/2011	CLL	Review Riverwatch contract and email to G. Nash regarding same	0.40	76.40
4/29/2011	CLL	Letter to A. Herbert regarding Bassett insurance application	0.10	19.10
4/29/2011	CLL	Review draft minutes	0.35	66.85
		Total Services:	\$	1,327.45
For All Disbursements	As Follo	ws:		
		Postage		1.68
4/21/2011		Charles L. LeFevere; Mileage expense		10.20
		Total Disbursements:	\$	11.88
		·		

Total Services and Disbursements: \$

1,339.33

Kennedy & Graven, Chartered

200 South Sixth Street Suite 470 Minneapolis, MN 55402

Bassett Creek Water Sue Virnig

April 30, 2011

BA295-00027 2010 Plymouth Creek Restoration (PC-1, PC-2)

Through April 30, 2011 For All Legal Services A	s Follov	ws:	Hours	Amount
4/1/2011	CLL	Proof and revise contract amendment and memo on funding; email same to G. Nash, Barr and cities; exchange emails with D. Asche regarding same	0.95	181.45
4/5/2011	CLL	Revise and email draft contract amendment	0.25	47.75
4/6/2011	CLL	Phone call from G. Nash regarding contract amendment; email to G. Nash; message to D. Asche; email to Barr and G. Nash regarding same; revise contract	0.75	143.25
4/7/2011	CLL	Revise memo on funding history and status of project; emails to staff and cities regarding contract amendments	0.75	143.25
4/11/2011	CLL	Email to D. Asche regarding Plymouth Creek contract	0.10	19.10
		Total Services:	\$	534.80

Total Services and Disbursements: \$

534.80

Kennedy & Graven, Chartered

200 South Sixth Street Suite 470 Minneapolis, MN 55402

Bassett Creek Water Sue Virnig

April 30, 2011

BA295-00028

2010 Bassett Creek Main Stem Restoration

Through April 30, 2011 For All Legal Services A	As Follov	ws:	Hours	Amount
4/1/2011	CLL	Proof and revise contract amendment and memo on funding; email same to G. Nash, Barr and cities; exchange emails with D. Asche regarding same	0.65	124.15
4/5/2011	CLL	Revise and email draft contract amendment	0.25	47.75
4/6/2011	CLL	Revise contract amendment	0.20	38.20
4/7/2011	CLL	Revise memo on funding history and status of project; emails to staff and cities regarding contract amendments	0.75	143.25
4/11/2011	CLL	Email J. Clancy regarding Main Stem contract amendment	0.10	19.10
		Total Services:	\$	372.45

Total Services and Disbursements: \$

372.45

Kennedy & Graven, Chartered

200 South Sixth Street Suite 470 Minneapolis, MN 55402

Bassett Creek Water Sue Virnig

April 30, 2011

BA295-00031 Sweeney Lake Outlet

Through April 30, 201 For All Legal Services		ws:	Hours	Amount
4/7/2011	CLL	Email to J. Clancy regarding Sweeney Lake Outlet agreement	0.10	19.10
4/11/2011	CLL	Email J. Clancy regarding feasibility report for Sweeney Lake outlet; email to A. Herbert	0.15	28.65
		Total Services:	\$	47.75

Total Services and Disbursements: \$ 47.75



resourceful. naturally. engineering and environmental consultants

Page # 1

Invoice # 23270051-2011-3

Project # 23/27-0051

Client # 59

May 6, 2011-Rev. June 2, 2011

Invoice of Account with BARR ENGINEERING COMPANY

For professional services during the period of March 26, 2011 through April 29, 2011 (REVISED)

ENGINEERING

Bassett Creek WMO

7800 Golden Valley Road Golden Valley, MN 55427

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, administrator, watershed communities, developers in the watershed, Minneapolis Park and Recreation Board (MPRB), Three Rivers Park District (TRPD), Mississippi Watershed Management Organization, Minnesota Department of Transportation (Mn/DOT), Hennepin County, Minnesota Board of Water and Soil Resources (BWSR), Metropolitan Council Environmental Services (MCES), Minnesota Pollution Control Agency (MPCA), Corps of Engineers and interested citizens; coordination with administrator regarding post-meeting tasks; reviewed development thresholds and summarized background and BCWMC requirement triggers and provided email to administrator; coordination with administrator regarding 2012 tour; communication with administrator and internal meeting regarding 2012 budgeting; internal meeting to review and revise next generation planning process for 2012 budgeting; prepared draft 2012 budgets for review by administrator; reviewed and revised construction account reports from deputy treasurer; prepared for and attended meeting with administrator and deputy treasurer regarding changes to construction account reports; communication with deputy treasurer regarding revised construction account reports; communication with counsel regarding BCMWC funding and grants received for CIP projects; provided 2009 annual report template to administrator; reviewed updated construction account tables; provided West Medicine Lake Park Pond information to administrator; communications with administrator and internal staff regarding DNR request for information; communication with recording administrator regarding website; communication with administrator regarding Southwest LRT stations in Bassett Creek watershed; email Met Council WOMP data to administrator; and communication with Met Council staff regarding WOMP data analysis; communication with Hennepin County staff regarding overall watershed management; coordination with administrator regarding watershed tour; revised next generation planning process flow diagram and developed accompanying summary; developed TMDL implementation/monitoring activities summary; responding to FLUX modeling questions; call from Minneapolis staff regarding Van White Bridge; communications with administrator regarding TAC membership; call from administrator regarding major plan amendment process.

Leonard J. Kremer, Principal Engineer/Scientist	
16.1 hours @ \$160.00 per hour\$	2,576.00
James P. Herbert, Principal Engineer/Scientist	
6.2 hours @ \$145.00 per hour\$	899.00

Karen L. Chandler, Engineer/Scientist/Specialist III 28.7 hours @ \$145.00 per hour\$	4,161.50
Gregory J. Wilson, Engineer/Scientist/Specialist III 0.5 hours @ \$140.00 per hour\$	70.00
Technicians/Administrative\$	447.00
Expenses (Mileage)	28.56
Subtotal, Technical Services\$	8,182.06

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Telephone conversations regarding proposed developments; provided watershed hydraulic information, flood profiles and BCWMC development requirements to applicants; communication with MPRB regarding proposed project; phone conversation with Terra Engineering regarding proposed development along Sweeney Lake; coordination with city regarding 2010 projects performed in Golden Valley; phone call with St. Louis Park staff regarding street reconstruction project; telephone conversation with Westwood regarding Plymouth site; communication with LHB and city staff regarding Tennant site in Golden Valley.

James P. Herbert, Principal Engineer/Scientist		
4.3 hours @ \$145.00 per hour	<u>\$</u>	623.50
Subtotal, Preliminary Site Review/Correspondence	. \$	623.50

MONTHLY MEETING PREPARATION

Preparation of monthly memorandum for BCWMC meeting; reviewed draft BCWMC meeting minutes, agenda and packet materials and discussed comments with Bassett Creek administrator and recording administrator; conference call with BCWMC Chair, administrator, and recording administrator regarding meeting agenda; communications with administrator and recording administrator; internal meetings regarding agenda, to-do list and meeting packet and April, 2011 meeting; prepared permit figures.

Leonard J. Kremer, Principal Engineer/Scientist 1.0 hours @ \$160.00 per hour\$	160.00
James P. Herbert, Principal Engineer/Scientist 12.3 hours @ \$145.00 per hour\$	1,783.50
Karen L. Chandler, Engineer/Scientist/Specialist III 11.3 hours @ \$145.00 per hour	1,638.50
Subtotal, Monthly Meeting Preparation\$	3,582.00

TAC MEETING PREPARATION

Preparation for April, 2011 TAC meeting including coordination with administrator and internal staff regarding TAC meeting agenda and background materials; review of city CIP submissions, and calls from city staff; reviewed and revised draft TAC memo; communication with administrator regarding TAC meeting agenda; reviewed/edited memo to TAC regarding Sweeney and Twin Lakes monitoring.

Leonard J. Kremer, Principal Engineer/Scientist 1.0 hours @ \$160.00 per hour	.\$	160.00
Karen L. Chandler, Engineer/Scientist/Specialist III 3.3 hours @ \$145.00 per hour	.\$_	478.50
Subtotal, TAC Meeting Preparation		638.50
Subtotal Technical Services		13,026.06
PLAT REVIEW		
Note: Projects in Bold have provided review fees to offset review costs. Project either in a preliminary stage or were submitted prior to implementation of the fe		
Co.Rd. 9 & 61 Erosion Repair		
Erosion control inspection.		
Technicians/Administrative	. <u>\$</u>	102.00
Subtotal, Co. Rd. 9 & 61 Erosion Repair	. \$	102.00
Zero Max		
Erosion control inspection.		
Technicians/Administrative	. <u>\$</u>	42.50
Subtotal, Zero Max	. \$	42.50
<u> Hennepin Co. Regional Trail – Ph 2</u>		
Erosion control inspection.		
Technicians/Administrative	. <u>\$</u>	102.00
Subtotal, Hennepin Co. Regional Trail – Ph. 2	. \$	102.00
Beacon Academy		
Erosion control inspection.		
Technicians/Administrative	. <u>\$</u> _	42.50
Subtotal, Beacon Academy	. \$	42.50
CSAH 73/Frontage Rd Reconstruction		ě
Erosion control inspection.		
Technicians/Administrative	. <u>\$</u> _	102.00
Subtotal, CSAH 73/Frontage Rd Recon	. \$	102.00
Wast Madiaina Laka Bark Sita Imp		

West Medicine Lake Park Site Imp.

Erosion control inspection.

Technicians/Administrative <u>\$</u>	1	02.00
Subtotal, W Medicine Lk Pk Site Imp\$	1	02.00
Timber Creek		
Erosion control inspection.		
Technicians/Administrative <u>\$</u>	1	02.00
Subtotal, Timber Creek\$	1	02.00
Laurel Hills Condo		
Erosion control inspection.		
Technicians/Administrative <u>\$</u>		51.00
Subtotal, Laurel Hills Condo\$		51.00
South Shore Drive Bridge Reconstruction & South Shore Drive Mill & Overla	ıy	
Erosion control inspection.		
Technicians/Administrative <u>\$</u>	1	02.00
Subtotal, So Shore Dr Reconstruction/Bridge\$	1	02.00
Golden Valley 2010 Pavement Mgmt Proj		
Erosion control inspection.		
Technicians/Administrative\$	1	02.00
Subtotal, GV 2010 Pavement Mgmt Proj\$	1	02.00
Wirth Park Pedestrian Bridge		
Erosion control inspection.		
Technicians/Administrative <u>\$</u>	1	02.00
Subtotal, Wirth Park Pedestrian Bridge\$	1	02.00
Hilde Performance Center		
Erosion control inspection.		
Technicians/Administrative <u>\$</u>	1	19.00
Subtotal, Hilde Performance Center\$	1	19.00
Auer Steel		
Erosion control inspection.		
Technicians/Administrative <u>\$</u>		68.00
Subtotal, Auer Steel\$		68.00

Plymouth Covenant Church Parking Improvements	
Erosion control inspection.	
Technicians/Administrative\$	76.50
Subtotal, Plymouth Covenant Church Parking Improvements\$	76.50
Walgreens Construction	
Erosion control inspection.	
Technicians/Administrative <u>\$</u>	85.00
Subtotal, Walgreens Construction\$	85.00
Plymouth Creek Park Hockey Rink Project	
Erosion control inspection.	
Technicians/Administrative <u>\$</u>	85.00
Subtotal, Plymouth Creek Pk Hockey Rink Project\$	85.00
Menards Golden Valley	
Erosion control inspection.	
Technicians/Administrative <u>\$</u>	119.00
Subtotal, Menards Golden Valley\$	119.00
Wirth Lake 2010 Site Improvements	
Communications with applicant and City staff; reviewed revised Phase II plans and approval letter to the City of Golden Valley.	prepared
James P. Herbert, Principal Engineer/Scientist 1.5 hours @ \$145.00 per hour\$	217.50
Technicians/Administrative <u>\$</u>	102.00
Subtotal, Wirth Lake 2010 Site Impr\$	319.50
2011 Golden Valley PMP	
Erosion control inspection.	
Technicians/Administrative <u>\$</u>	42.50
Subtotal, 2011 Golden Valley PMP\$	42.50

GV Little League BB Fields

Communication with applicant and city staff; reviewed park construction plans; prepared letter of approval to the City of Golden Valley.

James P. Herbert, Principal Engineer/Scientist 1.2 hours @ \$145.00 per hour\$	174.00
Rita A. Weaver, Engineer/Scientist/Specialist III 0.8 hours @ \$105.00 per hour	84.00
Subtotal, GV Little League BB Fields\$	258.00

Venture Bank

Communication with applicant and city staff; reviewed revised grading, drainage and erosion control plans, reviewed sand filter; prepared comments to applicant; follow-up correspondence with applicant.

James P. Herbert, Principal Engineer/Scientist 3.4 hours @ \$145.00 per hour\$	493.00
Rita A. Weaver, Engineer/Scientist/Specialist III 0.4 hours @ \$105.00 per hour	42.00
Subtotal, Venture Bank\$	535.00

Plymouth Business Center Parking

Telephone conversations and emails with applicant and city staff; reviewed revised grading, drainage and erosion control plans, reviewed filtration system requirements; prepared letter of approval to the City of Plymouth.

James P. Herbert, Principal Engineer/Scientist 2.3 hours @ \$145.00 per hour\$	333.50
Rita A. Weaver, Engineer/Scientist/Specialist III 4.0 hours @ \$105.00 per hour	420.00
Subtotal, Plymouth Business Center Parking\$	753.50

Wayzata East Middle School

Telephone conversations and emails with applicant and city staff; reviewed grading, drainage and erosion control plans, prepared letter of recommendation to the City of Plymouth.

James P. Herbert, Principal Engineer/Scientist 1.5 hours @ \$145.00 per hour\$	217.50
Rita A. Weaver, Engineer/Scientist/Specialist III 3.8 hours @ \$105.00 per hour	399.00
Subtotal, Wayzata East Middle School\$	616.50

Tennant Co. Site Improvements

Reviewed preliminary total phosphorus calculations for proposed BMP.

Rita A. Weaver, Engineer/Scientist/Specialist III 0.7 hours @ \$105.00 per hour\$	3 73	.50
Subtotal, Tennant Co. Site Improvements\$		2.50
Hennepin County Interchange		
Attended meeting and coordination regarding proposed Hennepin County interch	ange proje	ect.
Leonard J. Kremer, Principal Engineer/Scientist		
3.5 hours @ \$160.00 per hour	560	.00
Expenses (Mileage)	3 21	.42
Subtotal, Hennepin County Interchange\$	581	.42
165 Glenwood Avenue Drainage Study (BCWMC to bill City of Minneapolis)		
Telephone conversations and emails with city staff; reviewed data and prepared herepared letter to City of Minneapolis.	ıydraulicı	model;
Leonard J. Kremer, Principal Engineer/Scientist 1.3 hours @ \$160.00 per hour\$	S 208	3.00
Rita A. Weaver, Engineer/Scientist/Specialist III 8.6 hours @ \$105.00 per hour\$	903	.00
Technicians/Administrative	3 264	.50
Subtotal, 165 Glenwood Ave Drainage Study\$	3 1,375	5.50
Zachary Park Hockey Rink		
Telephone conversations and emails with applicant and city staff; reviewed gradi erosion control plans, reviewed filtration system requirements; prepared draft lett recommendation; reviewed follow-up correspondence with applicant.		nge and
James P. Herbert, Principal Engineer/Scientist 3.4 hours @ \$145.00 per hour\$	s 493	.00
Rita A. Weaver, Engineer/Scientist/Specialist III 4.8 hours @ \$105.00 per hour\$	504	.00
Subtotal, Zachary Park Hockey Rink\$	3 997	7.00
Subtotal Plat Review	7,056	5.92
COMMISSION MEETINGS		
Attended April 21, 2011 BCWMC meeting.		
Leonard J. Kremer, Principal Engineer/Scientist 1.0 hours @ \$160.00 per hour	S 160	0.00

Karen L. Chandler, Engineer/Scientist/Specialist III	
3.5 hours @ \$145.00 per hour\$	507.50
Expenses (Mileage) <u>\$</u>	12.24
Subtotal, Commission Meetings\$	679.74
WATER QUALITY MONITORING	
Coordinate preparation of macrophyte base maps for Crane Lake and Westwood I budget estimate for 2012 Biotic Index Monitoring Program and 2012 Sweeney/Typerformed 2011 ice-out monitoring at Crane Lake and Westwood Lake.	
James P. Herbert, Principal Engineer/Scientist 0.4 hours @ \$145.00 per hour\$	58.00
Margaret R. Rattei, Senior Consultant 5.5 hours @ \$115.00 per hour\$	632.50
Kelly A. Carpenter, Engineer/Scientist/Specialist I 5.6 hours @ \$65.00 per hour\$	364.00
Technicians/Administrative <u>\$</u>	603.00
Subtotal, Water Quality Monitoring\$	1,657.50
WATER QUANTITY	
Measured and reviewed lake level elevations as part of the lake-gauging program; new benchmark for Crane Lake.	surveyed and set
Technicians/Administrative\$	2,148.00
Expenses (Mileage/2WD Field Vehicle) <u>\$</u>	136.86
Subtotal, Water Quantity\$	2,284.86
WATERSHED INSPECTION	
Performed watershed erosion control inspections; preparation and distribution of performed inspection of Wirth Lake outlet.	inspection letters;
James P. Herbert, Principal Engineer/Scientist 2.2 hours @ \$145.00 per hour\$	319.00

Technicians/Administrative.....\$

Expenses (Mileage).....

