



Bassett Creek Watershed Management Commission

A g e n d a

11:30 a.m., Thursday, January 20, 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 December 16th meeting minutes ***
 - B. **Presentation of Financial Statements ***
 - C. **Presentation of Invoices for Payment Approval**
 - i. **Kennedy & Graven – Legal Services through December 8, 2010**
 - ii. **Barr Engineering – Engineering Services through December 31, 2010**
 - iii. **Watershed Consulting, LLC – Geoff Nash Administrator Services through December 31, 2010**
 - iv. **Amy Herbert – December Administrative Services**
 - v. **D'amico-ACE Catering – January 2011 Meeting Catering**
 - vi. **Metropolitan Council Environmental Services – 2010 CAMP Participation**
 - vii. **JASS – BCWMC portion of WMWA Administrative Costs for 2010**
 - viii. **Minneapolis Park and Recreation Board – 2010 WOMP Costs**
 - ix. **Hennepin County Environmental Services – 2010 River Watch**
 - x. **Rice Creek Watershed – 2010 Blue Thumb Membership**
 - xi. **Prairie Moon Nursery – Education and Outreach – Native Seed Packets**
 - xii. **JASS – Education and Outreach - Printed Labels for Seed Packets**
 - xiii. **State Register – Public Communications – Request for Letters of Interest**
 - xiv. **CNA Surety – Annual Bond/ Policy**
 - xv. **City of Golden Valley – 2010 Financial Services Fee**
 - D. **Resolution 11-01 to Appoint the BCWMC's Official Depositories**
 - E. **Resolution 11-02 to reimburse the BCWMC 2.5% of 2010 tax levy for the BCWMC's 2010 administrative expenses associated with CIP Projects and to approve transfer of the funds from the CIP Account to the Administrative Account.**
 - F. **2011 Blue Thumb Partners' Agreement**
 - G. **Approval of Contract with MMKR – Certified Public Accountants – for Annual Audit**
 - H. **Education & Outreach Committee** (*see memo by Pauline Langsdorf and WMWA attachment*)
 - i. **Request to Participate in 2011 WMWA Costs for Seminars**
 - ii. **Request to adjust BCWMC's 2011 Operating Budget at February meeting to Increase Education / Outreach Budget to Cover BCWMC's portion of WMWA Seminar Costs**
5. **NEW BUSINESS**
 - A. **Letters of Interest for Legal and Engineering and Technical Services** (*verbal update*)
 - B. **Wirth Lake 2010 Improvements** (*see Barr Engineering memo and map*)
6. **OLD BUSINESS**
 - A. **TAC Recommendations** (*see TAC memo and CIP table*)
 - i. **Capital Improvement Plan (CIP) Project Modification Recommendations**
 - ii. **Recommendation for BCWMC Representative on MPCA's Chloride Project**
 - iii. **Status of Hydrologic and Water Quality Monitoring from Barr**
 - B. **BCWMC Comments on Mn/DOT's Environmental Assessment/ EA Worksheet for its Interstate 494 Expansion Project in Minnetonka, Plymouth, & MapleGrove** (*see Barr memo*)

(Agenda continued)

- C. Wirth Lake Outlet Modification Clean Water Legacy Grant Update**
- D. Next Generation Planning Process**
- E. Education Committee: BCWMC's Web Site**

7. COMMUNICATIONS

- A. Chair**
- B. Administrator**
- C. Commissioners**
- D. Committees**
- E. Counsel**
- F. Engineer**

8. INFORMATION ONLY

9. ADJOURNMENT

Bassett Creek Watershed Management Commission

Minutes of the Meeting of December 16, 2010

1. Call to Order

The Bassett Creek Watershed Management Commission (BCWMC) was called to order at 11:36 a.m., on Thursday, December 20, 2010, at Golden Valley City Hall by Chair Loomis. Ms. Herbert conducted roll call.