Subtotal, Watershed Inspection\$

TOTAL ENGINEERING......\$ 25,681.03

493.00

163.95 975.95

SECRETARIAL SERVICES

SECRETARIAL SERVICES EXPENSES

Administrative expenses requested by Amy Herbert including: copies, color copies for meeting packet; postage, CD duplication, video digital capture/conversion and BCWMC meeting catering; packet assembly; report assembly.

TOTAL SECRETARIAL SERVICES EXPENSES\$	966.49
Catering (BCWMC)	-0-
Expenses (B&W/color copies/postage)\$	886.49
Technicians/Administrative\$	80.00

ANNUAL REPORT

ANNUAL REPORT

Prepare table of all developments reviewed at BCWMC meeting and provide to administrator; prepare summary of water quality data and programs for Annual Report as requested by administrator; coordination with administrator and review of report.

Review/edit draft 2010 annual report

TOTAL ANNUAL REPORT	\$ 924.50
Technicians/Administrative	\$ 40.00
Margaret R. Rattei, Senior Consultant 2.9 hours @ \$115.00 per hour	\$ 333.50
Karen L. Chandler, Engineer/Scientist/Specialist III 1.1 hours @ \$145.00 per hour	\$ 159.50
James P. Herbert, Principal Engineer/Scientist 2.7 hours @ \$145.00 per hour	\$ 391.50

WATERSHED OUTLET MONITORING PROGRAM (WOMP)

Coordination with Met Council staff regarding preparation of WOMP data files for feasibility study.

Christopher J. Bonick, Engineer/Scientist/Specialist II	
1.5 hours @ \$105.00 per hour\$	157.50
Subtotal, Watershed Outlet Monitoring Program\$	157.50
TOTAL WOMP \$	157 50

CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)

PLYMOUTH CREEK RESTORATION PROJECT (2010 CR)

Review BCWMC agreement with Plymouth; reviewed Plymouth reimbursement submittal, prepared summary report and distributed to administrator and City of Plymouth.

summary report and distributed to administrator and City of Plymouth.	
James P. Herbert, Principal Engineer/Scientist 3.0 hours @ \$145.00 per hour\$	435.00
Karen L. Chandler, Engineer/Scientist/Specialist III 0.9 hours @ \$145.00 per hour	130.50
Subtotal, Plymouth Crk Restoration Project\$	565.50
CRYSTAL-REGENT AVENUE (2010 CR)	
Reviewed contract amendments.	
Karen L. Chandler, Engineer/Scientist/Specialist III 0.3 hours @ \$145.00 per hour	43.50
Subtotal, Crystal-Regent Avenue\$	43.50
WIRTH LAKE OUTLET MODIFICATION (WTH-4)	
Communication with administrator and technical assistance.	
Timothy P. Brown, Engineer/Scientist/Specialist II 0.7 hours @ \$115.00 per hour\$	80.50
Subtotal, Wirth Lake Outlet Modification\$	80.50
WIRTH LAKE OUTLET MODIFICATION – FEASIBILITY STUDY (WTH-4)	
WIRTH LAKE OUTLET MODIFICATION – FEASIBILITY STUDY (WTH-4) Preparation of outlet study.	
	500.00
Preparation of outlet study. Richard Ver Strate, Engineer/Scientist/Specialist III	500.00 1,518.00
Preparation of outlet study. Richard Ver Strate, Engineer/Scientist/Specialist III 4.0 hours @ \$125.00 per hour\$ Timothy P. Brown, Engineer/Scientist/Specialist II	
Preparation of outlet study. Richard Ver Strate, Engineer/Scientist/Specialist III 4.0 hours @ \$125.00 per hour	1,518.00

IRVING AVE (CONDUIT ENTRANCE) TO GOLDEN VALLEY RD - FEAS. STUDY (2012 CR)

Coordination and several internal meetings with project team; internal meeting to review Phase I environmental study status and perform Phase II environmental investigation scoping and planning; development of target property GIS figures; development of creek centerline, prepared GIS figures; researched utility data and prepared figure; coordination with Hennepin County regarding parcel data; set-up Phase I report and Appendices; coordination regarding wetland delineation and

permitting; preparation and meeting with Corps of Engineers in St Paul; developed GIS figure showing historical review maps and prepared target boundary parcel counts for Phase 1 assessment; processed GPS photos; reviewed historical photos/maps between Cedar Lake Road and Penn Ave.; setup and attended utility meeting; setup and attended project safety meeting; prepared soil boring location figures; performed wetland delineations and field site assessment.

Daniel J. Fetter, Principal Engineer/Scientist 5.1 hours @ \$180.00 per hour\$	918.00
Thomas D. Mattison, Principal Engineer/Scientist 0.5 hours @ \$180.00 per hour\$	90.00
Jeffrey T. Lee, Engineer/Scientist/Specialist III 0.9 hours @ \$130.00 per hour\$	117.00
Timothy P. Brown, Engineer/Scientist/Specialist II 43.6 hours @ \$115.00 per hour\$	5,014.00
Mary C. Finch, Engineer/Scientist/Specialist II 46.6 hours @ \$115.00 per hour\$	5,359.00
Daniel M. Tix, Engineer/Scientist/Specialist II 11.3 hours @ \$95.00 per hour\$	1,073.50
Karen S. Wold, Engineer/Scientist/Specialist II 21.0 hours @ \$95.00 per hour\$	1,995.00
Jeffrey D. Weiss, Engineer/Scientist/Specialist II 18.7 hours @ \$100.00 per hour\$	1,870.00
Marcus D. Bush, Engineer/Scientist/Specialist I 18.9 hours @ \$65.00 per hour\$	1,228.50
Marcus D. Bush, Engineer/Scientist/Specialist I 19.2 hours @ \$75.00 per hour\$	1,440.00
Michael D. Dupay, Engineer/Scientist/Specialist I 1.0 hours @ \$90.00 per hour\$	90.00
Lauren M. Larkin, Engineer/Scientist/Specialist I 18.8 hours @ \$75.00 per hour\$	1,410.00
James J. Lind, Engineer/Scientist/Specialist I 14.2 hours @ \$70.00 per hour\$	994.00
Eric C. Lund, Engineer/Scientist/Specialist I 7.0 hours @ \$90.00 per hour\$	630.00
Michael B. Strong, Engineer/Scientist/Specialist I 0.2 hours @ \$75.00 per hour\$	15.00
Technicians/Administrative\$	192.50
Expenses (2WD Vehicle/Mileage/GPS/Copies/Binding)\$	161.50
Subtotal, Irving Avenue to Golden Valley Rd (Feasibility)\$	22,598.00

SCHAPER POND ENHANCEMENT - FEASIBILITY STUDY (SL-1)

Coordination and internal meeting with project team regarding preliminary preparation for feasibility study; equipment preparation site visits to review monitoring site and equipment needs for installing storage shelter and sampling equipment.

TOTAL CAPITAL IMPROVEMENT PROJECTS (Tax Levy)\$	26,308.90
Subtotal, Schaper Pond Enhancement (Feasibility)\$	941.90
Expenses (2WD Vehicle/Mileage)	42.90
Technicians/Administrative\$	576.00
Gregory D. Fransen, Engineer/Scientist/Specialist I 3.0 hours @ \$85.00 per hour\$	255.00
Keith M. Pilgrim, Engineer/Scientist/Specialist III 0.3 hours @ \$130.00 per hour\$	39.00
James P. Herbert, Principal Engineer/Scientist 0.2 hours @ \$145.00 per hour\$	29.00

TMDL STUDIES

SWEENEY LAKE TMDL

Reviewed TMDL comments; planning for in-lake monitoring needs for TMDL implementation reporting; addressed MPCA and DNR comments on the Sweeney Lake TMDL and provided comments to Golden Valley and SEH staff; coordination with administrator and Golden Valley staff.

Leonard J. Kremer, Principal Engineer/Scientist 2.3 hours @ \$160.00 per hour\$	368.00
Karen L. Chandler, Engineer/Scientist/Specialist III 0.4 hours @ \$145.00 per hour\$	58.00
Keith M. Pilgrim, Engineer/Scientist/Specialist III 2.0 hours @ \$130.00 per hour	260.00
Subtotal, Sweeney Lake TMDL\$	686.00
TOTAL TMDL STUDIES\$	686.00

SUMMARY TOTALS

Total Engineering\$	25,681.03
Total Secretarial Services Expenses\$	966.49
Total WOMP\$	157.50
Total Annual Report\$	924.50
Total Capital Improvement Projects (Tax Levy)\$	26,308.90
Total Capital Improvement Projects (Maintenance Funds)\$	0.00
Total TMDL Studies	686.00
TOTAL PAYABLE\$	54,724.42

Barr declares under the penalties of law that this account, claim or demand is just and that no part of it has been paid.

Leonard J. Kremer

Bassett Creek Water Management Commission 2011 Engineering and Planning Summary

Description	Previous Totals		3/26/2011 4/29/2011		New Totals		Budget		Balance (over) / under	
ENGINEERING										
Technical Services	\$ 22,548.50	\$	13,026.06	\$	35,574.56	\$	110,000.00	\$	74,425.44	
Plat Review [3]	\$ 9,218.00	\$	7,056.92	\$	16,274.92	\$	50,000.00	\$	33,725.08	
Technical Services/Plat Review Subtotal	\$ 31,766.50	\$	20,082.98	\$	51,849.48	\$	160,000.00	\$	108,150.52	
Commission & TAC Meetings	\$ 2,039.67	\$	679.74	\$	2,719.41	\$	13,000.00	\$	10,280.59	
Surveys & Studies	\$ 4,171.00	\$	-	\$	4,171.00	\$	20,000.00	\$	15,829.00	
Water Quality/Monitoring	\$ 3,580.50	\$	1,657.50	\$	5,238.00	\$	34,000.00	\$	28,762.00	
Water Quantity	\$ 474.02	\$	2,284.86	\$	2,758.88	\$	11,000.00	\$	8,241.12	
Watershed Inspections	\$ _	\$	975.95	\$	975.95	\$	8,000.00	\$	7,024.05	
Annual Flood Control Project Inspections	\$ 2,291.19	\$	-	\$	2,291.19	\$	10,000.00	\$	7,708.81	
Review Municipal Plans	\$ -	\$	-	\$	-	\$	2,000.00	\$	2,000.00	
Engineering Subtotal	\$ 44,322.88	\$	25,681.03	\$	70,003.91	\$	258,000.00	\$	187,996.09	

	Previous	3/26/2011							Balance	
Description	Totals	4	1/29/2011	١	New Totals		Budget	(0)	ver) / under	
Annual Report	\$ -	\$	924.50	\$	924.50	\$	2,000.00	\$	1,075.50	
Website	\$ -	\$	-	\$	_	\$	4,500.00	\$	4,500.00	
WOMP (MCES/MPRB)	\$ -	\$	157.50	\$	157.50	\$	10,000.00	\$	9,842.50	
Secretarial Services & Expenses [1]	\$ 723.08	\$	966.49	\$	1,689.57	\$	_	\$	(1,689.57)	
Public Communications	\$ -	\$	-	\$	-	\$	3,000.00	\$	3,000.00	
Education and Public Outreach	\$ -	\$	-	\$	-	\$	2,900.00	\$	2,900.00	
Erosion/Sediment (Channel Maintenance)	\$ -	\$	_	\$	-	\$	25,000.00	\$	25,000.00	
Long-Term Maintenance(Flood Control Proj)	\$ _	\$	-	\$	-	\$	25,000.00	\$	25,000.00	
Special Projects	\$ -	\$	-	\$	-	\$		\$	-	
CAPITAL IMPROVEMENT PROJECTS [2]						,		,		
Crystal-Regent Avenue (2010 CR)	\$ 217.50	\$	43.50	\$	261.00	\$	_	\$	(261.00)	
Wisconsin Avenue-Crystal (2011 CR)	\$ 560.00	\$	-	\$	560.00	\$	-	\$	(560.00)	
North Branch (2011 CR-NB)	\$ -	\$	-	\$		\$	_	\$	-	
West Medicine Lake Park Pond (2008-1)	\$ -	\$	-	\$	-	\$	-	\$		
Plymouth Creek Restoration (2010 CR)	\$ 362.50	\$	565.50	\$	928.00			\$	(928.00)	
Resource Management Plan (RMP)	\$ -	\$		\$	-	<u> </u>		\$	-	
Circle Park Pond (PL-6)	\$ -	\$	_	\$	-	<u> </u>		\$	_	
Plymouth Pond NB-07 (NL-2)	\$ 810.25	\$		\$	810.25			\$	(810.25)	
Wirth Lake Outlet Mod. (WTH-4)	\$ 10,318.00	\$	2,160.00	\$	12,478.00				(12,478.00)	
Irving Ave to GV Road (2012 CR)	\$ 12,737.92	_	22,598.00	\$	35,335.92				(35,335.92)	
Twins Stadium	\$ -	\$	-	\$	-			\$	-	
Lakeview Park Pond (ML-8)	\$ 296.50	\$	_	\$	296.50			\$	(296.50)	
Schaper Pond Enhancement (SL-1)	\$ 1,667.00	\$	941.90	\$	2,608.90			\$	(2,608.90)	
CAPITAL IMPROVEMENT PROJECTS [4]	 									
Sweeney Lake Outlet (2012 FC-1)	\$ 1,464.00	\$	-	\$	1,464.00	<u> </u>		\$	(1,464.00)	
TMDL STUDIES										
Watershed-wide TMDL	\$ -	\$	-	\$	_	\$	-	\$	_	
Sweeney Lake	\$ 250.00	\$	686.00	\$	936.00	\$	_	\$	(936.00)	
Biota	\$ -	\$		\$	-	\$	_	\$	-	
Medicine Lake	\$ _	\$	-	\$	-	\$	-	\$	-	
Wirth Lake	\$ -	\$	-	\$	-	\$	-	\$	_	
E-Coli Sampling	\$ _	\$	-	\$	-	\$	-	\$	-	
Subtotal	\$ 11,039.17	<u> </u>	29,043.39	\$	40,082.56	\$	-			
Total	\$ 55,362.05	\$	54,724.42	\$	110,086.47	\$	-	\$	-	

Total Current Invoice:

\$ 54,724.42

^[1] Includes catering, copying, and mailing expenses only requested by Amy Herbert Administrative Services.

^[2] Capital Improvement Projects (CIP) - to be charged to CIP accounts funded by Hennepin County tax levy.

^[3] Funded by permit fees. (Assumed to be \$55,000 by BCWMC.)

^[4] Capital Improvement Projects (CIP) - to be charged to CIP accounts funded by Flood Control Project Long-term Maintenance Funds.



Bassett Creek WMO 7800 Golden Valley Road Golden Valley, MN 55427 Page # 1 Invoice # 23270051-2011-4 Project # 23/27-0051 Client # 59 June 6, 2011

Invoice of Account with BARR ENGINEERING COMPANY

For professional services during the period of April 30, 2011 through May 27, 2011

ENGINEERING

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, administrator, recording administrator, watershed communities, developers in the watershed, Minneapolis Park and Recreation Board (MPRB), Three Rivers Park District (TRPD), Mississippi Watershed Management Organization, Minnesota Department of Transportation (Mn/DOT), Hennepin County, Minnesota Board of Water and Soil Resources (BWSR), Metropolitan Council Environmental Services (MCES), Minnesota Pollution Control Agency (MPCA), Corps of Engineers and interested citizens; coordination with administrator regarding post-meeting tasks; prepared data for budget committee and revised proposed 2012 technical budgets; prepared proposed budget for next generation planning; call from administrator regarding revisions to draft operating budget and budget document; prepared draft 2012 budget writeup for budget committee and spreadsheet for budget committee per administrator request; emailed files to administrator for budget committee meeting; filed historical photos; coordinated with administrator regarding budget issues; coordinated budget issue with deputy treasurer as directed by administrator; meeting with administrator to discuss Sweeney Lake TMDL comments and responses (with Ron Leaf); communications with administrator regarding TMDL implementation reporting; reviewed historical data and sent administrator email about northern pike at Medicine Lake dam; communication with counsel regarding funding options for proposed 2012 modeling projects; communications with counsel regarding use of flood control project funds for planning projects; coordination with administrator regarding tour map, CAMP program/sampling at Sweeney Lake, Twin Lake vegetation removal and lake automatic dataloggers; provided draft tour map and revised map to administrator; coordinated with recording administrator regarding tour invite and map; internal meeting regarding high water levels; internal meeting to discuss water quality trading; meeting with administrator to edit draft policy document; set up two calendars for BCWMC's website and reviewed usernames and customized security for those logins.

Leonard J. Kremer, Principal Engineer/Scientist 7.0 hours @ \$160.00 per hour\$	1,120.00
James P. Herbert, Principal Engineer/Scientist 9.1 hours @ \$145.00 per hour\$	1,319.50
Karen L. Chandler, Engineer/Scientist/Specialist III 33.7 hours @ \$145.00 per hour\$	4,886.50
Timothy J. Anderson, Engineer/Scientist/Specialist III 4.1 hours @ \$145.00 per hour\$	594.50

Daniel R. Petrik, Engineer/Scientist/Specialist II	
4.5 hours @ \$105.00 per hour\$	472.50
Technicians/Administrative <u>\$</u>	2,009.50
Subtotal Technical Services	10.402.50

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Telephone conversations regarding proposed developments; provided watershed hydraulic information, flood profiles and BCWMC development requirements to applicants; reviewed letter regarding Van White Memorial Parkway; telephone call from Plymouth regarding Plymouth channel project; communication with AECOM regarding Bassett Creek WMO requirements; coordination with LHB regarding Golden Valley site

James P. Herbert, Principal Engineer/Scientist	
2.3 hours @ \$145.00 per hour	333.50
Subtotal, Preliminary Site Review/Correspondence\$	333.50

MONTHLY MEETING PREPARATION

Preparation of monthly memorandum for BCWMC meeting; reviewed draft BCWMC meeting minutes, agenda and packet materials and discussed comments with Bassett Creek administrator and recording administrator; conference call with BCWMC Chair, administrator, and recording administrator regarding meeting agenda; communications with administrator and recording administrator; internal meetings regarding agenda, to-do list and meeting packet and May, 2011 meeting; prepared permit figures.

Leonard J. Kremer, Principal Engineer/Scientist 3.5 hours @ \$160.00 per hour\$	560.00
James P. Herbert, Principal Engineer/Scientist 10.9 hours @ \$145.00 per hour\$	1,580.50
Karen L. Chandler, Engineer/Scientist/Specialist III 13.0 hours @ \$145.00 per hour\$	1,885.00
Technicians/Administrative <u>\$</u>	127.50
Subtotal, Monthly Meeting Preparation\$	4,153.00

TAC MEETING PREPARATION

Preparation for May, 2011 TAC meeting including coordination with administrator and internal staff regarding TAC meeting agenda and background materials; prepared email regarding TAC TMDL agenda item and prepared summary of TMDL implementation monitoring for TAC meeting

Leonard J. Kremer, Principal Engineer/Scientist	
2.5 hours @ \$160.00 per hour\$	400.00

Erosion control inspection.

Karen L. Chandler, Engineer/Scientist/Specialist III	Ф	100.50
2.9 hours @ \$145.00 per hour		
Subtotal, TAC Meeting Preparation		820.50
Subtotal Technical Services	. . \$	15,709.50
PLAT REVIEW		
Note: Projects in Bold have provided review fees to offset review costs. Projec either in a preliminary stage or were submitted prior to implementation of the f		
Hennepin Co. Regional Trail – Ph 2		
Erosion control inspection.		
Technicians/Administrative	<u>\$</u>	76.50
Subtotal, Hennepin Co. Regional Trail – Ph. 2	. \$	76.50
Beacon Academy		
Erosion control inspection.		
Technicians/Administrative	<u>\$</u> _	42.50
Subtotal, Beacon Academy	. \$	42.50
CSAH 73/Frontage Rd Reconstruction		
Erosion control inspection.		
Technicians/Administrative	<u>\$</u>	76.50
Subtotal, CSAH 73/Frontage Rd Recon	. \$	76.50
West Medicine Lake Park Site Imp.		
Erosion control inspection.		
Technicians/Administrative	<u>\$</u> _	68.00
Subtotal, W Medicine Lk Pk Site Imp	. \$	68.00
Laurel Hills Condo		
Erosion control inspection.		
Technicians/Administrative	<u>\$</u> _	68.00
Subtotal, Laurel Hills Condo	. \$	68.00
South Shore Drive Bridge Reconstruction & South Shore Drive Mill & Ove	rlay	

Technicians/Administrative\$	68.00
Subtotal, So Shore Dr Reconstruction/Bridge\$	68.00
Hilde Performance Center	
Erosion control inspection.	
Technicians/Administrative\$	102.00
Subtotal, Hilde Performance Center\$	102.00
Glenwood Ponds Direction Bore	
Erosion control inspection.	
Technicians/Administrative\$	51.00
Subtotal, Glenwood Ponds Direction Bore\$	51.00
South Shore Drive Emergency Utility Repair	
Erosion control inspection.	
Technicians/Administrative\$	68.00
Subtotal, So Shore Dr Emergency Utility Repair\$	68.00
General Mills Pedestrian Bridge	
Erosion control inspection.	
Technicians/Administrative\$	68.00
Subtotal, General Mills Pedestrian Bridge\$	68.00
Plymouth Covenant Church Parking Improvements	
Erosion control inspection.	
Technicians/Administrative\$	76.50
Subtotal, Plymouth Covenant Church Parking Improvements\$	76.50
Walgreens Construction	
Erosion control inspection.	
Technicians/Administrative\$	76.50
Subtotal, Walgreens Construction\$	76.50
Plymouth Creek Park Hockey Rink Project	
Erosion control inspection.	
Technicians/Administrative\$	76.50
Subtotal, Plymouth Creek Pk Hockey Rink Project\$	76.50

Menards Golden Valley	
Erosion control inspection.	
Technicians/Administrative\$	119.00
Subtotal, Menards Golden Valley\$	119.00
Wirth Lake 2010 Site Improvements	
Erosion control inspection.	
Technicians/Administrative <u>\$</u>	93.50
Subtotal, Wirth Lake 2010 Site Impr\$	93.50
Venture Bank	
Communication with applicant and city staff; reviewed revised grading, drainage and plans, reviewed revised water quality and sand filter data; prepared letter of approva Golden Valley.	
James P. Herbert, Principal Engineer/Scientist 2.3 hours @ \$145.00 per hour\$	333.50
Rita A. Weaver, Engineer/Scientist/Specialist III 1.2 hours @ \$100.00 per hour\$	120.00
Subtotal, Venture Bank\$	453.50
Plymouth Business Center Parking	
Erosion control inspection.	
Technicians/Administrative\$	68.00
Subtotal, Plymouth Business Center Parking\$	68.00
Wayzata East Middle School Erosion control inspection.	
Technicians/Administrative <u>\$</u>	68.00
Subtotal, Wayzata East Middle School\$	68.00
Tennant Co. Site Improvements	
Telephone conversation with LHB regarding Tennant site and proposed BMPs.	
James P. Herbert, Principal Engineer/Scientist 0.7 hours @ \$145.00 per hour <u>\$</u>	101.50
Subtotal, Tennant Co. Site Improvements\$	101.50

165 Glenwood Avenue Drainage Study

Telephone conversations and emails with city staff; reviewed data and prepared hydraulic model; prepared letter to City of Minneapolis.

James P. Herbert, Principal Engineer/Scientist	
1.0 hours @ \$145.00 per hour <u>\$</u>	145.00
Subtotal, 165 Glenwood Ave Drainage Study\$	145.00

Zachary Park Hockey Rink

Telephone conversations and emails with applicant and city staff; reviewed revised grading, drainage and erosion control plans, reviewed revised filtration system design; prepared letter of approval to City of Plymouth.

James P. Herbert, Principal Engineer/Scientist	
3.7 hours @ \$145.00 per hour\$	536.50
Rita A. Weaver, Engineer/Scientist/Specialist III	
5.1 hours @ \$105.00 per hour\$	510.00
Technicians/Administrative	42.50
Subtotal, Zachary Park Hockey Rink\$	1,089.00

St. Louis Park Street Reconstruction

Telephone conversations and emails with city staff; reviewed street reconstruction plans; prepared letter of recommendation to City of St. Louis Park.

James P. Herbert, Principal Engineer/Scientist	
1.5 hours @ \$145.00 per hour <u>\$</u>	217.50
Subtotal, St. Louis Park Street Reconstruction\$	217.50

Annapolis Lane Reconstruction

Telephone conversations and emails with city staff; reviewed street reconstruction plans; prepared letter of recommendation to City of Plymouth.

435.00
435.00
3,708.00

Leonard J. Kremer, Principal Engineer/Scientist	
3.5 hours @ \$160.00 per hour\$	560.00

Karen L. Chandler, Engineer/Scientist/Specialist III	
4.2 hours @ \$145.00 per hour\$	609.00
Expenses (Mileage)	12.24
Subtotal, Commission Meetings\$	1,181.24

SURVEYS AND STUDIES

Reviewed WTH-1, 2 CIP project background (Wirth Lake west basin) and attended meeting with MPRB and City of Golden Valley staff regarding failed outlet structure, obtained photos of Wirth Lake basin outlet structure, reviewed BCWMC CIP agreement, reviewed Wirth Lake west basin culvert repair drawing and prepared comments, internal meetings to review information. Reviewed installation of lake level data loggers for potential continuous lake level monitoring per direction of administrator and conference call with administrator. Call from administrator and internal discussions regarding alum treatment recommendation. Development of a recommendation letter for Sweeney/Twin Lake.

Leonard J. Kremer, Principal Engineer/Scientist 8.9 hours @ \$160.00 per hour\$	1,424.00
James P. Herbert, Principal Engineer/Scientist 3.5 hours @ \$145.00 per hour\$	507.50
Karen L. Chandler, Engineer/Scientist/Specialist III 6.9 hours @ \$145.00 per hour\$	1,000.50
Gregory J. Wilson, Engineer/Scientist/Specialist III 0.8 hours @ \$140.00 per hour\$	112.00
Keith M. Pilgrim, Engineer/Scientist/Specialist III 5.5 hours @ \$125.00 per hour\$	687.50
Kevin D. Menken, Engineer/Scientist/Specialist II 2.8 hours @ \$110.00 per hour\$	308.00
Technicians/Administrative\$	394.50
Expenses (Mileage/Equipment)	45.96
Subtotal, Surveys and Studies\$	4,479.96

WATER QUALITY MONITORING

Coordinated monitoring and prepared macrophyte base maps for Crane Lake and Westwood Lake; performed 2011monitoring at Crane Lake and Westwood Lake; preparation for aquatic plant survey.

Henry M. Runke Principal Engineer/Scientist		
1.0 hours @ \$165.00 per hour	.\$	165.00
Technicians/Administrative	.\$	112.00
Expenses (Braun Intertec/2WD field vehicle/mileage/		
canoe/turbidimeter/WQ meter)	\$	446.13
Subtotal, Water Quality Monitoring	\$	723.13

WATER QUANTITY

Measured and reviewed lake level elevations as part of the lake-gauging program; surveyed and set new benchmark for Crane Lake.

James P. Herbert, Principal Engineer/Scientist	
1.0 hours @ \$145.00 per hour\$	145.00
Technicians/Administrative\$	790.50
Expenses (Mileage/2WD Field Vehicle)\$	99.06
Subtotal, Water Quantity\$	1,034.56

WATERSHED INSPECTION

Performed watershed erosion control inspections; preparation and distribution of inspection letters.

James P. Herbert, Principal Engineer/Scientist	
0.8 hours @ \$145.00 per hour\$	116.00
Technicians/Administrative\$	501.50
Expenses (Mileage/2WD Field Vehicle)	162.93
Subtotal, Watershed Inspection\$	780.43
TOTAL ENGINEERING\$	27,616.82

SECRETARIAL SERVICES

SECRETARIAL SERVICES EXPENSES

Administrative expenses requested by Amy Herbert including: copies, color copies for meeting packet; postage, CD duplication, video digital capture/conversion and BCWMC meeting catering; packet assembly; report assembly.

Expenses (B&W/color copies/postage)	\$	233.49
Catering (BCWMC)	<u>\$</u>	-0-
TOTAL SECRETARIAL SERVICES EXPENSES	•	233.49

ANNUAL REPORT

ANNUAL REPORT

Final preparation and copying of 2010 annual report.

TOTAL ANNUAL REPORT\$	398.00
Expenses (B&W/color copies/binding)\$	305.50
Technicians/Administrative\$	92.50

WATERSHED	OUTLET	MONITORING	PROGRAM	(WOMP)
		1.101.110111.0		(' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '

Coordination with Met Council staff; review of WOMP station rating curve.

Christopher J	. Bonick.	Engineer/Scie	ntist/Specialist II
Ominoto piner t			IIIII O O D O O I COLLEGE AL

2.0 hours @ \$105.00 per hour	210.00
Subtotal, Watershed Outlet Monitoring Program\$	210.00

TOTAL WOMP.....\$ 210.00

CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)

WISCONSIN AVENUE - CRYSTAL (2011 CR)

Review of 2010 draft report; preparation of GIS figures and updates to figures and cost estimates; compared cost estimates to recent similar projects.

Amy R. M	Aikus.	Engineer/Scientist/Sp	pecialist I
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24.5 hours @ \$80.00 per hour	§ 1,960.00
_ · · · · · · · · · · · · · · · · · · ·	

Subtotal, Wisconsin Avenue - Crystal\$ 1,960.00

WIRTH LAKE OUTLET MODIFICATION (WTH-4)

Communication with Golden Valley staff; attended site meeting at Inver Grove Heights to review installation of recommended valve.

James	Ρ.	Herbert.	Principal	l Engineer.	Scientist

0.5 hours @ \$145.00 per hour\$	72.50
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Timothy P. Brown, Engineer/Scientist/Specialist II

3.6 hours @ \$115.00 per hour <u>\$ 414.00</u>
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Subtotal, Wirth Lake Outlet Modification\$ 486.50

WIRTH LAKE OUTLET MODIFICATION - FEASIBILITY STUDY (WTH-4)

Coordination and discussion with Golden Valley staff; prepared final report and figures.

T T	TT 1 .	D ' 1	- ·	10
Inmac D	Harhart	Uringingl	Hnamaar	·/Voiontict
Jaimes I.	TICIDOIL.	1 i incibai	LIEURINGE	/Scientist

Timothy P. Brown, Engineer/Scientist/Specialist II

12.0 hours @ \$115.00 per hour	5 1,380.00
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Subtotal, Wirth Lake Outlet Modification (Feasibility)\$ 1,641.00

IRVING AVE (CONDUIT ENTR) TO GOLDEN VALLEY RD (2012 CR)

Coordination regarding CIP and major plan amendment and schedule/process; communication with BWSR staff regarding major plan amendment and county review/approval process; prepared memo regarding plan amendment schedule for May meeting packet; call to Joel Settles regarding County/Commission/ BWSR schedules.

Karen L. Chandler, Engineer/Scientist/Specialist III	
5.0 hours @ \$145.00 per hour	\$ 725.00
Subtotal, Irving Avenue to Golden Valley Rd (Admin)	\$ 725.00

IRVING AVE (CONDUIT ENTRANCE) TO GOLDEN VALLEY RD - FEAS. STUDY (2012 CR)

Coordination and several internal meetings with project team; internal meeting to review Phase I environmental study status and perform Phase II environmental investigation scoping and planning; prepared, updated and finalized GIS figures 1-8 for phase 1 report, prepared parcel table for phase 1 report; digitized additional environmental sites; performed site visit and prepared site visit notes; completed Appendix A with site visit and photo log; performed Phase 1 interviews; reviewed background property info; site meeting at Fruen Mill; prepared draft report; prepared draft wetland delineation and MNRAM report.

Daniel J. Fetter, Principal Engineer/Scientist 4.0 hours @ \$180.00 per hour\$	720.00
James P. Herbert, Principal Engineer/Scientist 1.5 hours @ \$145.00 per hour\$	217.50
Karen L. Chandler, Engineer/Scientist/Specialist III 3.2 hours @ \$145.00 per hour\$	464.00
Scott A. Sobiech, Engineer/Scientist/Specialist III 0.5 hours @ \$140.00 per hour\$	70.00
Jeffrey T. Lee, Engineer/Scientist/Specialist III 0.5 hours @ \$130.00 per hour\$	65.00
Timothy P. Brown, Engineer/Scientist/Specialist II 45.5 hours @ \$115.00 per hour\$	5,232.50
Mary C. Finch, Engineer/Scientist/Specialist II 13.7 hours @ \$115.00 per hour\$	1,575.50
Daniel M. Tix, Engineer/Scientist/Specialist II 12.7 hours @ \$95.00 per hour\$	1,206.50
Karen S. Wold, Engineer/Scientist/Specialist II 39.1 hours @ \$95.00 per hour\$	3,714.50
Jeffrey D. Weiss, Engineer/Scientist/Specialist II 30.0 hours @ \$100.00 per hour\$	3,000.00
Marcus D. Bush, Engineer/Scientist/Specialist I 0.5 hours @ \$65.00 per hour\$	32.50
Lauren M. Larkin, Engineer/Scientist/Specialist I 5.1 hours @ \$75.00 per hour\$	382.50
James J. Lind, Engineer/Scientist/Specialist I 7.8 hours @ \$70.00 per hour\$	546.00
Eric C. Lund, Engineer/Scientist/Specialist I 3.0 hours @ \$90.00 per hour\$	270.00

Michael B. Strong, Engineer/Scientist/Specialist I 0.7 hours @ \$75.00 per hour\$	52.50
Amanda Bohnenblust, Engineer/Scientist/Specialist I 4.0 hours @ \$85.00 per hour\$	340.00
Melissa A. Maxa, Engineer/Scientist/Specialist I 7.6 hours @ \$75.00 per hour\$	570.00
Kelly A. Carpenter, Engineer/Scientist/Specialist I 2.0 hours @ \$65.00 per hour\$	130.00
Technicians/Administrative\$	127.50
Expenses (Mileage/Differential & Hand-held GPS System/Hand Auger/Copies) <u>\$</u>	265.48
Subtotal, Irving Avenue to Golden Valley Rd (Feasibility)\$	18,981.98
SCHAPER POND ENHANCEMENT (SL-1)	
Coordination with City of GV staff regarding status of monitoring equipment and s	study.
James P. Herbert, Principal Engineer/Scientist 0.7 hours @ \$145.00 per hour	101.50
Subtotal, Schaper Pond Enhancement (Admin)\$	101.50
SCHAPER POND ENHANCEMENT - FEASIBII ITY STUDY (SL-1)	

SCHAPER POND ENHANCEMENT – FEASIBILITY STUDY (SL-1)

Coordination and internal meetings with project team regarding feasibility study and equipment installation; performed Gopher One-Call ticket to clear utilities; prepared field safety review form and installed fall protection equipment for safe installation; installed two equipment shelters (one inflow site and one outflow site) and installed flow meters/samplers and monitoring supplies; installed shelters and supports for three storm monitoring sites around Schaper Pond and prepared field equipment; performed programming test.