Roll Call

<i>Crystal</i>	Commissioner Pauline Langsdorf, Secretary	<i>Administrator</i>	Geoff Nash
<i>Golden Valley</i>	Commissioner Linda Loomis, Chair	<i>Counsel</i>	Charlie LeFevere
<i>Medicine Lake</i>	Commissioner Ted Hoshal	<i>Engineer</i>	Karen Chandler
<i>Minneapolis</i>	Commissioner Michael Welch, Treasurer	<i>Recorder</i>	Amy Herbert
<i>Minnetonka</i>	<i>Not represented</i>		
<i>New Hope</i>	Commissioner John Elder		
<i>Plymouth</i>	Commissioner Ginny Black, Vice Chair		
<i>Robbinsdale</i>	Commissioner Wayne Sicora		
<i>St. Louis Park</i>	Commissioner deLambert		

Also present: Laura Adler, BCWMC Technical Advisory Committee, City of St. Louis Park
Derek Asche, BCWMC Technical Advisory Committee, City of Plymouth
Brooke Asleson, Minnesota Pollution Control Agency (MPCA)
Jack Frost, Metropolitan Council Environmental Services
Richard McCoy, BCWMC Technical Advisory Committee, City of Robbinsdale
Jeff Oliver, BCWMC Technical Advisory Committee, City of Golden Valley
Stu Stockhaus, Alternate Commissioner, City of Crystal
Liz Stout, BCWMC Technical Advisory Committee, City of Minnetonka
Liz Thornton, Alternate Commissioner, City of Plymouth

2. Approval of Agenda and Consent Agenda

Commissioner Welch requested that the minutes be removed from the Consent Agenda. Commissioner Welch moved to approve the Agenda and the amended Consent Agenda. Commissioner Black seconded the motion. The motion carried unanimously with eight votes in favor [City of Minnetonka absent from vote].

3. Citizen Input on Non-Agenda Items

No citizen input on non-agenda items.

4. Administration

- A. Presentation of the November 17, 2010, BCWMC meeting minutes. Commissioner Welch had a few questions stemming from discussions recorded in the November meeting minutes. His questions were answered by staff and the Commission. One action was directed to Karen Chandler and included that the memo being written by Barr Engineering regarding modeling and that will be part of the BCWMC's Technical Advisory Committee discussion at its January 6th meeting will be e-mailed to the Commission when it is e-mailed to the TAC. Commissioner Black moved to approve the November 17, 2010, meeting minutes. Commissioner Elder seconded the motion. The motion carried unanimously with eight votes in favor [City of Minnetonka absent from vote.]

B. Presentation of the Financial Statement.

Ms. Herbert handed out copies of the December 2010 financial report. Commissioner Welch walked the Commission through a brief review of the fiscal year 2010 budget to-date. Commissioner Elder moved to receive and file the financial report. Commissioner Black seconded the motion. The motion carried unanimously with eight votes in favor [City of Minnetonka absent from vote]. The general and construction account balances reported in the December 2010 Financial Report are as follows:

Checking Account Balance	458,429.92
<i>TOTAL GENERAL FUND BALANCE</i>	458,429.92
Construction Account Cash Balance	3,116,040.76
Investment due 5/13/2015	508,918.39
<i>TOTAL CONSTRUCTION ACCOUNT BALANCE</i>	3,116,040.76
<i>-Less: Reserved for CIP projects</i>	3,817,884.61
<i>Construction cash/ investments available for projects</i>	<i>(192,925.46)</i>

C. Presentation of Invoices for Payment Approval.

Invoices:

- i. Kennedy & Graven – Legal Services through October 31, 2010 - invoice for the amount of \$1,857.70.
- ii. Barr Engineering Company – Engineering Services through November 26, 2010 - invoice for the amount of \$25,654.21.
- iii. Watershed Consulting, LLC – Geoff Nash Administrator Services through November 30, 2010 – invoice for the amount of \$3,406.08.
- iv. Amy Herbert – November Recording Administrator Services - invoice for the amount of \$3,699.29.
- v. D'amico Catering – December Meeting Catering - invoice for the amount of \$443.26.
- vi. City of Golden Valley – Reimbursement for Creek Walk Expenses - invoice for the amount of \$149.29.

Commissioner Welch commented that the Commission should communicate to the Deputy Treasurer regarding the allocation of the Creek Walk expenses. He suggested that the transportation portion of the expenses come out of the secretarial services budget line and the food portion of the expenses come out of the meeting catering budget line. The Commission agreed. Commissioner Black moved to approve payment of all invoices. Commissioner deLambert seconded the motion. By call of roll the motion carried unanimously with eight votes in favor [City of Minnetonka absent from the vote].