Keith M. Pilgrim, Engineer/Scientist/Specialist III 0.4 hours @ \$125.00 per hour\$	50.00
Gregory D. Fransen, Engineer/Scientist/Specialist I 17.4 hours @ \$85.00 per hour\$	1,479.00
Technicians/Administrative\$	3,386.50
Expenses (2WD Vehicle/Mileage/PVC tubing/Combust Gas Indicator/Confined Space Rescue Retrieve/Generator/Automatic	
Sampler) <u>\$</u>	504.26
Subtotal, Schaper Pond Enhancement (Feasibility)\$	5,419.76
TOTAL CAPITAL IMPROVEMENT PROJECTS (Tax Levy)\$	29,315.74

TMDL STUDIES

SWEENEY LAKE TMDL

Coordination with administrator, Golden Valley and SEH staff; reviewed TMDL comments and developed responses to DNR and MCEA.

Leonard J. Kremer, Principal Engineer/Scientist 9.7 hours @ \$160.00 per hour\$	1,552.00
Keith M. Pilgrim, Engineer/Scientist/Specialist III 3.0 hours @ \$130.00 per hour\$	375.00
Subtotal, Sweeney Lake TMDL\$	1,927.00
TOTAL TMDL STUDIES\$	1,927.00

SUMMARY TOTALS

Total Engineering\$	27,616.82
Total Secretarial Services Expenses\$	233.49
Total WOMP\$	210.00
Total Annual Report\$	398.00
Total Capital Improvement Projects (Tax Levy)\$	29,315.74
Total Capital Improvement Projects (Maintenance Funds)\$	0.00
Total TMDL Studies <u>\$</u>	1,927.00
TOTAL PAYABLE\$	59,701.05

Barr declares under the penalties of law that this account, claim or demand is just and that no part of it has been paid.

Leonard J. Kremer

INVOICE DATE: 6/8/11

Geoff Nash, Watershed Consulting, LLC 6920 Hillcrest Lane Edina, MN 5435 952-925-5119

Client: Bassett Creek Watershed Management Commission

Dates:

May 1 - May 31, 2011

Administrativ
Commission I
Administrativ
Golden Valley
Education/Ou
TAC Meeting/
Budget Comn
Medicine Lk.
Sweeney Lk.
Wirth Lke BN
Wirth Lake BN
Annual Repor
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Major Amend
Third-party m

Printing-black&white (\$0.15/sheet) Printing-color (\$0.50/sheet) Postage (\$0.44 ea.) Office products/ext. copying Mileage (\$0.51/mile) Expenses:	Weekly Hours: Weekly Hours: Monthly Hours: Monthly Charges (at \$47/hr): Actual Hourly Charges: Unbilled Charges:	p.	ation with Public ual indment WMP	oort ation with Commission/Consultants	MDL BWSR Grant Reporting	k. TMDL	ng/Prep. mmittee Meeting/Prep.	Outreach Committee	tive Committee Meeting/Prep.	itive. in Meeting/Prep.	Task/Project
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CIP Tour

Total invoice amount:

\$4,147.15

Expenses:

Watershed Consulting, LLC 6920 Hillcrest Lane Edina, MN 55435 (952) 925-5119 office (952) 240-3025 cell.

See attached Verizion invoices. Note: Current Verizion invoice - original Verzion invoice (\$134.23) = BCWMC monthly billed amount.

Amy Herbert · Virtual Administrator Services

bcra@barr.com · 952-832-2652

June 4, 2011

Bassett Creek Watershed Management Commission (BCWMC) Attn: Sue Virnig, Deputy Treasurer 7800 Golden Valley Road Golden Valley, MN 55427

For contracted services May 1, 2011, through May 31, 2011

Administrative Services to BCWMC

- Organized the May 19th BCWMC packet materials for copying; copied and assembled meeting packets, delivered meeting packets to Barr Engineering mail room for Barr to weigh, add postage, and mail; posted materials online and emailed link to online meeting materials to Commission; e-mailed agenda to agenda list and e-mailed approved meeting minutes to distribution list.
- Maintained BCWMC files; Communicated with BCWMC attorney, engineers, Administrator, Deputy Treasurer, Chair, commissioners, and committee members and performed administrative duties as asked by those parties.
- Organized BCWMC monthly invoices; Distributed invoice payments.
- Finalized invitation and map for June 22nd watershed tour; Mailed and e-mailed the tour invitation to invitees: Transcribed the May 2011 meeting minutes; Distributed BCWMC annual report and audit to BWSR; Distributed hard copies of the BCWMC annual report to the individuals that requested a copy; Prepared the public hearing notice for the BCWMC's June 16th hearing on proposed major plan amendment; E-mailed and mailed the notice (45-day notice) with a cover letter to the City Clerks of the BCWMC member-cities; Arranged for publication of the public hearing notice in the Lakeshore Weekly News, State Register, Finance & Commerce, and the SUN publications; Provided comments to the Administrator regarding 2012 proposed secretarial services; Requested a CD copy of MWMO's Third Generation Plan for Commission files; Prepared resolutions of appreciation for out-going commissioners/ alternate commissioners; Communicated with Administrator Nash, the Commission Attorney, and the CAMP Administrator regarding modifications to the CAMP contract and possible changes to the Commission's 2011 monitoring program; Communicated with Commission Attorney regarding citizen request for copy of May 19th meeting minutes and audio recording; Provided citizen with draft copy of May 19th meeting minutes and arranged to e-mail copy of the audio;
- Created meeting notices for the following meetings: May 16^{th} and June 2^{nd} Budget Committee, the May 24^{th} Education Committee , and the June 2^{nd} TAC
- Web site work: Posted the 2010 lake gauging data; Updated meeting minutes archive, roster, and calendar.

52.00 hours @ \$57.00 per hour

BCWMC Meetings Set up and attended the May 17 th pre-meeting conference call and the May 19 th BCWMC meeting (coordinated room reservations and set up; ordered and received catering; coordinated agenda, prepared and provided handouts not provided in meeting packet; recorded meeting)	
7.0 hours @ \$57.00 per hour	\$399.00
CIP Administrative Services 0.0 hours @ \$57.00 per hour	\$0.00
Annual Report Coordinated with Administrator Nash regarding report production; scheduled report production; distributed report. 2.0 hours @ \$57.00 per hour	
Ermonaga	\$114.00
Expenses	
No May Expenses	\$0
Mileage Roundtrip mileage between Chanhassen and Golden Valley City Hall for May 19 th BCWMC meeting (17.08 miles x 0.51 = \$8.71)	\$8.71_
Subtotal Administrative Services	\$3,371.71
Subtotal Annual Report	\$114.00
Total Current Billing:	\$3,485.71

I declare, under penalty of law, that this account, claim or demand is just and correct and that no part of it has been paid.

Signature of Claimant

ACE Drop-Off Catering

Invoice

VB Box 132 PO Box 9202 Minneapolis, MN 55480-9202 612/238-4016 ahoffer@damico.com

INVOICE # 49330

BILL TO

Barr Engineering Amy Herbert 4700 W 77th Street Edina, MN 55435-4803 SHIP TO

Golden Valley City Hall-2nd Fl-Council Rm 7800 Golden Valley Road Site Contact: Judy N 763/593-3991 P0#23270512008300

952/832-2652 fax: 832-2601

P.O. NU	UMBER TERMS I		DELIVERY DATE	DAY	PPL	DELIVER	YTIME	
see a	see above Due on receipt			6/16/2011	Thursday	17	11 AM (10:	45-11:15)
QUATY	DESCRIPTION					PRICE EA	AMOUNT	

						,	<u> </u>	15 5
QUATY	DESCRIPTION							AMOUNT
17	Cold P	icnic Buffet					9.25	157.25T
17	1	Turkey & Mozzare					0.00	0.00T
	3	Swiss Sandwiche			on Separate	e Tray-with		
	1	rd and Mayo Packe				37 H		0.00
17	1	Chicken Salad witl		•	bbage, Crisp	y Noodles	0.00	0.00T
1 15	1	oney Sesame Dress nal Fresh Fruit	sing o	n the Side			0.00	0.00Т
i .	Potato						0.00	0.001 0.00T
1	1	ed Cookies					0.00	0.001 0.00T
1	Spring						1.00	24.00T
•	"	, water						
	Subtot	al						181.25
	Delive	ry Charge					20.00	20.00T
	Metro	Sales Tax					7.275%	14.64
1	į.						1	1

Picnic	Menus Available!!	Total	\$215.89

***Delivery charges do not include any tip or gratuity to the driver. They are used to defer the additional expense of vehicles, insurance, packaging and other items associated with making a delivery. Please make checks payable to "D'Amico Catering".

Reference the invoice # and delivery date on your check, unless paid by credit card. Thank you for your business.

Agreed to by (customer)_

FINANCE and COMMERCE

SDS-12-2619 P.O. Box 86 Minneapolis, MN 55486-2619

Phone: (612) 333-4244 Fax: (612) 333-3243 Order Date: 5/31/11

Order Number: 22278583

Customer Number: 31001237

Bassett Creek Water Management Commission Attn: Amy Herbert Barr Engineering Co. 4700 West 77th Street Minneapolis, MN 554354803

DATE	REF NUMBER	DE	SCRIPTION		# OF INSERTS	LENGTH/ QUANTITY	AMOUNT
05/31/11	Ord:22278583	PH on June 16, 201 Watershed Manage Finance and Common Public Hearing Publication Dates: Affidavit - Letter Siz	erce 05/31/2011 06/07/2011	nendment to the	2	9.86 2.00	176.52 4.00
		First Insertion: Subsequent Insertion	on(s):	114.11 62.41			
				TOTAL:			180.52

To ensure proper credit to your account, please write your order number on your check.	Order Date 5/31/11	Order Number 22278583
If you have any questions about your account, please contact Accounts Receivable at (612) 584-1521.	Customer Number 31001237	
TERMS - Payments on this order are due on the 10th day of the month following the last publication date.	Total:	180.52

FINANCE and COMMERCE SDS-12-2619 P.O. Box 86 Minneapolis, MN 55486-2619 Bassett Creek Water Management Commission Attn: Amy Herbert Barr Engineering Co. 4700 West 77th Street Minneapolis, MN 554354803

	VISA	AMEX				
			CARD NUMBER		EXPIRATION DATE/	
BILL M	Y ACCO	UNT \$		•	CUSTOMER SIGNATURE	_

State Register

660 Olive Street • St. Paul, MN 55155

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1304

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Commodity Code 023 18 001181 (publishing) 2C30 (advertising)

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(subscriptions)

Object Code GFS:

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Agency Org G02 2520 Аррг

Bill To: BARR ENGINEERING

1

HERBERT, AMY 4700 W 77TH ST

MINNEAPOLIS, MN 55435

Quantity Shipped	Item Number	Description	Price/Per	Amount	
6	13919	Vol 35 No 48 - 5/31/2011	\$13.60	\$81.60	

State Register Affidavit

Subtotal:

\$15.00

\$96.60

Shipping:

\$0.00

INVOICE TOTAL:

\$96.60

Amount Due:

\$15.00

\$96.60

Bassett Crk watershed mgm Amendment plan

> Payment Terms Associate Jean Customer PO# Entry Date 5/31/2011

Order Number Receipt Number 34779 Customer Number 7005297 Ship Via Shipping

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Bassett Creek Watershed Management Commission C/O Barr Engineering Co.

Attn: Amy Herbert 4700 West 77th Street Minneapolis, MN 55435-4803

INVOICE

Terms: Net 30

Finance Charge of 1.5% / Month After 30 Days

Invoice #: 00126164

Invoice Date: 5/30/2011

Fed Tax ID #: 48-1291735

	ALESPERSON	P.O. NUMBER	PAGE #	PLEASE MAKE CHECKS PAYABLE TO:	
	Legals 1 LAKESHORE COMMUNICATIONS, I				
QTY.	ITEM NO.	DESCRIPTION		PRICE DISC % EXTENDE	
1	LN	Legal Notice - 05/31/2011 Lakesho Public Hearing Notice - Watershed Legal Notice - 06/07/2011 Lakesho Public Hearing Notice - Watershed	Management I re Weekly Nev	Plan \$85.80 \$85.5	
		RECEIVE			
			9 8 0		
		FALE SMRESSMENS	ì 6 0 .		
				TOTAL AMOUNT \$171.6 PAYMENTS \$0.6	
				BALANCE DUE \$171.6	
	By Credit Card	l, Call or Fill In Below: () Visa On Card:	() Masterca	ard () American Express () Discov	
	nber:	Exp	iration Date:	/ V-Code (Back of Card):	
Card Num					



3235 Fernbrook Lane Plymouth MN 55447

TO: Amy Herbert

Bassett Creek Watershed Management Commission

c/o Barr Engineering 4700 West 77th Street Minneapolis 55435-4803

June 2, 2011

Re: 2011 WMWA Workshops

Date	Description	Rate	Hours	Amount	Total	Partner's Share
thru Jan 5,	Subcommittee meetings, followup	55.00	12.62	694.10	694.10	
2011	Meetings with and phone calls to collaborators	55.00	11.88	653.40	1,347.50	
	Create collateral materials	50.00	1.00	50.00	1,397.50	279.50
	Received by JASS 3/1/11 #2328					-279.50
7-Feb-11	Subcommittee meetings, followup	55.00	6.97	383.35	383.35	
	Identify and confirm workshop venues	55.00	2.21	121.55	504.90	
	Identify and confirm workshop venues	45.00	0.25	11.25	516.15	
	Develop promotional materials	55.00	2.57	141.35	657.50	
	Develop e-lists, update websites	45.00	8.96	403.20	1,060.70	212.14
	Received by SC 3/25/11 #2329				,	-212.14
1-Mar-11	Subcommittee meetings, followup	55.00	7.73	425.15	425.15	
	Develop promotional materials	55.00	4.79	263.45	688.60	
	Develop e-lists, update websites	45.00	1.42	63.90	752.50	
	Coordinate venue materials, menus	45.00	0.17	7.65	760.15	152.03
	Received by SC 3/25/11 #2329					-152.03
6-Apr-11	Subcommittee meetings, followup	55.00	9.05	497.75	497.75	
•	Develop promotional materials, handouts	55.00	12.01	660.55	1,158.30	
	Coordinate registration,reschedule Workshop 1A	55.00	5.18	284.90	1,443.20	
	Coordinate speakers	55.00	5.50	302.50	1,745.70	
	Administrative support	45.00	15.02	675.90	2,421.60	
	Visit venues, attend Workshop 1B	65.00	14.67	953.55	3,375.15	
	Received by SC 5/6/11 #2340					-954.53
2-Jun-11	Subcommittee meetings, followup	55.00	4.08	224.40	224.40	
	Promotional activities	55.00	3.87	212.85	437.25	
	Workshop development	55.00	22.58	1,241.90	1,679.15	
	Coordinate speakers	55.00	13.75	756.25	2,435.40	
	Administrative support	45.00	17.08	768.60	3,204.00	
	Attend Workshops 2A, 2B, 1A	65.00	31.25	2,031.25	5,235.25	
	Reimbursables - supplies, copies	1.00	511.02	511.02	5,746.27	1,149.25
	Amount payable to SC					869.75
	Total invoiced to date				12,339.77	
	Partner's share to date				2,467.95	
	Received to date				-1,598.20	
	Balance due				869.75	

Order Confirmation

Ms. Amy Herbert

Bassett Creek WMO/Barr Engineering Co.

Trip Number:

2970L

P.O. Number:

952-832-2652

4700 West 77th Stret		Telephone: 952-832-2652 Fax:					
Minneapoli	s, Mn 55435		Group Contact:				
·	•	. Please c	heck the information carefully and	contact us immediately if any change			
or corrections	are needed.						
Date of Trip		Destin	ation				
Wed-Jun 22	2, 2011	Local	Watershed Tour - See Itinerary	Return Date Wed, Jun 22, 2011 Return Time* BB7:00 Pm			
Buses ordered: Bus type: Bus size:	Coach 47	Drop	Point:	* A notation of "BB" in the return time indicated the "Back By" time to the pick up point.			
Passenger cour	nt:		<u>Itinerary</u>				
	Arrive Time	Depart Time					
1st Pickup 3:45 PM Golden Valley City Hall 7800 Golden Valley Road Golden Valley MN Load at:							
2nd Pickup Load at:			Billing Method Credit Approved — Customer will be	e billed. Net 10 days from date of invoice.			

3rd Pickup 4th Pickup **PRICING** I had at: Load at:

\$56.25 Fuel surcharge amount* \$431.25 \$375.00 Total for 1 bus Total fuel surcharge* \$56.25 \$431.25

Price per bus

Total Trip Price \$431.25

\$375.00

• CANCELLATION POLICIES •

OVERNIGHT/OUT-OF-TOWN CHARTERS

Any overnight trips over \$1,000 in value = 10% down to hold bus. Balance due 30 days before departure. Cancellation 29 days or less prior to departure forfeits 100% of prepayment. The amount of this forfeiture can be used as credit on a future trip.

DAY CHARTERS

Cancellations 48 to 72 hours prior to departure forfeits 10% of prepayment. Cancellations 24 to 47 hours prior to departure forfeits \$150 of prepayment. Cancellations within 24 hours of departure forfeits an amount equal to the equivalent of a 3-hr. minimum charge for that bus. Cancellations at the time of arrival of the bus at the designated pick-up point forfeits the entire prepayment.

The information listed above is a confirmation of your charter based upon the information given to us at this time. The actual price will be determined by the actual time and/or mileage used for this charter trip. Any future changes to the pickup or return times, the type of equipment or other changes in the itinerary may change the price for this trip. If a charter customer requests a bus with a VCR and/or DVD, we will, without guarantee of availability or function, use our best efforts to provide one. Drivers will control the use of VCR/DVD's and there will be no charge for their use. * Fuel surcharge is subject to change based on cost of fuel.

THIS CONFIRMATION MUST BE SIGNED, FAXED AND/OR MAILED TO OUR OFFICE FOR FINAL RESERVATION.

Signed	Date

If you are pleased with the service provided by your driver you may provide him/her with a gratuity. They are appreciated. The total trip price does not include driver gratuities.

SUN NEWSPAPERS

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Fax(952) 941-3588

Advertising Invoice and Statement

1| Billing Period 2| Advertiser/Client Name 06/2011 BCWMC AMY HERBERT 23 Total Amount Due *Unapplied Amount 3 Terms of Payment 297.44 DUE UPON RECEIPT 21 Current Net Amount Due 22| 30 Days 60 Days Over 90 Days N/AN/A N/AN/A4 Page Number 5 Billing Date | 6 | Billed Account Number | 7 | Advertiser/Client Number 1 06/09/11 324122 delia. 324122

8 Billed Account Name and Address	
BCWMC AMY HERBERT C/O BARR ENGINEERING	Amount Paid:
4700 W 77TH STREET MINNEAPOLIS MN 55435	Comments:

"In the Community. With the Community. For the Community"

If you would like to pay your account by credit card, please call 952-392-6890.

		Please Return Upper Portion	With Pay	ment			
10 Date	11 Newspaper Reference	12[13[14] Description-Other Comments/Charges	15] 16]	SAU Size Billed Units	17 Times Run 18 Rate	19 Gross Amount	20 Net Amount
10 Date 06/09/11	11 Newspaper Reference 1055127 LEG	BCWMC PLAN AMENDMENT 06/09 A2/SA A3/SA A4/SA INE P2/P0	1X		18 Rate		297.44
		RETURNED CHECKS. REPORT ERRORS WIT					

THERE IS A \$20 CHARGE FOR RETURNED CHECKS. REPORT ERRORS WITHIN 5 DAYS TO INSURE CONSIDERATION. UNPAID BALANCES OVER 30 DAYS OLD INCUR A 1.5% FINANCE CHARGE PER MONTH.

Statement of Account - Aging of Past Due Amounts

Due upon receipt

21 Current Net Amount Due	22 30 Days	60 Days	Over 90 Days	*Unapplied Amount	23 Total Amount Due
			_		
N/A	N/A	N/A	N/A		297.44

SUN NEWSPAPERS

(952) 392-6890

* UNAPPLIED AMOUNTS ARE INCLUDED IN TOTAL AMOUNT DUE

24 Invoice Number	25	Adver	tiser Information		
	1) Billing Period	6 Billed Account Number	7 Advertiser/Client Number	2 Advertiser/Client	Name
1322109	06/2011	324122	324122	BCWMC AMY	HERBERT



Statement of account with Bassett Creek WMO

Mr. Paul Chellsen Supervising Stormwater Technician City of Minneapolis Department of Public Works 309 2nd Avenue South, Room 300X Minneapolis, MN 55401

Regarding: 165 Glenwood Avenue Drainage Study

Barr Engineering Services for the Bassett Creek WMO

Services included: telephone conversations and emails with City staff, reviewed data and prepared hydraulic model; prepared letter to City of Minneapolis.

March 26, 2011 through April 29, 2011

\$ 1,375.50

Total amount due

\$ 1,375.50

Sue Virnig Assistant Treasurer

cc: Ms. Lois Eberhart, City of Minneapolis

Memorandum

To: Bassett Creek Watershed Management Commission

From: Barr Engineering Company

Subject: Item 5– Public Hearing on Major Plan Amendment

BCWMC June 16, 2011 Meeting Agenda

Date: June 7, 2011 **Project:** 23/27-0051

5. Public Hearing on Major Plan Amendment

Recommended/requested Commission actions:

1. Authorize staff to forward the Plan amendment to the Minnesota Board of Water and Soil Resources for approval, contingent upon approval by Hennepin County (expected August 2).

Background

A public hearing will be held to receive public testimony and comments of member cities and the public regarding the BCWMC's proposed major plan amendment to the BCWMC *Watershed Management Plan*. The following draft feasibility reports have been completed and will be provided on the BCWMC Web site for review prior to the meeting:

- "Feasibility Report for the 2012 Bassett Creek Main Stem Restoration Project, Golden Valley Road to Irving Avenue North." The estimated cost of this 2012 CIP project is \$856,000.
- 2. "Feasibility Report for the Wirth Lake Outlet Modification Project." The estimated cost of this 2012 CIP project is \$180,000.
- 3. "Feasibility Report for the Lakeview Park Pond Project." The estimated cost of this 2013 CIP project is \$196,000.

Paper copies of the main body of the text and appendix A photos will be sent to each Commissioner and each TAC member. The complete report and appendixes is available on the BCWMC web site. Alternate Commissioners, and other interested parties may receive a CD or paper copy of the studies, by request, from the Bassett Creek Recording Administrator at bcra@barr.com or at 952-832-2652.

The Commission's February 25, 2011 letter to the Minnesota Board of Water and Soil Resources (BWSR) proposed a major plan amendment to modify the BCWMC Plan to include the above-named projects. As noted last month, the review and comment period for the major plan amendment ended on May 2. Since the only letters received were in support of the amendment (from the Metropolitan Council and BWSR), no formal response was needed. However, BWSR cannot formally approve the plan

To: Bassett Creek Watershed Management Commission

From: Barr Engineering Company

Subject: Item 5– Public Hearing on Major Plan Amendment

BCWMC June 16, 2011 Meeting Agenda

Date: June 7, 2011

Page: 2

amendment until Hennepin County approves it. Hennepin County Board approval is expected on August 2 nd.

Major Plan Amendment Schedule

Following is the schedule for the remainder of the major plan amendment process.

• June 16	At regular meeting, the BCWMC: • Conducts public hearing on plan amendment and hears results of the feasibility studies
	Directs submittal of revised plan amendment to BWSR for final review and approval
• August 2	Expected Hennepin County Board approval of the proposed CIP projects.
• After August 3 and before August 25	BWSR metro subcommittee meeting to consider plan amendment and develop recommendation to full BWSR Board. (BCWMC attendance not likely needed at the committee meeting.)
• August 25	Full BWSR board meeting to review recommendation from BWSR metro subcommittee and approval of the plan amendment.
• September 15	The BCWMC: Conducts 103B.251 public hearing and orders projects Approves tax levy request and certifies levy to Hennepin County Approves contracts with cities to construct the projects

Memorandum

To: Bassett Creek Watershed Management Commission

From: Barr Engineering Co.

Subject: Item 6A—Funding of 2012 Projects

BCWMC June 16, 2011 Meeting Agenda

Date: June 6, 2011

Project: 23270051.31 2011

6A. Funding of 2012 CIP Projects

Recommended/requested Commission actions:

1. Authorize use of Bassett CIP Reserve Funds for Plan Amendments and Feasibility Studies for proposed 2012 Bassett Creek Watershed Commission Projects.

Background

To estimate the status of the Bassett Creek CIP reserve fund, staff first considered the costs of the current proposed projects and the project costs carried over from the previous year (Table 1 below):

Table 1. Funds Needed for CIP Projects

Project	Amount
Main Stem Channel Restoration, 2012, Irving Avenue to Golden Valley	
Road	\$856,000
Wirth Lake Outlet Modification, 2012, Wirth Lake TMDL Implementation	\$180,000
Schaper Park Feasibility Study	\$37,000
Total Funds Needed	\$1,073,000

To determine the availability of CIP Reserve Funds for 2012 projects, staff reviewed the status of the CIP project account to estimate the amount of funds available in the CIP reserve, as summarized in Table 2:

Table 2. Status of CIP Project Account

CIP Projects	Estimated Amount in Reserve
Floodproofing 2003	\$1,775
Medicine Lake - In-Lake Herbicide Treatments 2005, 2006, 2008	\$67,807
Medicine Lake – East Side Ponds 2004	(\$18,314)
Northwood Lake – Water Quality Treatment Ponds 2005	\$29,847
Westwood Lake - Flag Avenue Pond	\$86,135

To: Bassett Creek Watershed Management Commission

From: Barr Engineering Co.

Subject: Item 6A—Funding of 2012 CIP Projects BCWMC June 16, 2011 Meeting Agenda

Date: June 6, 2011

Page: 2

West Medicine Lake Park Pond (substantially complete)	\$355,366
Lakeview Park Pond	(\$638)
Northwood Lake East Pond 2009	\$35,419
Crane Lake – Ramada Inn Pond	\$89,961
Sweeney Branch Channel Stabilization	\$114,243
Wirth Lake – Pond and Alum Treatment	\$169,909
Resource Management Plan	(\$57,094)
Main Stem Bassett Creek Channel Stabilization, 2010, Crystal Border to Regent	(\$168,000)
Main Stem Bassett Creek Channel Stabilization, 2010, Crystal Border to Regent Avenue to, transfer from reserve	(\$169,512)
Plymouth Creek Channel Stabilization, 2010, Medicine Lake to 26th Ave, transfer from closed project account	(\$62,738)
Plymouth Creek Channel Stabilization, 2010, Medicine Lake to 26th	\$20,000
Main Stem Bassett Creek Channel Stabilization, 2011, Wisconsin Avenue to Crystal Border, transfer from reserve funds	(\$258,800)
North Branch Bassett Creek, Channel Stabilization, 2011, 200 feet upstream of Douglas Dr to 32 nd Ave N, transfer from reserve funds	(\$4,100)
BWSR Grants for Channel Restoration	\$360,000
Total Estimated CIP Reserve Balance	\$591,266

Assuming that approximately \$591,000 will be available in the CIP reserve, there will be about \$341,000 (591,000-250,000 target reserve balance) available for the proposed 2012 Main Stem Restoration project, the 2012 Wirth Lake Outlet modification project and the Schaper Park Feasibility study.

In summary, based on these estimates it appears that the levy for 2012 for all three projects will be between \$650,000 and \$700,000 as summarized below. This is more than the proposed maximum levy of \$935,000.

2012 Proposed CIP Projects:

Estimated 2012 Levy	\$657,000
Transfer from CIP Reserve	-\$341,000
Less BWSR Grant Received for Wirth Lake Project	-\$75,000
Schaper Park Feasibility Study	\$ 37,000
Wirth Lake Outlet Modification Estimated Project Cost	\$180,000
Main Stem Restoration Estimated Project Cost ¹	\$856,000

Memorandum

To: Bassett Creek Watershed Management Commission

From: Barr Engineering Company

Subject: Item 6B – Feasibility Reports

BCWMC June 16, 2011 Meeting Agenda

Date: June 6, 2011 **Project:** 23/27-0051

6B. Feasibility Reports

Recommended/requested Commission actions:

- 1. Approve or direct revisions to the feasibility studies for the 2012 Main Stem stream restoration project, 2012 Wirth Lake outlet project, and 2013 Lakeview Park Pond project. If needed, direct staff to present revised feasibility studies at a subsequent Commission meeting.
- 2. If approved, direct staff to produce and distribute feasibility study/studies.
- 3. Authorize staff to provide Hennepin County with maximum levy amounts for the 2012 Main Stem stream restoration project, and the 2012 Wirth Lake outlet project.

Background

The Commission's February 25, 2011 letter to the Minnesota Board of Water and Soil Resources (BWSR) proposed a major plan amendment to modify the BCWMC Plan to include the:

- 2012 Bassett Creek Main Stem Restoration Project, Golden Valley Road to Irving Avenue North
- 2012 Wirth Lake Outlet Modification Project
- 2013 Lakeview Park Pond Project

As noted in the memo for agenda item #5 (Public Hearing), BWSR cannot formally approve the plan amendment until Hennepin County approves it. Hennepin County Board approval is expected on August 2. To meet their schedule, Hennepin County needs to receive the Commission's maximum levy amounts for the Commission's proposed 2012 projects; they need this information from the Commission immediately after the Commission's June 16 meeting.

Based on comments to be heard at the public hearing and Commission meeting on June 16, the Commission should either approve the feasibility studies or direct staff to revise the feasibility studies. If the revisions are significant, the Commission should further direct staff to present the revised feasibility

To: Bassett Creek Watershed Management Commission

From: Barr Engineering Company

Subject: Item 6B – Feasibility Reports

BCWMC June 16, 2011 Meeting Agenda

Date: June 6, 2011

Page: 2

study/studies at a subsequent Commission meeting. If any of the feasibility studies are approved, the Commission should direct staff to produce and distribute the study/studies.

See also the memo for agenda item 6A regarding funding of the 2012 CIP projects.



June 10, 2011

City Hall 7800 Golden Villey Road Golden Villey, MN 55427-4588 763-593-8000 763-593-8109 (fax) 763-593-2968 (TTY)

Mayor and Council

City Manager 163-593-8002

Public Safety Police 163-593-8079 Fuel 163-593-8079 163-193-8098 (fax)

Public Works 763-593-8030 763-593-3988 (fax)

Inspections 763-593-8090 763-593-5997 (fax)

Motor Vehicle Licensing 763-593-8101

Planning and Zoning

Finance 763-593-8013

Assessing 763-593-8020

Park and Recreation 200 Brookview Parkway Golden Villey, MIN 55426-1364 763-512-2345 763-512-2344 (fax) 763-593-3968 (TTY) Linda Loomis, Chair Bassett Creek Watershed Management Commission c/o Barr Engineering Co. 4700 West 77th Street Minneapolis, MN 55435

Subject: Update to Lakeview Park Pond Concept Study

BCWMC CIP Project No. ML-8

Dear Chair Loomis:

In preparation for the upcoming BCWMC public hearing on the proposed major plan amendment, which includes the addition of Lakeview Park Pond to the BCWMC CIP, the City of Golden Valley would like to provide you with project information, including clarification of the project scope and updated project costs.

The City retained the consulting engineering firm of Bonestroo Rosene Anderlik and Associates (now Bonestroo) in 2004 to prepare a concept study for the Lakeview Park pond. The concept study determined that the pond construction in Lakeview Park was technically feasible, and preliminary layouts and cost estimates were developed. The study is attached to this letter for your reference.

The study found that construction of the pond in Lakeview Park provides significant water quality benefits to Medicine Lake. The proposed pond would be constructed to meet the BCWMC Level 1 standards for water quality ponding, and would remove approximately 83% of the total suspended solids and 52% of the phosphorus from storm water leaving Golden Valley and entering Medicine Lake. In addition, the construction of this pond would also increase the efficiency of the water quality ponds constructed adjacent to Medicine Lake by the City of Plymouth and the BCWMC. The proposed pond would be located in the northern portion of Lakeview Park, utilizing a portion of the park where there is often standing water following heavy rains.

The concept study included an alternative location for the pond in an effort to create space in the park and to give the pond a more natural shape.

This alternative involved the removal of asbestos bonded storm pipe and the removal and replacement of sanitary sewer facilities. Due to the significant cost, the alternative pond location and associated work has now been eliminated from the scope of this project.

The City instead plans to utilize funding through its Inflow & Infiltration Reduction Program to line and seal the existing sanitary sewer facilities to a watertight condition. This may provide flexibility in the overall shape and design of the pond. The asbestos bonded storm sewer pipes would be avoided or abandoned in place if possible, although some removal may be necessary.

The preliminary cost estimate for the "basic" pond and restoration was approximately \$146,000 in 2004. The City has adjusted this estimate to \$196,000 to account for inflation and factors mentioned above. This estimated cost is reflected in the BCWMC proposed CIP, which will be presented at the public hearing next week.

The City of Golden Valley looks forward to working with you in achieving the goals of the BCWMC. Please feel free to call me or Eric Eckman if you have any questions about the Lakeview Park Pond project.

Sincerely.

Jeff Oliver, PE City Engineer

Enclosure

C: Tom Burt, City Manager
Jeannine Clancy, Director of Public Works
Bert Tracy, Public Works Maintenance Manager
Dave Lemke, Utilities Supervisor
Al Lundstrom, Park Maintenance Supervisor
Rick Jacobson, Director of Park and Recreation
Eric Eckman, Public Works Specialist
Len Kremer, Barr Engineering Co.