- D. Resolution 10-09 to Authorize Deputy Treasurer to Transfer Funds from the BCWMC Administrative Account to the TMDL, Long-term Maintenance, and Channel Erosion Accounts. Commissioner Black moved to approve Resolution 10-09. Commissioner Langsdorf seconded the motion. Mr. LeFevre remarked that the resolution contains the word “fund” when the resolution title contains the word “account” and recommended that the words be consistent in the title and the body of the resolution. Commissioner Welch recommended a friendly amendment to the motion on the table that in Resolution 10-09 the word “fund” that ends the sentences of numbers 1, 2, and 3 be removed and replaced with

the word “account.” Commissioners Black and Langsdorf approved of the friendly amendment. The motion carried unanimously with eight votes in favor [City of Minnetonka absent from vote].

5. New Business

- A. **Discussion with Brooke Asleson, MPCA, on the Twin Cities Metropolitan Area Chloride Project.** Ms. Asleson explained that she provided a summary of the draft project work plan for the meeting packet for the Commission’s review. She said the plan has not yet been finalized. She stated that the Minnesota Pollution Control Agency (MPCA) started the project as a feasibility study. Ms. Asleson reported that the MPCA contracted with Wenck to do the study and that the study took a look at the Twin Cities metro area and how chloride is affecting the area and how chloride effects could be addressed on a regional scale.

Ms. Asleson reviewed highlights of the study, including the recognition that more data needs to be collected on chloride in the winter months and not just during the typical May through September monitoring season. She said that another important issue discovered through the study was that lake data show that higher chloride concentrations are in the deepest part of the lakes but most lake sampling targets surface sampling.

Ms. Asleson said that a team at the MPCA discussed the feasibility study and its findings and developed three possible approaches to move forward. She said that the next phase, or Phase 2, actually combines the three approaches. Ms. Asleson stated that Phase 2 will include developing a chloride management plan for the seven-county metro area. She said that the MPCA and partners will conduct additional monitoring over the next three years. Ms. Asleson commented that the MPCA is doing a surface and a deep water sample of Medicine Lake as well as a conductivity profile of the entire lake. She noted that the Minneapolis Park and Recreation Board is doing the same sampling of Wirth Lake and she mentioned that Sweeney Lake is also on the list for sampling. Ms. Asleson explained that the MPCA created a list of all of the lakes in the Twin Cities and developed a list of criteria or factors that may be causing those lakes to be more sensitive or have a higher priority in regard to chloride. She said that using the criteria, 75 lakes were identified by the MPCA as the focus for collecting monitoring data in collaboration with eight partners.

Ms. Asleson said that the data collected will be used to help create the chloride management plan, which will be a protection plan that will include all waters. She said the second part of the management plan will be to create a TMDL for all of the waters that exceed the standard for chloride. Ms. Asleson commented that there will be an implementation plan for the entire metro area.

Ms. Asleson explained that the MPCA has created a stakeholder group that comprises several different teams. She encouraged the Commission to appoint a representative to the project’s technical stakeholder group. Ms. Asleson stated that the TAC would be a small group of 11 or 12 people who would provide technical guidance on the modeling and the data analysis. She said that the group would meet quarterly over the next three or four years and that the next meeting will be in spring 2011.

Commissioner Hoshal asked if the Commission could get a list of the project’s monitoring points. Ms. Asleson said that the MPCA is putting together a monitoring plan for the project and the plan will be posted on the MPCA’s project Web site. Commissioner Black had questions about salt’s impact on aquatic plants. Ms. Asleson said that the MPCA’s research found that there is not a lot of data on the impact of chloride on lake biota or wetlands. Commissioner Black asked about what impact the salt is having on the fisheries since the chloride is collecting in the deep parts of

the lakes. Ms. Asleson said that the MPCA can't answer that question and won't be able to do so through this project, but she said that the MPCA will assemble a white paper as part of the project.

Commissioner Welch commented that the summary of the project that was given to the Commission was very well put together. He asked if the United States Environmental Protection Agency (U.S. EPA) has given feedback about the MPCA's approach. Ms. Asleson said that the U.S. EPA is positive and is looking for this approach to be a model for all cold weather states. She said that the MPCA will be keeping the U.S. EPA updated on the project.

Commissioner Welch voiced a concern that a lot of work will be going into the project and perhaps five years later there would be an inability to change road salt practices due to public safety issues. Ms. Asleson said that one of the project's components is education. She said that the MPCA will be developing an educational tool box for groups to use. Ms. Asleson gave a high recommendation of the road salt application training sessions put on by Fortin Consulting.