Fin Schm for



Lakeview Park— Proposed Water Quality Pond

City of Golden Valley

August, 2004 Bonestroo File No. 1438-04-105

Lakeview Park--Proposed Water Quality Pond

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I. Project Summary

<u>Issues.</u> This project focuses on the potential benefits and feasibility of constructing a water quality treatment pond in Lakeview Park. The City identified several issues of concern in this area, which are as follows:

 This area of Golden Valley drains to Medicine Lake directly without any water quality treatment or Best Management Practices (BMP's).

 The watershed area east of Medicine Lake is fully developed. Few opportunities remain to provide substantial water quality treatment to runoff from this area before it enters the lake.

 Low lying homes on the east side of the park have historically had flooding problems during large storm events.

This project included several steps to analyze problems in this area, and identify and evaluate options to address the water quality and flooding concerns:

- Assessment of existing land use and watershed conditions in the area
- Quantification of existing water quality and potential for improvement with proposed ponds in Plymouth and Lakeview Park in Golden Valley
- XP-SWMM modeling of the existing conditions to verify flooding conditions

<u>Recommendations.</u> This report summarizes the analysis, and recommends the following:

- Based on the potential water quality benefits to Medicine Lake, construct a water quality pond in the current location of standing water within Lakeview Park
- Design the pond with a natural appearance that will serve as an amenity to the park and surrounding area.

The analysis indicates that the proposed pond in Lakeview Park would provide a high level of sediment and phosphorus removal from the immediate watershed area, meeting the Bassett Creek Watershed's Level I requirements, and would substantially improve the performance of a water quality pond proposed downstream in Plymouth.

The location of the proposed water quality pond is currently all City parkland. A major portion of the park is not usable for recreational activities much of the time and difficult to maintain due to shallow standing water. This area was a wetland prior to development of the surrounding neighborhood. The proposed water quality pond would be constructed in that location.

The report also notes two issues related to development of the proposed water quality pond:

- Constructability. Construction plans will need to address the difficult soils in the area, and include an approach to address the asbestos-lined stormwater pipe and existing sanitary sewer pipe in the park.
- Flooding issues. The report identified some options to address flooding issues around the park. The City will need to evaluate the costs, advantages, and disadvantages of these options to determine whether flooding issues should be addressed along with development of the water quality pond.

II. Issues and Problems

A. Water Quality

The existing neighborhood and associated streets and storm sewer appear to have been constructed during the 1960's. Soils maps for the Lakeview Park area indicate that the area was at one time a low-lying wetland that was connected to Medicine Lake. As was standard at the time, much of the wetland area was filled to allow the construction of homes and associated streets. No features were included to provide any water quality treatment, which is also typical of development during that era.

This area of Golden Valley drains through storm sewer under Trunk Highway 169 (TH 169) into Plymouth and then into Medicine Lake. (See Figure 1). Over the years, large sediment deltas have formed at the storm sewer outlet to Medicine Lake. As a result, occasional maintenance is required to remove the sediment delta. The delta is also an indication that other pollutants, such as phosphorus, are entering Medicine Lake from this watershed. As is the case within Golden Valley, no water quality treatment exists within the watershed in Plymouth or along the TH 169 ROW.

The City of Plymouth has recently undertaken some efforts to improve the water quality entering Medicine Lake from this watershed. The City is planning to construct a water quality pond on City-owned land located just upstream from Medicine Lake. However, due to limited space, the pond is not designed to treat all the runoff from the watershed. Instead, a manhole that diverts smaller storms to the proposed water quality pond will be constructed. In this manner, the "first flush" of pollutants will be forced through the water quality basins. Modeling indicates that this configuration will remove approximately 38% of the Total Suspended Solids (TSS) and 23% of the Total Phosphorous (TP) from the runoff in the watershed. While an improvement over existing conditions, typical standards for new construction in the Bassett Creek Watershed would result in total TSS removals of 90% and TP removals of around 60%. Clearly, if more could be done to treat water in this watershed, there would be a benefit to Medicine Lake.

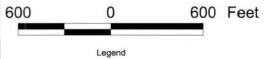
B. Flooding Issues

Lakeview Park is located over what was at one time a wetland that was filled during the 1960's. Filling activities raised much of the land surrounding the park to higher elevations to allow development of the current single-family homes. The natural topography also funneled most of the runoff in the area towards the park.

The park itself lies at the lowest elevations along the east side of TH 169. If no storm sewer existed in this area, all the water would naturally run towards the park. TH 169 is several feet higher than the park, effectively creating a closed basin if there were no storm sewer.

Storm sewer does collect runoff from the streets surrounding the park, slightly altering the drainage patterns in the area. A large storm sewer drains to the west at a relatively flat grade, under TH169, and then to Medicine Lake. This storm sewer also collects runoff from TH 169 and Plymouth before discharging to the lake.





Existing Pipes
Overall Drainage Area

eet City of Golden Valley

Overall Watershed Map

Lakeview Park Pond

Figure 1



June 2004



During large storm events, water pools and ponds within the park. When this occurs, it sometimes rises to elevations that cause damage to homes located on the east side of the park. City staff reports that these homes have been flooded several times and remain an ongoing concern.

C. Park Conditions

Lakeview Park currently is home to several active recreational activities, such as ice-skating, soccer, basketball, and softball. However, a large portion of the park, located in the northeastern half, remains relatively unusable for active recreation. The ground in this area is often wet, and it is not unusual for shallow water to remain standing in this area for long periods of time.

Within the area of shallow water, the predominant vegetation at this time appears to be grass that is mowed when possible. The existing trees include several willow trees and several large cottonwood trees. This vegetation is typical of an area that is wet for extended periods of time.

A berm extended north to south through the central portion of the park. This berm indicates the location of existing storm sewer and sanitary sewer that run through the park.

These current conditions create an area of the park that is difficult to maintain and includes a large area that is of limited benefit to the neighborhood.

III. Goals and Options to Address the Issues

A. Project Goals

The City identified the following goals for its efforts to address the issues identified in the project area:

- Improve water quality protection for Medicine Lake
- · Reduce the potential for the flooding of adjacent residents
- Create an amenity for Lakeview Park

Bonestroo staff identified potential options for meeting the goals in this area, and discussed the pros and cons of each item with City Staff. These options are described in the sections that follow.

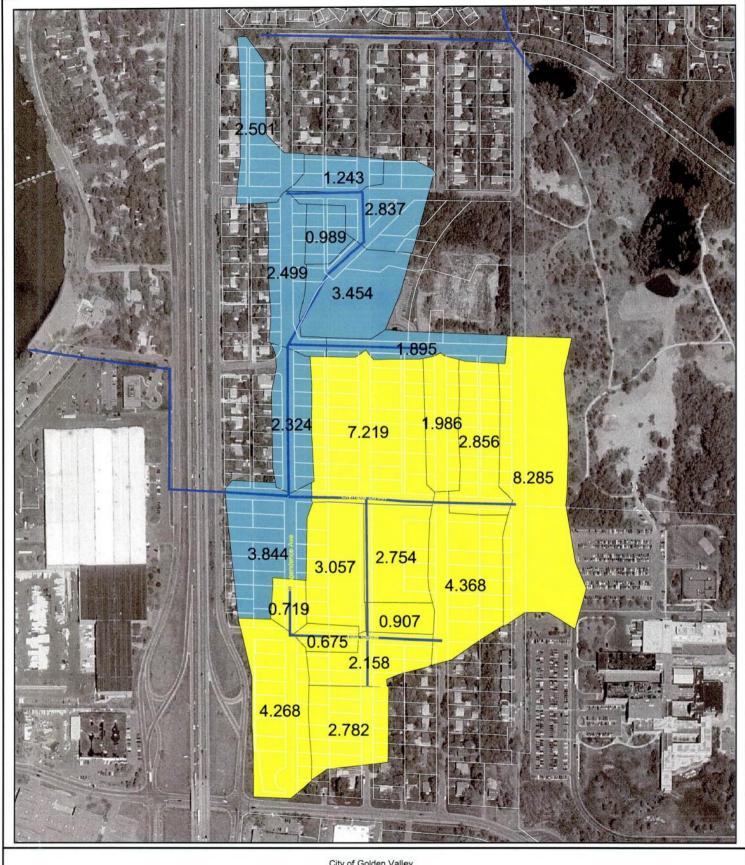
B. Proposed Water Quality Pond

If new development were to occur in this area, it would require a water quality pond that meets the Bassett Creek Watershed Management Commission's Level I Water Quality requirements. Specifically, this requires that the pond have the dead storage volume (or water quality storage volume) equal to or larger than the runoff from a 2.5" rainfall event falling over the watershed. This was used as the baseline for sizing the proposed water quality pond. While not technically required in this case, it is the City's intention to meet the Level I requirements.

The potential drainage area that could be served by the proposed water quality pond is shown on Figure 2. Based on the Basset Creek Level I requirements, the proposed pond must have the dead storage volume equal to or greater than 3.6 acre-feet (total excavation required is approximately 6000 Cubic Yards). The preferred alignment of such a pond to maximize detention time is to have a length to width ration of 3:1. To size the pond, it was assumed the pond would have a 10:1 aquatic vegetation bench for the first foot below the normal water level (NWL), with 4:1 slopes beneath the bench to a maximum depth of 8 feet.

These calculations result in a pond with a surface area of 0.7 acres. A rough footprint of this size is shown on Figure 3. This footprint is purely shown to give an approximation of the area required to meet the Level I requirements. The pond could be designed and constructed with a more irregular, natural shape. As the figure shows, a pond meeting the Level I requirements could easily fit into the portion of the park that is not currently used for active recreational purposes. The water quality pond would not eliminate or reduce the area of the park available for active recreational pursuits.

The water quality model P8 was used to predict the impacts of constructing a water quality pond of this size. Based on treating the area shown on Figure 3, the proposed pond provides 83% TSS Removal and 52% TP removal for this drainage area. In conjunction with the pond proposed by Plymouth, the overall removal efficiencies from the entire watershed draining to Medicine Lake are raised to 51% TSS removal (an 34% increase from Plymouth's ponds alone) and 32% TP removal (a 39% increase in removals).



City of Golden Valley

Legend

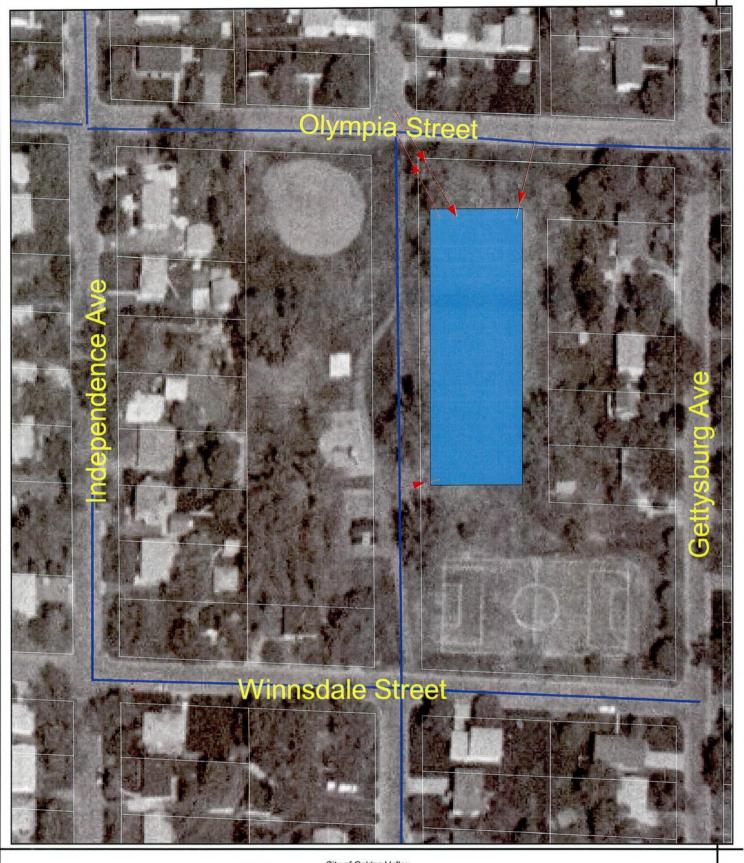
XP-SWMM Drainage Boundaries

Figure 2 400 400 Feet



June 2004





Legend

Proposed Pipes
Proposed Pond.shp
Parcels
Existing Pipes

City of Golden Valley **Lakeview Park Modifications**

Figure 3

Figure 1 50 0 50 Feet



June, 2004



The following table demonstrates the impacts of existing conditions, Plymouth's proposed ponds, and the additional impact Golden Valley's ponds could have.

Scenario	TSS to Medicine Lake (lbs/year)	% Removed	TP to Medicine Lake (lbs/year)	% Removed
Existing	47,100	0%	171	0%
Plymouth Pond Only	29,000	38%	132	23%
Plymouth and Lakeview Park Ponds	23,200	51%	117	32%

Clearly, there are benefits to constructing a water quality pond in this location.

If the size of the proposed water quality pond were increased even more, the removal efficiencies would be even higher. However, at the volume described above, additional excavation will result in proportionally smaller and smaller increases in removal efficiencies. Effectively, there is a point of diminishing returns with increased volume, and the proposed pond is reaching the upper end of removal efficiencies.

C. Flooding Impacts

To evaluate the potential impacts or benefits of constructing a water quality pond, the existing network of storm sewers and drainage areas was modeled using the software program XP-SWMM. XP-SWMM is a powerful hydrologic and hydraulic modeling tool used to evaluate storm sewer networks with potentially difficult hydraulics, such as pipe surcharging, localized street flooding, and flow reversals.

After completing the modeling, a 100-year high water level (HWL) of approximately 897.0 was found for the 100-year, SCS Type II storm with a total rainfall of 6.0 inches. Based on the contour data provided, it appears this would be sufficient to impact some of the homes located on the east side of the park.

The existing flooding condition is created by two factors. The first is the local drainage making its way into the low area. This by itself likely would not be enough to cause the observed flooding. However, in conjunction with the pipes downstream of the pond surcharging and reversing flow, water that makes its way to the low area cannot drain until the downstream pipe system has capacity. Effectively, the water is held in place and forced back into the low area until the peak flows from TH 169 and Plymouth pass through the system. The combination of the two factors causes the existing flooding problems.

In order to reduce flooding in this situation, there are four ways to "fix" or reduce flooding. They are, in no particular order, reduce the drainage area to the problem, install a bigger outlet to remove the water faster, provide additional flood storage, or remove the problematic structures.

In this case, reducing the drainage area is not an option. The drainage area that affects the flooding in this area is effectively everything tributary to the outlet pipe to Medicine

Lake. Simply reducing the direct drainage area to the park does not fix the surcharging problem there today. It also runs contrary to the idea to providing water quality treatment for as large an area as possible.

Installing a bigger outlet is possible as rate control is not an issue for this pond. Medicine Lake is immediately downstream which provides more than enough rate control for Bassett Creek. However, the required pipes would be large. The existing pipes are 54" equivalent arch pipes for much of the way, and these would need to be enlarged. The fact that they are arch pipes suggests that ground cover over the pipes is a concern, and larger pipe may not be feasible from that standpoint. Installing larger pipes would also require jacking beneath TH 169 and enlarging pipes in Plymouth. Essentially, the pipe would need to be replaced all the way from Lakeview Park to Medicine Lake.

Increasing the storage area is a possibility within the park. In some cases, this can be accomplished by lowering the normal water level of the low area. In this case, the invert of the pipes leaving the park is only about a foot lower than the existing outlet invert. This small increase in storage is not sufficient to dramatically lower water levels. If more storage is desired, this could be accommodated by using more of the active recreation areas of the park or by acquiring and removing the adjacent homes with flooding issues, and enlarging the proposed pond.

As a final alternative, the flooding problem could be addressed by removing the homes with openings below the high water level, while creating no additional storage.

Given conditions in the study area, creation of a water quality pond in the proposed location would not change the 100- year high water level. The dead storage created in the water quality pond (storage below the normal water level) does little to increase flood storage.

Thus, the proposed water quality pond would do little to reduce the potential for flooding in the area. Flooding could be addressed, by 1) increasing the size of the outlet pipes, 2) increasing the storage area of the pond by expanding it into the area devoted to active recreation or existing structures, or 3) purchase and removal of affected structures.

D. The Pond as a Park Amenity

Water quality ponds are frequently designed as amenities in new neighborhoods. The pond proposed for Lakeview Park could serve as an amenity to the park and surrounding development or redevelopment. Space is available in the low, wet area of the park to create an attractive pond, add plantings, and perhaps a walking path around the pond that will enhance the park and provide additional passive recreation for neighborhood residents. At the same time, the City could consider the need for redesign or renovation of other areas in the park to meet current and future needs of the neighborhood.

The pond could be extended into low areas in the northwest portion of the park, to create a pond with natural shape. This would require removal of existing storm water pipes and relocation of the existing sanitary sewer pipes within the park, and reconstruction of the existing pathway.

Residents are often concerned that ponds may serve as mosquito-breeding areas. Research related to West Nile Virus and stormwater management facilities suggests that wet meadows or semi-permanent wetlands are the ideal conditions for mosquito development, and that typical storm water ponds with large areas of open water are poorer habitat for mosquito breeding. This research suggests that elimination of the damp meadow area in the park and replacement with a permanent area of open water may be of benefit in eliminating a prime mosquito breeding location as well as providing water quality benefits to Medicine Lake and additional passive recreation for the neighborhood. (Ramsey-Washington Metro Watershed District, West Nile Virus and Stormwater Management, July 2003)

E. Potential Issues

There are three constructability issues that the City should consider when in designing a water quality pond in this location: 1) the condition of the existing soils, 2) the presence of asbestos materials in some of the existing storm sewer, and 3) the existing sanitary sewer line within the park.

Record plans for the storm sewer serve as an indicator of the soils under the park, as do the soils maps. The soils maps show the presence of wetland soils, and the storm sewer record plans show that nearly all the pipe in the park was placed on pilings to support it in the soft soil.

This suggests that the soils in the area of the proposed pond may have difficulty supporting heavy loads, such as earthmoving equipment. It is likely that any pond excavation work would need to be completed during the winter under frozen ground conditions, which can support heavier loads. Thus, the timing of pond excavation should be considered in scheduling any project.

The second issue is the presence of Asbestos Bonded Corrugated Metal Pipe. The storm sewer running through the park is all made of this material, while the pipes in the surrounding streets are all reinforced concrete. This pipe material was used in the park as the soils were poor and corrugated metal pipe is lighter, and thus "floats" better in the poor soils. The asbestos bonding was used to provide resistance to corrosion.

While relatively uncommon, the asbestos bonded corrugated metal pipe is present here according to record plans. In general, there are two ways to deal with this material—work around it and avoid disturbance, or remove it.

The first option is to work around the pipes. In this case, an existing manhole in the park could be modified to reroute stormwater into the new water quality pond, rather than only serving as a drain from the existing shallow water area. The section south of the manhole would remain in use, and the section north would be bulk-headed and left in place. The outlet from the water quality pond would connect to the existing concrete pipe north of the park.

Removal of the asbestos bonded CMP, would substantially increase the costs of the proposed project (see cost estimate). A trained crew would be required to remove the hazardous materials safely and dispose of them properly. The advantage of this approach is that it would permanently eliminate a potential problem from the park. The disadvantage is the extra cost associated with removal of the asbestos material. The

City can evaluate the alternatives and chose to avoid or remove the asbestos bonded CMP if it moves forward with design and construction of the proposed pond.

If the City chooses to design the pond to extend to the low area in the northwest portion of the park, across the existing storm sewer and sanitary sewer lines, it would need to remove both the storm sewer and sanitary sewer pipes. The storm sewer pipe could be removed permanently and disposed, as described in the preceding paragraph. The sanitary sewer could be removed and replaced to the east near the back property lines of the homes on Gettysburg Avenue. The cost of removing the existing pipe and replacing this service is included in the cost estimate on page 13.

IV. Conclusions, Cost Estimate and Next Steps

Based on the analysis and discussions completed for this project, the following improvements are recommended to address the problems identified in the area and meet the City's goals:

- Construct a water quality pond in Lakeview Park to meet the enhance water quality in Medicine Lake
- The pond should be sized to meet the Bassett Creek Watershed District's Level I standards for the area
- The pond should be designed as an amenity to the park and surrounding neighborhood

The estimated cost of creating the proposed pond and restoring the park is approximately \$145,670, including contingencies, engineering and administration. The cost estimate is shown on the next page. If costs are incurred to remove the asbestos pipe and remove and relocate the sanitary sewer pipe along with construction of the pond, the total estimated project cost is \$416,990.

The following additional issues should be considered in sizing and completing a final design for the proposed pond:

- Obtain the actual low entry elevations of the adjacent residences to determine how susceptible to flooding they are
- Consider options to increase the size of the pond or purchase and remove threatened structures to reduce flooding concerns in the area
- Consider winter excavation of the pond due to difficult soil conditions.

LAKEVIEW PARK POND

GOLDEN VALLEY BRAA File No. 1438-04-105

PRELIMINARY COST ESTIMATES

			UNIT	
ITEM	UNIT	QTY	PRICE	TOTAL
POND AND RESTORATION				
POND EXCAVATION	CY	5,000	\$10.00	\$50,000.00
INLET STRUCTURES	EA	3	\$1,000.00	\$3,000.00
PIPE	LF	100	\$40.00	\$4,000.00
OUTLET STRUCTURE	EA	1	\$5,000.00	\$5,000.00
TRAIL RESTORATION AND EXPANSION	LF	1,300	\$16.00	\$20,800.00
RESTORATION & PLANTINGS				
Native Seed	AC	1.25	\$5,000.00	\$6,250.00
Trees	EA	30	\$300.00	\$9,000.00
Shrubs	EA	100	\$40.00	\$4,000.00
Wetland plants	EA	200	\$10.00	\$2,000.00
SUBTOTAL				\$104,050.00
10% CONTINGENCIES				\$10,405.00
30% ENGINEERING AND ADMINISTRATION	N			\$31,215.00
SUBTOTAL POND				\$145,670.00
PIPE REMOVAL AND DISPOSAL				
ASBESTOS STORM PIPE REMOVAL				
Pipe removal	EA	600 ft.	\$8,000.00	\$8,000.00
Wrapping for transport	EA	600 ft.	\$3,000.00	\$3,000.00
Tranport and Disposal	EA	600 ft.	\$3,000.00	\$3,000.00
SANITARY PIPE REMOVAL AND REPLACE		000 11.	\$0,000.00	40,000.00
Mobilization	LS	1	\$20,000.00	\$20,000.00
Clearing	Tree	3	\$350.00	\$1,050.00
Grubbing	Tree	3	\$250.00	\$750.00
Rem Bit Pavement	SY	400	\$5.00	\$2,000.00
Rem Conc C& G	LF	70	\$10.00	\$700.00
Rem Exist Sew Pipe	LF	625	\$10.00	\$6,250.00
Rem Exist MH/CB	EA	1	\$200.00	\$200.00
Crushed Rock for Stab	TON	50	\$20.00	\$1,000.00
8" DIP	LF	715	\$50.00	\$35,750.00
12" RC Pipe, CL5	LF	15	\$40.00	\$600.00
Const CG Des 2'x3'	EA	1	\$800.00	\$800.00
Const MH Des F	EA	2	\$2,000.00	\$4,000.00
Helical Piling	LF	980	\$30.00	\$29,400.00
Pipe caps	EA	14	\$1,500.00	\$21,000.00
MH Foundation	EA	1	\$1,500.00	\$1,500.00
Connect to Exist MH	EA	2	\$500.00	
	LF			\$1,000.00
C&G Replacement		70	\$15.00	\$1,050.00
Type 41 Bit Patch Mix	Ton`	110	\$75.00	\$8,250.00
Sodding w/4" Topsoil Relocate Exist Park Sign	SY LS	11000	\$4.00 \$500.00	\$44,000.00 \$500.00
	LO	1	φ500.00_	
SUBTOTAL 10% CONTINGENCIES				\$193,800.00
30% ENGINEERING & ADMINISTRATION				\$19,380.00
			_	\$58,140.00
TOTAL PIPE REMOVE/REPLACE				\$271,320.00

Lakeview Heights Sanitary Sewer Relocation

Spec No.	Description	Units	Est. Quan	Unit Price	Amount
	Mobilization	LS	1	\$20,000.00	\$20,000.00
	Clearing	Tree	3	\$350.00	\$1,050.00
	Grubbing	Tree	3	\$250.00	\$750.00
	Rem Bit Pavmnt	SY	400	\$5.00	\$2,000.00
	Rem Conc C& G	LF	70	\$10.00	\$700.00
	Rem Exist Sew Pipe	LF	625	\$10.00	\$6,250.00
	Rem Exist MH/CB	EA	1	\$200.00	\$200.00
	Crushed Rock for Stab	TON	50	\$20.00	\$1,000.00
	8" DIP	LF	715	\$50.00	\$35,750.00
	12" RC Pipe, CL5	LF	15	\$40.00	\$600.00
	Const CG Des 2' x 3'	EA	1	\$800.00	\$800.00
	Const MH Des F	EA	2	\$2,000.00	\$4,000.00
	Helical Piling	LF	980	\$30.00	\$29,400.00
	Pile Caps	EA	14	\$1,500.00	\$21,000.00
	MH Foundation	EA	1	\$1,500.00	\$1,500.00
	Connect to Exist MH	EA	2	\$500.00	\$1,000.00
	C&G Replacemt	LF	70	\$15.00	\$1,050.00
	Type 41 Bit Patch Mix	Ton	110	\$75.00	\$8,250.00
	Sodding w/ 4" Topsoil	SY	11000	\$4.00	\$44,000.00
	Relocate Exist Park Sign	LS	1	\$500.00	\$500.00
	Const Cost				\$179,800.00
	10% Contingencies				\$17,980.00
	30% Admin				\$59,334.00
	Project Total				\$257,114.00



	Α	1 E F	G H		K L
1	2012 Operating Bu	dget			
2	Bassett Creek Watershed Management Commission				
3					DRAFT
				2011 Estimated -	Dannag 2042
4	ltem	Audited 2010 Actual	2011 Budget	numbers shown are 2011 budget for now	Proposed 2012 Budget
5	ENGINEERING				
6	Technical Services	119,832	110,000	110,000	120,000
<u>7</u> 8	Plat Reviews (funded by permit fees)	53,128 12,316	50,000 13,000	50,000 13,000	60,000 14,250
9	Commission and TAC Meetings Surveys and Studies	17,899	20,000	20,000	10,000
10	Water Quality / Monitoring	24,489	34,000	34,000	20,000
11	Water Quantity	8,264	11,000	11,000	11,000
12 13	Inspections Watershed Inspections	10,842	8,000	8,000	9,000
14	Project Inspections	5,714	10,000	10,000	7,000
15	Municipal Plan Review	7,927	2,000	2,000	2,000 (1)
16	Subtotal Engineering	\$260,411	\$258,000	\$258,000	\$253,250
17	PLANNING				* 70.000
18 19	Watershed-wide XP-SWMM Model Watershed-wide P8 Water Quality Model	1			\$70,000 \$135,000
20	Next Generation Plan	1			\$40,000
21	Subtotal Planning	\$0	\$0	\$0	\$245,000
22	Administrator	30,297	36,000	36,000	50,000
23	Legal	17,331	18,500	18,500	18,500
<u>24</u> 25	Financial Management Audit. Insurance & Bond	3,054	3,000	3,000	3,045
25 26	Audit, Insurance & Bond Meeting Catering Expenses	13,328 4,610	15,000 4,750	15,000 4,750	15,225 2,750
27	Administrative Services	42,578	45,000	45,000	40,000
28	Public Outreach				
<u>29</u>	Publications / Annual Report	5,169	2,000	2,000	2,000
30 31	Website Watershed Outlet Monitoring Program (WOMP)	1,031 6,818	4,500 10,000	4,500 10,000	2,500 10,000 (2)
32	Demonstration/Education Grants	3,140	5,000	5,000	0 (3)
33	Watershed Education Partnerships	16,150	14,500	14,500	13,000 (4)
34	Education and Public Outreach	2,911	4,900	4,900	5,775 (5)
35	Public Communications	692	3,000	3,000	3,000
36 37	Erosion/Sediment (Channel Maintenance) Long-Term Maint. (Flood Control Project)	25,000 25,000	25,000 25,000	25,000 25,000	25,000 (6) 25,000 (7)
38	Eurig-Territ Maint. (Flood Contact Flogest)	20,000	20,000	20,000	20,000 (1)
39	Subtotal	\$197,108	\$216,150	\$216,150	\$215,795
				· · · · · · · · · · · · · · · · · · ·	
40	TMDLS	000 000	0		
41	TMDL Studies	\$10,000	0	0	0
		\$10,000 \$10,000		0	0 10,000 \$10,000
41 42	TMDL Studies TMDL Implementation		0		10,000
41 42 43 44 45	TMDL Studies TMDL Implementation Subtotal TMDL Studies	\$10,000 \$467,519	0 \$0	\$0	10,000 \$10,000
41 42 43 44 45 46	TMDL Studies TMDL Implementation Subtotal TMDL Studies GRAND TOTAL For Information (Administrative Financial Information)	\$10,000 \$467,519	0 \$0	\$0 \$474,150	10,000 \$10,000
41 42 43 44 45 46 47	TMDL Studies TMDL Implementation Subtotal TMDL Studies GRAND TOTAL For Information (Administrative Financial Information Audited fiscal year 2010 fund balance at January 31, 2011	\$10,000 \$467,519	0 \$0	\$0 \$474,150 \$337,951	10,000 \$10,000
41 42 43 44 45 46 47 48	TMDL Studies TMDL Implementation Subtotal TMDL Studies GRAND TOTAL For Information (Administrative Financial Information Audited fiscal year 2010 fund balance at January 31, 2011 Expected income from assessments in 2011	\$10,000 \$467,519	0 \$0	\$0 \$474,150 \$337,951 \$434,150	10,000 \$10,000
41 42 43 44 45 46 47 48 49	TMDL Studies TMDL Implementation Subtotal TMDL Studies GRAND TOTAL For Information (Administrative Financial Information Audited fiscal year 2010 fund balance at January 31, 2011 Expected income from assessments in 2011 Expected interest income in 2011	\$10,000 \$467,519	0 \$0	\$0 \$474,150 \$337,951 \$434,150 \$300	10,000 \$10,000
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Bassett Creek Watershed Management Commission 2012 Assessment June 2011

Community	For Taxes Payable in 2011	2010 Percent	Current Area Watershed	Percent	Average	2009 Assessment	2010 Assessment	2011 Assessment	Proposed 2012 Assessment	Percent increase 2011 to 2012
	Net Tax Capacity *	of Valuation	in Acres	of Area	Percent	\$449,874	\$414,150	\$434,151	\$461,045	
Crystal	\$7,417,300	5.73	1,264	5.09	5.41	\$24,067	\$22,131	\$23,433	\$24,941	6%
Golden Valley	\$30,145,030	23.29	6,615	26.63	24.96	\$112,052	\$103,256	\$109,230	\$115,080	5%
Medicine Lake	\$918,976	0.71	199	0.80	0.76	\$3,298	\$3,090	\$3,301	\$3,484	6%
Minneapolis	\$9,531,547	7.37	1,690	6.80	7.08	\$33,246	\$30,216	\$31,375	\$32,661	4%
Minnetonka	\$8,217,982	6.35	1,108	4.46	5.41	\$23,031	\$21,510	\$22,558	\$24,920	10%
New Hope	\$7,811,766	6.04	1,252	5.04	5.54	\$24,445	\$22,605	\$23,840	\$25,533	7%
Plymouth	\$56,865,614	43.94	11,618	46.77	45.35	\$205,093	\$188,453	\$196,201	\$209,101	7%
Robbinsdale	\$2,706,469	2.09	345	1.39	1.74	\$8,077	\$7,417	\$7,672	\$8,022	5%
St. Louis Park	\$5,796,381	4.48	752	3.03	3.75	\$16,565	\$15,472	\$16,541	\$17,303	5%
TOTAL	\$129,411,065	100.00	24,843	100.00	100.00	\$449,875	\$414,150	\$434,150	\$461,045	6%

^{*} Information is certified amounts from the County.



Memorandum

To: Bassett Creek Watershed Management Commission

From: Technical Advisory Committee

Subject: June 2, 2011 Meeting

Date: June 8, 2011

The Technical Advisory Committee (TAC) met on June 2, 2011. The following TAC members, city representatives, and BCWMC staff attended the meeting:

City	TAC Members/Alternates	Other City Representatives		
Crystal	Absent			
Golden Valley	Jeff Oliver, Jeannine Clancy	Chair Linda Loomis		
Medicine Lake	Vacant position			
Minneapolis	Pat Byrne			
Minnetonka	Lee Gustafson, Liz Stout			
New Hope	Jason Quisberg			
Plymouth	Derek Asche			
Robbinsdale	Richard McCoy			
St. Louis Park	Laura Adler			
BCWMC Staff	Geoffrey Nash, Karen Chandler			

Also in attendance were Jack Frost, Metropolitan Council, and Deb Pilger, Minneapolis Park and Recreation Board.

The Technical Advisory Committee (TAC) directed staff to forward the following recommendations to the Commission for its consideration. This memorandum presents the recommendations relating to 1) electronic data collection of surface water elevations, 2) BCWMC and member city permit review procedures, 3) water quality trading programs, 4) BCWMC's annual CIP review timeline, and 5) BCWMC's draft 2012 budget.

1. Electronic Data Collection of Surface Water Elevations

The TAC discussed the Commission's request for TAC input on the "water quantity" item in the draft BCWMC 2012 budget. This budget item currently covers the work associated with BCWMC's lake and stream water level gauging program. Through the program, water levels are measured on eight lakes/ponds and at locations along Bassett Creek. At the May Commission meeting, the administrator suggested that the Commission purchase and install pressure transducers to record lake

From: Technical Advisory Committee

Subject: June 2, 2011 Meeting

Date: June 7, 2011

Page: 2

water levels, with Medicine and Parkers Lakes as likely candidates in 2012. The Board endorsed the concept, but wanted the TAC to weigh in on the topic. During discussion on this topic, the TAC asked the following questions:

- 1. What are the annual costs for using the transducers (e.g., overall costs to maintain equipment and download data)? Staff did not have this information available.
- 2. What are the uses for this data? Besides using the data to show historical trends (e.g., Medicine Lake), the TAC discussed how this information might be used for verifying/calibrating models.
- 3. Are there waterbodies where the cities could partner with the BCWMC to collect the water level data, to help save on costs? The TAC suggested that staff pick likely waterbodies where cities could partner with the BCWMC to perform the monitoring. The TAC further suggested that the selection of monitoring sites be based on the use of the data in support of modeling efforts. (During this discussion it was noted that there are now two public access points on Sweeney Lake.)