Mr. Oliver recommended that the MPCA involve the Minnesota Public Works Association in the stakeholder process.

Commissioner Welch asked how many chloride impairments are currently listed in the metro area. Ms. Asleson responded that there 11 waterbodies listed with chloride impairments in the metro area. Commissioner Welch asked if the MPCA has an official position regarding individual TMDLs being conducted. Ms. Asleson replied that the MPCA has changed its approach and the approach is now to use WRAPP, or Watershed Restoration and Protective Plans, which are watershed-wide.

Commissioner Sicora asked if Shingle Creek Watershed is represented on the project's Technical Stakeholder Committee. Ms. Asleson said that no, it's not and the reason is because the MPCA thought that Shingle Creek could be part of the implementation stakeholder group.

Commissioner Welch suggested that the Commission direct its TAC to discuss at its January meeting whether the BCWMC should participate by appointing a representative to the project's technical stakeholder group and then who would the TAC recommend appointing. The Commission agreed.

- B. 2010 Flood Control Project Inspection.** Ms. Chandler explained that Barr Engineering staff conducted the inspections and invited member-city staff to participate and that this year Golden Valley staff member Eric Eckman participated in the inspections in Golden Valley. Ms. Chandler reported that with the early onset of winter weather not all culverts and crossings were inspected due to unsafe conditions. She said that the inspection report details the inspection findings and that the majority of the issues comprise the need for tree removal or sediment removal. Commissioner Black voiced a concern about erosion issues that might arise due to tree removal. Ms. Chandler explained that tree removal typically means the removing of trees to prevent them from falling into the creek or blocking the flow of the creek. Ms. Chandler requested Commission direction to Barr Engineering to send the inspection report to the cities, the Department of Natural Resources (DNR), and the U.S. Army Corps of Engineers (Corps). Commissioner Black moved for the Commission Engineer to forward the inspection report to the member cities, the DNR, and the Corps. Commissioner Welch seconded the motion. The motion carried unanimously with eight votes in favor [City of Minnetonka absent from vote].

6. Old Business

A. City of Plymouth Final Reimbursement Request for West Medicine Lake Park Pond

Project. Ms. Chandler reported that the construction of the project is complete and that this request is the final reimbursement request from the City of Plymouth for the project. She explained that the Commission Engineer reviewed the documents submitted with the reimbursement request and found everything to be in order. Ms. Chandler said that there are funds remaining in the project budget and that the Commission Engineer recommends approval of the reimbursement to the City of Plymouth for the requested amount of \$20,643.37. Commissioner Black moved to approve the reimbursement to the City of Plymouth for the requested amount of \$20,643.37. Commissioner Langsdorf seconded the motion. By call of roll the motion carried with eight votes in favor [City of Minnetonka absent from vote]. Commissioner Welch asked if photos of the project could be sent to the Commission. Mr. Asche said yes. Mr. Asche also expressed his deep appreciation for the Commission's support on the project.

- B. TMDL Updates.** Mr. Nash reported that the U.S. EPA approved the Wirth Lake TMDL. He said that the Medicine Lake TMDL was sent to the U.S. EPA. Mr. Nash reported that there are no updates regarding the Sweeney Lake TMDL. Mr. Nash opened up discussion on the issue of the Commission's role in categorical TMDLs. Ms. Chandler added that there are two directions in which the Commission could head regarding a monitoring roles for the Commission as the lead entity in the categorical TMDL. She said that the Commission could pursue monitoring in terms of the chemical monitoring and monitoring in terms of oversight. Chair Loomis said that she thinks the TAC should discuss the issue. She said that she had asked Ms. Chandler to work up some costs that would be involved with the water quality monitoring involved with TMDLs and how the monitoring program and costs would coordinate with the Commission's monitoring program that's in place. Ms. Loomis said that she would like that information to be provided to the TAC for the TAC's discussion at the next TAC meeting. She said that the Commission has put a lot of items on the TAC's agenda and the TAC would either need to have a longer meeting or would need to hold monthly meetings until they get through all of the items.

Commissioner Welch suggested that the Commission come up with two different names in order to eliminate confusion. He said that monitoring should be the term used for sampling lakes and streams and analyzing the samples, and oversight or administrative oversight could be the term used for the administrative side of the role of the categorical TMDL implementer. He commented that this effort is closely related to how the Commission will integrate the TMDL implementation projects into its capital projects and budget. Commissioner Welch recommended that the Administrative Committee meet with some members of the TAC to talk about how to move forward.