Before the TAC makes a recommendation to the Commission regarding the use of pressure transducers to collect water level data, they would like more information provided to them in response to the above questions. They would then discuss this item and make a recommendation at a subsequent TAC meeting.

Recommendations

1. The TAC requests that BCWMC staff provide more information in response to the above questions, so they can discuss it at a future TAC meeting.

2. BCWMC and Member City Permit Review Procedures

At the Commission's May meeting, there was discussion regarding possible BCWMC policy changes needed to implement TMDLs, and in light of the BCWMC's role as the categorical waste load allocator. Included in the discussion were Commissioner Welch's suggested new policies changing the BCWMC's project review "triggers," which would require BCWMC review of smaller projects than currently come under review. The Commission requested that the TAC review member city ordinances on what amount of land disturbance triggers a permit review.

The TAC discussed the summary of city ordinance triggers and Commissioner Welch's proposed changes to the BCWMC triggers. The TAC discussion centered around the following issues:

1. Smaller triggers for BCWMC review – The TAC expressed concern about the Commission's review of smaller projects, as this would lead to a large number of small BMPs, increase the BCWMC's annual administrative costs, and cause too much regulation of citizens. The TAC's concerns about small BMPs included the likelihood that the small BMP projects will

From: Technical Advisory Committee

Subject: June 2, 2011 Meeting Date: June 7, 2011

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not provide enough benefit to compensate for the extra time and effort it takes city/BCWMC staff to review/permit such projects, and the maintenance issues on small projects. As an alternative to Commissioner Welch's suggestion, the TAC discussed the possibility of lowering the BCWMC review "trigger" for redevelopments to 1 acre.

2. City triggers – The TAC discussed the variety in triggers between each member city and whether there should be some standardization. Rather than standardize the triggers, the TAC recommended that BCWMC staff compare the member city triggers and report this information to the Commission.

The 1-acre trigger was a suggestion for a possible compromise between the current 5-acre trigger and the suggestion from the Commission for discussion on a 5000 square feet/50 cubic yards trigger (other groups, such as the MPCA, begin to regulate at the one acre level). The rationale behind regulating at the 5000/50 level and the fact that other "agencies" are compelled to regulate at this level was discussed, however, regulation at this level may not be a cost effective practice and here is why:

It seems that when those projects come to the Commission for review, a BMP would be required, then a maintenance agreement would be required, then inspections would be required, then follow-up would be required, perhaps a contractor may have to be hired, and perhaps a property may have to be assessed for the cost of maintenance on the BMP. And in the end, while the 5000/50 regulatory level is almost certain to be time consuming and expensive, it is also unlikely to provide a reasonably accurate indication of phosphorus removal since modeling and monitoring at such a small scale would be exceedingly difficult.

Where time and resources are in short supply, it might be preferable to continue the practice of constructing capital projects that provide an opportunity for modeling and monitoring of their effectiveness and the potential for a significant impact on a valuable resource(s). A one-acre trigger is worth discussing in light of concerns from the Commission as well as the BCWMC's role as "TMDL Implementor".

3. MPCA's draft new NPDES MS4 permit – The draft MS4 permit was released just a couple days before the TAC meeting. Some TAC members observed that there are significant requirements contained in the draft permit and wondered what the permit will not cover that needs to be covered by the Commission. The TAC also discussed how the Commission's role of categorical wasteload implementer relates to the MS4 permit (e.g., MS4 member cities do not have designated wasteload allocations for waterbodies with a categorical wasteload allocation.)

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Recommendations

1. The TAC recommends that the Commission consider a 1-acre or greater trigger for Commission review of redevelopment projects.

- 2. The TAC recommends that BCWMC Administrator compare the member city triggers and report this information at a future Commission meeting in order that the Commissioners be aware of the thresholds the cities currently initiate their regulatory processes.
- 3. The TAC did not formulate a recommendation regarding the MS4 permit issues and needs time to consider the draft NPDES MS4 permit.

3. Water Quality Trading and Banking Programs

As noted in item 2 above, the Commission's May meeting included discussion regarding possible BCWMC policy changes needed to implement TMDLs. In particular, the BCWMC engineer noted that current BCWMC policies for water quality treatment and non-degradation (as contained in the "requirements" document) would allow increases in nutrient loadings from new developments and linear projects. The possibility of implementing some type of water quality trading program was also discussed.

The Commission requested that the TAC discuss other WMO's approaches to water quality trading. The TAC discussed the information provided by the BCWMC engineer regarding the Ramsey-Washington Metro Watershed District and Nine Mile Creek Watershed District water quality trading approaches (see attached information). The TAC discussed how such an approach would be helpful because there will be situations where it will be difficult/not feasible to put infiltration and other water quality treatment practices in place. Such a trading approach would provide a way for projects/practices to be placed where it makes the most sense (e.g., redevelopment projects, city/BCWMC projects, etc.). The TAC was in support of the water quality trading approaches.

Recommendations

- 1. The TAC recommends that the Commission consider developing a water quality and banking trading approach, which might require the Commission to change its policies to require no increase in phosphorus loading for all projects (new developments, redevelopments, and linear projects).
- 2. The TAC may want to discuss further the "no increase in phosphorus loading for all projects" change in policy.

4. BCWMC's Annual CIP Review Timeline

The TAC discussed the BCWMC's overall annual CIP process, i.e., from TAC CIP recommendation and BCWMC CIP approval through project ordering. The BCWMC engineer suggested that to facilitate the process, it would be helpful to start the CIP process earlier. Current practice is for the

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TAC to make their CIP recommendations for the following year in January, and for the Commission to approve the CIP at a subsequent Commission meeting. Once the CIP is approved, the Commission can then order preparation of feasibility studies, etc. The CIP process has become squeezed in the last couple of years, especially in situations where a plan amendment/Hennepin County approval is required and/or significant permitting needs are anticipated.

The TAC noted that through their city budgeting and CIP review processes, they would be ready much earlier in the year to discuss the BCWMC CIP and therefore supported this requested change in the schedule. The TAC recommended that the CIP process start with the TAC meeting on the CIP in April, rather than January. This means that for the 2013 CIP, the TAC should have met in April 2011 to make their CIP recommendations. The TAC recommends that the Commission adopt the 2013 CIP at the July Commission meeting (see attached February 9, 2011 CIP table), based on review and confirmation by the TAC members that the 2013 projects as listed are correct.

The TAC further recommended that the Commission adopt a 5-year CIP that is then revised annually, as part of the annual CIP process.

Recommendation

- 1. The TAC recommends that the Commission consider making the following changes to the annual CIP process:
 - Adopt 2013 CIP at July 2011 Commission meeting, pending review and confirmation by the TAC members that the 2013 projects as listed are correct.
 - Starting in 2012, direct the TAC to annually meet in April to develop a 5-Year CIP that would be formally adopted by the Commission in September of each year pending review by member cities. In 2012, the 5-Year CIP that would be adopted by the Commission would be for the years 2014-2018.
 - Adoption of the CIP by the Commission would then authorize staff to begin the preliminary
 engineering for the projects in the first year of the adopted CIP, or as otherwise directed by
 the Commission. The intent would be to allow adequate time for project development prior
 to the year the project is scheduled for construction.

5. BCWMC's Draft 2012 Budget

The administrator discussed with the TAC the revisions to the 2012 budget. The TAC recommended that separate pages be attached to the budget table showing each fund, thus eliminating the need for footnotes. This would make the Commission's budget more like a city's budget and easier to understand.

From: **Technical Advisory Committee**

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6. Next TAC Meeting

With no pressing business for the next month, the TAC recommends that their next meeting be in August.



Geoff Nash, P.G. Watershed Consulting, LLC

Administrator's Report Bassett Creek Watershed Management Commission June 8, 2011

- 1. Worked with the Budget Committee in two meetings to draft the BCWMC 2012 budget.
- 2. Responded to comments on Sweeney Lake TMDL report. Administrator shared responsibility for responses with MPCA, SEH, and Barr.
- 3. Worked on handout for bi-annual tour itinerary.
- 4. Finalized CAMP monitoring contract with Met Council.
- 5. Prepared for TAC meeting and drafted TAC memo to Board.
- 6. Prepared for Board meeting.
- 7. Prepared and sent RFQ for Engineering Services to selected engineering firms.
- 8. Made final edits on Policy Manual.
- 9. Responded to Hennepin County request for Education and Outreach program information.
- 10. Responded to residents concerns on water resource related issues of concern to them (Northerns at Medicine Lake control structure and high water level at Grimes Pond in Robbinsdale).



June 7, 2011

Tom Mathisen City Engineer City of Crystal 4141 North Douglas Drive Crystal, MN 55422

Jeannine Clancy Director of Public Works City of Golden Valley 7800 Golden Valley Road Golden Valley, MN 55427-4588

Lois Eberhart
Water Resource Administer
City of Minneapolis
Engineering Design
309 Second Avenue South, Rm. 300
Minneapolis, MN 55401-2268

Liz Stout Water Resources Engineer City of Minnetonka 14600 Minnetonka Boulevard Minnetonka, MN 55345 Guy Johnson Director of Public Works City of New Hope 4401 Xylon Avenue North New Hope, MN 55428

Sherry Miller City of Plymouth 3400 Plymouth Blvd Plymouth, MN 55447

Richard McCoy City Engineer City of Robbinsdale 4100 Lakeview Avenue North Robbinsdale, MN 55422

Laura Adler Engineering Program Coordinator City of St. Louis Park 5005 Minnetonka Boulevard St. Louis Park, MN 55416

Ted Hoshal 6960 Madison Ave West Suite 2 Mpls MN 55427-3627

Re: Bassett Creek Watershed Erosion Control Inspections
June 1-4, 2011

We have inspected construction sites in the Bassett Creek Watershed for conformance to erosion and sediment control policies. Listed below are construction projects and the improvements needed for effective erosion control. The sites were inspected June 1-4, 2011. Please review the following for your respective city.

City of Crystal

None to report

City of Golden Valley

None to report

City of Medicine Lake

None to report

City of Minneapolis

None to report

City of Minnetonka

None to report

City of New Hope

None to report

City of Plymouth

Four Points: Install silt fence or erosion control logs around exposed soils adjacent to home under construction.

Larkin Pond: Repair silt fence along pedestrian path at 14504 10th Ave.

City of Robbinsdale

None to report

City of St. Louis Park

None to report

The following developments were found to be in compliance with erosion and sediment control policies:

City of Crystal

None to report

City of Golden Valley

Golden Meadows (inactive)
Golden Ridge (inactive)
Golden Valley Country Club Pond

Improvement

Golden Valley Pavement Management

Plan

Laurel Hills East Condominiums

Menards

Miner

North Hennepin Regional Trail / Golden

Valley Trail Phase 2

North Wirth Business Center (inactive) Theodore Wirth Pedestrian Bridge

Wirth Lake 2011 Site Improvements

Walgreens

City of Medicine Lake

None to report

City of Minneapolis

Van White Memorial Boulevard (inactive)

City of Minnetonka

Austrian Pines (inactive) Cantera Woods (inactive)

Crest Ridge Corporate Center (inactive)

City of New Hope

Hillside Terrace (inactive)

City of Plymouth

Auer Steel Site Improvements
Banner Engineering (construction not started)

Bassett Creek Office Center (inactive)

Beacon Academy (inactive) Executive Woodlands (inactive)

Hidden Acres

Hilde Performance Center 1900 E Medicine Lake Blvd

Plymouth Business Center Parking

Addition

Plymouth Covenant Church

Rome Co.

Plymouth Creek Park Hockey Rink

Plymouth Creek Ponds

Plymouth Crossing Station (construction

not started)

Remax

South Shore Dr Reconstruction/Bridge

Timber Creek Improvements

Waterford Office Plaza (inactive)

West Medicine Lake Park Pedestrian

Bridge

Wood Creek

Woods at Medicine Lake (inactive)

City of Robbinsdale

None to report

City of St. Louis Park

Parkside Lofts (inactive)

The following developments have been completed and removed from the inspection list:

City of Plymouth:

Plymouth Interceptor Emergency Repairs

Contact me at 952-832-2784 (<u>jherbert@barr.com</u>) or Kim Johannessen at 952-832-2686 (<u>kjohannessen@barr.com</u>) if you have questions regarding these comments.

Sincerely,

James P. Herbert

Barr Engineering Co.

and Herbert

Engineers for the Bassett Creek Watershed Management Commission

c: Jeff Oliver, City of Golden Valley Paul Chellsen, City of Minneapolis

Dennis Daly, City of Minneapolis

Patrick Hanlon, City of Minneapolis

Bob Moberg, City of Plymouth



June 2, 2011

Andrea Weber Landscape Architect Minneapolis Park and Recreation Board 2117 West River Road Minneapolis, MN 55422-2224

Re: Wirth Lake Water Quality Pond Control Structure

Dear Ms. Weber:

We have reviewed the plan for the proposed modification of the control structure for the Wirth Lake Water Quality Pond dated May 26, 2011 prepared by WSB and Associates. The plan is intended to control seepage and prevent piping along the sides or under the box culvert. We have the following comments:

- In our opinion it is unlikely that the proposed modification will provide an effective seepage barrier for the life of the structure. There may be existing voids under the Geo Foam foundation and voids may develop in the future, since the structure has a foundation that includes organic soils which can be subject to consolidation. We recommend that the design of the seepage barrier be modified to prevent seepage and piping due to existing or future voids under the structure.
- Because the foundation of the structure consists of organic soils there is the potential for settlement with consolidation of the foundation materials. In our opinion, the proposed seepage barrier could fail if the structure settles. We recommend that the proposed seepage barrier be designed to anticipate future settlement of the structure.
- In our opinion, the seepage barrier should be located on the upstream side (west side) of the embankment to minimize saturation of the embankment.

Please provide a copy of the revised plan for review.

Sincerely,

Len Kremer

Barr Engineering Co.

Engineers for the Bassett Creek Watershed Management Commission

4700 West 77th Street Minneapolis, MN 55435 952-832-2781

c: Linda Loomis Chair BCWMC Geoff Nash Charlie LeFevere Jeannine Clancy Jeff Oliver

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Three Rivers
Park District
Board of
Commissioners

May 18, 2011

AMLAC Board of Directors Terrie Christian, President 9910 South Shore Drive Plymouth, MN 55441

Sara Wyatt District 1 Dear AMLAC Board of Directors:

Marilynn Corcoran, District 2 In acknowledgment of your May 10, 2011, letter, I thought it would be helpful to provide AMLAC members the details of our exemplary boat inspection program at the French Regional Park boat launch and again to invite AMLAC members to participate as volunteers to even further expand our inspection schedules. We believe that our current program of enhanced watercraft inspection and boater education at multiple launches is the Park District's most effective strategy to assist in the prevention of AIS infestations in Medicine Lake as well as in the other lakes in the region and state.

Joan Peters District 3

Three Rivers was successful in obtaining a small state grant to enhance the watercraft inspection program at our Medicine Lake boat launch. As a result, we will have the funding necessary to staff the entry gate on weekdays from 9:00 A.M. to 9:00 P.M. and on weekends from 9:00 A.M. to 8:00 P.M. Our past experience with park use has shown that the majority of boats enter the park during these hours. In addition to inspecting boats, our staff also will distribute informational brochures informing park guests of the concerns about aquatic invasive species. Educational and regulatory signage is in place at all boat launches and additional information is available at the Park District's web site: www.threeriversparks.org/activities/boating.aspx.

Dale Woodbeck, Vice Chair District 4

We are again extending an invitation to AMLAC members to join the Park District volunteer watercraft inspection program as a means of further increasing inspection coverage. As you are aware, Three Rivers organized a lake inspection volunteer program and invited lake association members from Fish Lake, Lake Independence and Medicine Lake to attend a training session conducted by the DNR Watercraft Inspection Program on May 12, 2011. We had volunteers attend from Fish Lake and Lake Independence Associations, but did not have any responses from AMLAC members. The Park District will be scheduling a second watercraft inspection training session in the near future. Please contact Rich Brasch, Senior Manager of Water Resources at 763-694-2061, if any of your members are interested in attending the next session.

John Gibbs District 5

We continue to believe that effective AIS control is best implemented on a statewide or regional basis. For instance, an infested boat turned away from Medicine Lake by a closed access could simply launch at an alternate site and spread the invasive species to that lake. And, as the number of infested lakes in the area increases, the risk of an infestation in Medicine Lake also increases. Focusing too exclusively on Medicine Lake could, therefore, be counterproductive

Larry Blackstad, Chair Appointed

> Barbara Kinsey Appointed

Cris Gears Superintendent to the Park District's overall AIS control objectives of minimizing the spread of AIS to all area lakes.

To encourage additional state or regional discussion about Medicine Lake, we suggest that you consider inviting the public officials that you have communicated with to an AIS Forum. The Park District continues to be active in various scientific and political discussions about AIS control, and would welcome the opportunity to attend a discussion forum hosted by AMLAC.

Sincerely,

Sara Wyatt Commissioner

District 1

CC: City of Plymouth

City of Medicine Lake

Bassett Creek Watershed management Organization

Hennepin County Commissioners

Metropolitan Council

Minnesota DNR

Senator Terri Bonoff

Representative Sarah Anderson

Three Rivers Board of Commissioners

Cris Gears, Superintendent, TRPD