Commissioner Black moved for the Commission to authorize the Commission Engineer to pull together an evaluation of the monitoring that is being done and for the evaluation to be submitted to the TAC for its review at its next meeting. Commissioner Welch seconded the motion. The motion carried unanimously with eight votes in favor [City of Minnetonka was absent from vote].

Commissioner Black expressed her viewpoint that the Commission should work toward an oversight process that will not create a whole lot of new reporting work for the cities but instead will build off of the processes already undertaken by the cities. She said that she thinks it will take a fair amount of Commission discussion to understand the cities' processes and to develop a Commission oversight plan. Commissioner Black said that she supports the idea of a joint committee of the Commission and the TAC.

Mr. LeFevere commented that what the Commission decides to do with its categorical TMDL implementer role may have a lot of influence on what the Next Generation Management Plan looks like and how other TMDLs are incorporated into the Plan or vice versa. Commissioner Welch said he agreed but that the Commission did tell the MPCA that the Commission will be the coordinating entity and will work with the member cities to achieve efficiency of how data is

collected and reported and to harmonize and streamline the process of reporting to the MPCA. Commissioner Welch added that there is an approach currently out there regarding TMDLs that addresses TMDLs by saying that Watershed Management Plans covers TMDL requirements under the 4B category of Federal Statute. He said that at some point the Commission may look into the approach.

Mr. Oliver recommended that the TAC discuss the issue and assess and make a recommendation to the Commission on whether or not there should be another work group. Ms. Stout added that the MPCA has created a work group to address how to integrate TMDL reporting into MS4 permitting processes and that she is a part of the work group and she will update the Commission on the progress of the work group.

Mr. Oliver stated that the Commission has the opportunity to set the expectations of and to define the role of the categorical TMDL implementer. Mr. LeFevere stated that the Commission could be the first one in the door regarding assuming the role of the categorical TMDL implementer and the Commission could structure the role in the way that works for the Commission. Commissioner Welch commented that he thinks there should be a work group to discuss how the Commission wants to develop its role. Commissioner Black suggested that interested commissioners could attend the TAC meetings when the issue is on the TAC's agenda instead of setting up a separate work group and work group meetings.

Ms. Chandler stated that it would take some time for Barr Engineering to pull together the water quality monitoring information and evaluation and to investigate where modeling could be used in place of monitoring. Chair Loomis directed the Commission Engineer to work with the Administrator to determine which TAC meeting will include the issue on the agenda and to communicate that meeting date to the Commission. She also said that it would be good for interested commissioners to attend that TAC meeting to participate in the discussion or for commissioners to leave their comments and concerns with the Administrator, who can present them at the meeting.

- C. **Update on BCWMC's Clean Water Legacy Grant Applications.** Ms. Chandler said that the Minnesota Board of Water and Soil Resources (BWSR) awarded the Commission a grant for its Wirth Lake Outlet Modification Project, which was one of the three projects the Commission submitted applications for the grant funds. Ms. Chandler reported that the Commission requested a grant amount of \$75,000 for the Wirth Lake Outlet project and was awarded that amount by BWSR. Ms. Chandler reminded the Commission that the two other Commission projects that were submitted for grant funds were the Bassett Creek Main Stem restoration project and the North Branch Main Stem project and said that these two projects did not receive high enough rankings to qualify for the grant funds. Administrator Nash said that he called Brad Wozney of BWSR for details on the awards and project rankings. Administrator Nash said that Mr. Wozney commented that BWSR hadn't yet organized any summary of the process but that he personally wondered if the Commission had gone to the Minnesota Department of Natural Resources to build support for these streambank restoration projects. Ms. Chandler said that the list of the applicants and projects reviewed by BWSR is available on the BWSR Web site.
- D. **Next Generation Planning Process.** Ms. Chandler explained that she prepared a memo and a flow chart of a draft process as a starting point for the Commission's discussion and that the memo and flow chart were included in the meeting packet. She stated that in Step B as illustrated in the flow chart the word Commission should be added regarding issue identification so that the step would read, "...review of Commission-/ TAC-identified issues and identification of additional issues." Ms. Chandler walked the Commission through the steps identified in the flow chart. The Commission discussed the steps as illustrated, discussed some points of the previous *Watershed Management Plan* planning process, and discussed some differences that they anticipate between

the previous planning process and this one.

Commissioner Welch commented that he thought that there are important challenges to the job of protecting water quality through partnerships that the Commission needs to tackle in the planning process such as the challenge of invasive species. He thinks that this process should have everyone who is involved moving together instead of breaking up in to so many separate groups that move parallel to each other. Commissioner Welch also commented he doesn't think the citizen's group should be a separate group because the goal is to have the citizens involved and asking questions about policy and technical issues. Ms. Chandler added that it was her intent to identify in step G that the Planning Advisory Group would include commissioners as well as alternate commissioners as well as residents, citizens, agencies, and everyone the commission wants on board. The Commission agreed that it thinks it is heading down the right path in the process so far.

[Commissioner Elder departs meeting]

7. Communications

A. Chair:

- i. Chair Loomis reported that the City of Golden Valley signed the contract for the Bassett Creek Restoration project with Minnesota DirtWorks.
- ii. Chair Loomis announced that there will be a Mississippi River Forum tomorrow, December 17th, at 8:00 a.m. at the McKnight Center and the discussion will be about the Minnesota Framework.
- iii. Chair Loomis said that the Minneapolis Park and Recreation Board has reconvened the citizen's advisory committee that was developed to discuss the Wirth Beach in the Theodore Wirth Park. She explained that the scope of the Committee has been expanded to cover the entire park. Chair Loomis said there has been a proposal put forward by the Nordic Ski Foundation recommending improvements including trails and bridges and she explained that these improvements could impact the creek. She said that the work plan is online at the Minneapolis Park and Recreation Board Web site and that the City of Golden Valley has a copy of the Nordic ski Foundation recommendation. Chair Loomis noted that the meetings of the Theodore Wirth Park Citizen's Advisory Committee are open to the public and that the process is identified on the Web site.
- iv. Chair Loomis reported that the BCWMC's request for letters of interest for its legal and engineering and technical consultant work will be published in the December 20th issue of *Finance and Commerce*.

B. Administrator:

- i. Administrator Nash announced that the first draft of the BCWMC's policy manual is being reviewed by the Administrative Services Committee and the Committee is planning to meet in mid-January to discuss it.
- ii. Administrator Nash reported that he registered the Bassett Creek Web site's domain name in the Commission's name.
- iii. Administrator Nash said he worked with Commissioner Langsdorf on the distribution of the stickers that needed to be added to the snow and ice removal brochures.

- iv. Administrator Nash said that he attended the Minnesota Association for Watershed Districts meeting in Alexandria, Minnesota.
- v. Administrator Nash stated that he received in the mail a copy of a request from the Department of Natural Resources for review and comment on the Minneapolis Park Board's request to put down sand on Wirth Beach. He said he passed the request on to Barr Engineering.
- vi. Administrator Nash said that he provided Joel Settles of Hennepin County with the approximate start dates of the two streambank restoration projects so that he can communicate the update to the Hennepin County Board of Commissioners.
- vii. Administrator Nash reported that MetroBlooms received the Civilian Conservation Corps grant in the form of five crew days and 250 labor hours. He explained that he had prepared and submitted the grant application on behalf of MetroBlooms because the applicant needed the Commission as the primary sponsor.

C. Commissioners:

- i. Commissioner Black updated the Commission about the WalMart project in the City of Plymouth at the Four Seasons Mall site and explained how it may impact the project in the Commission's CIP for 2013.
- ii. The topic of the Meadowbrook Elementary Education Grant deadline was raised. Commissioner Black moved to extend the deadline of the contract to May 2011. Commissioner Langsdorf seconded the motion. The motion carried unanimously with seven votes in favor. [Cities of Minnetonka and New Hope absent from vote]. Mr. LeFevere stated that the Commission could handle the extension by Administrator Nash sending a letter to Meadowbrook Elementary to inform the grantee that the deadline for the contract has been extended to May 2011.

D. Committees:

Education Committee

- i. Commissioner Langsdorf announced that the Education Committee will not have a rough draft of the Education and Outreach Plan ready for the TAC's review at its January meeting. She said the Committee has more work to do on the plan and will update the Commission on the progress.
- ii. Commissioner Langsdorf reported that the West Metro Watershed Alliance (WMWA) met earlier this week and began developing workshops on development practices including infiltration and volume management – one for urban/ suburban areas and one for suburban/ rural areas, and nutrient management and retrofitting best management practices – one for urban/ suburban areas and one for suburban/ rural areas. She said those workshops would be held in March and in May 2011. Commissioner Langsdorf said that another workshop would be developed on the topic of TMDLs and watershed planning to occur in September 2011. She added that Derek Asche has volunteered to be a speaker and she asked that if others know of speakers who would volunteer their time to present at the workshops to please let her and WMWA know. Commissioner Langsdorf said the workshop planning will continue at WMWA's January meeting.

- iii. Commissioner Langsdorf said that WMWA has spoken over the phone with a staff member at the Nine Mile Creek Watershed District regarding issues and changes to the District's snow and ice care brochure.
- iv. Commissioner Langsdorf reported that WMWA discussed and made the decision that a membership status with WMWA means that the group or individual provides monetary support to WMWA and that partnership status means that the group or individual provides resources to WMWA but not monetary support.
- v. Commissioner Langsdorf requested that the January meeting agenda include a business item for the Commission to discuss the BCWMC's Web site. The Commission consented.
- vi. Commissioner Black explained that the Education Committee would like the BCWMC to participate again in the City of Plymouth's Yard and Garden Expo, held in the spring. She moved to have staff send in the registration and booth fee at a cost not to exceed \$60. Commissioner Langsdorf seconded the motion. The motion carried unanimously with eight votes in favor [City of Minnetonka absent from vote].
- vii. Commissioner Hoshal said that the Education and Public Outreach Committee will be communicating to the Committee through Administrator Nash as a way to comply with the Open Meeting Law.

E. Counsel: No Communications.

F. Engineer: No Communications.

8. Adjournment

Chair Loomis adjourned the meeting at 2:08 p.m.

Linda Loomis, Chair Date

Amy Herbert, Recorder Date

Pauline Langsdorf, Secretary Date

BEGINNING BALANCE	9-Dec-10		458,429.92
ADD:			
General Fund Revenue:			
Interest		24.23	
League of MN Cities	Ins Dividend	1,089.00	
2012	2011-12 Assessments:		
	Golden Valley	109,230.00	
	Crystal	23,433.00	
	Reimbursed Construction Costs	2,415.50	
	Total Revenue and Transfers In		136,191.73
DEDUCT:			
Checks:			
2302 Barr Engineering	Dec Engineering Services	40,367.08	
2303 D'Amico Catering	Jan Meeting	448.41	
2304 Amy Herbert	Dec Secretarial Services	3,921.27	
2305 Kennedy & Graven	Nov Legal Services	1,189.20	
2306 Watershed Consulting	Dec Administrator Services	3,000.00	
2307 City of Golden Valley	Finanical Services	3,000.00	
2308 Henn Cty Dept of Envir Serv	River Watch	2,000.00	
2309 JASS	WMWA Admin/Labels	2,041.06	
2310 Metropolitan Council	Citizen Monitoring Prog	4,150.00	
2311 Mpls Park & Recr Board	2010 WOMP	1,931.00	
2312 Prairie Moon Nursery	Seed Packets	269.33	
2313 Rice Creek Watershed Dist	Blue Thumb Membership	1,000.00	
2314 State Registrar	Public Communication	69.40	
2012	2315 CNA Surety	Surety Bond - 2011	100.00
	Total Checks		63,486.75
Transfers:			
EROSION/SEDIMENT (CHANNEL MAINT)		25,000.00	
LONG TERM MAINTENANCE		25,000.00	
TMDL STUDIES		10,000.00	
	Total Transfers		60,000.00
ENDING BALANCE	12-Jan-11		471,134.90

	2010/2011 BUDGET	CURRENT MONTH	YTD 2010/2011	BALANCE
OTHER GENERAL FUND REVENUE				
ASSESSEMENTS	414,150	0.00	414,150.00	0.00
PERMIT REVENUE	55,000	0.00	22,000.00	33,000.00
REVENUE TOTAL	469,150	0.00	436,150.00	33,000.00
EXPENDITURES				
ENGINEERING				
ADMINISTRATION	110,000	16,529.59	115,948.71	(5,948.71)
PLAT REVIEW	60,000	775.00	45,828.00	14,172.00
COMMISSION MEETINGS	13,000	490.00	11,104.50	1,895.50
SURVEYS & STUDIES	20,000	1,771.50	24,124.50	(4,124.50)
WATER QUALITY/MONITORING	20,000	15,199.70	24,106.45	(4,106.45)
WATER QUANTITY	11,000	857.00	7,815.00	3,185.00
WATERSHED INSPECTIONS	8,000	2,258.50	10,510.00	(2,510.00)
ANNUAL FLOOD CONTROL INSPECTIONS	10,000	0.00	5,713.50	4,286.50
REVIEW MUNICIPAL PLANS	4,000	0.00	7,927.00	(3,927.00)
ENGINEERING TOTAL	256,000	37,881.29	253,077.66	2,922.34
ADMINISTRATOR	15,000	3,000.00	26,501.98	(11,501.98)
LEGAL COSTS	18,500	998.20	15,312.81	3,187.19
AUDIT, INSURANCE & BONDING	15,000	0.00	13,407.00	1,593.00
FINANCIAL MANAGEMENT	3,000	3,000.00	3,053.55	(53.55)
MEETING EXPENSES	5,000	448.41	4,610.00	390.00
SECRETARIAL SERVICES	45,000	3,803.87	37,826.82	7,173.18
PUBLICATIONS/ANNUAL REPORT	4,000	0.00	5,168.50	(1,168.50)
WEBSITE	4,500	456.00	916.75	3,583.25
PUBLIC COMMUNICATIONS	3,000	69.40	691.62	2,308.38
WOMP	10,000	1,931.00	6,187.50	3,812.50
DEMONSTRATION/EDUCATION GRANTS	5,000	0.00	180.00	4,820.00
EDUCATION AND PUBLIC OUTREACH	4,000	2,233.08	2,911.41	1,088.59
WATERSHED EDUCATION PARTNERSHIPS	15,000	7,150.00	16,150.00	(1,150.00)
EROSION/SEDIMENT (CHANNEL MAINT)	25,000	25,000.00	25,000.00	0.00
LONG TERM MAINTENANCE (moved to CF)	25,000	25,000.00	25,000.00	0.00
TMDL STUDIES (moved to CF)	10,000	10,000.00	10,000.00	0.00
GRAND TOTAL	463,000	120,971.25	445,995.60	17,004.40

BCWMC Construction Account		
Fiscal Year: February 1, 2010 through January 31, 2011		
January 2011 Financial Report		
Beginning Balance	9-Dec-10	\$3,116,040.76
ADD:		
Market Value Homestead Credit		13,132.12
Interest		164.69
Transfers from General Fund:		
EROSION/SEDIMENT (CHANNEL MAINT)		25,000.00
LONG TERM MAINTENANCE		25,000.00
TMDL STUDIES		10,000.00
		73,296.81
DEDUCT:		
Construction Costs		2,415.50
		2,415.50
Ending Balance:	12-Jan-11	\$3,186,922.07
Investments		
Federal Home Loan Mtg Corp - Purchased 8/12/10 - Due 5/13/2015 - 0.45% (Current mkt value \$504,065.00)		508,918.39
Total Investments		508,918.39
Construction Account - Cash Balance (detailed above)		3,186,922.07
Total: Construction Fund Cash/Investments		3,695,840.46
Less: Reserved for CIP Projects		3,815,469.11
Construction Cash/Investments Available for projects		(\$119,628.65)

BCWMC Second Generation Projects	Budget	Current	YTD	Project Total	Balance
Approved CIP Projects:					
2006 Parkers Lake Water Quality Project	56,000	0.00	52,486.60	55,920.84	79.16
Twin Lake-expected completion 2006	140,000	0.00	0.00	5,724.35	134,275.65
Westwood Lake - will closed in 2010	312,000	0.00	0.00	225,864.90	86,135.10
Proposed CIP Projects:					
Lakeview Park Pond-expected completion 2007		0.00	0.00	637.50	(637.50)
West Medicine Lake Park Pond	1,100,000	210.00	721,929.52	744,633.58	355,366.42
Budget increase Resolution 08-07 (200,000)					
Northwood Lake East Pond	107,250	0.00	0.00	71,831.27	35,418.73
Twins Stadium	0	0.00	38.20	17,363.42	(17,363.42)
Ramada Pond (Crane Lake)	90,000	0.00	0.00	39.00	89,961.00
Plymouth Creek Restoration	550,000	2,097.30	8,134.45	36,472.65	513,527.35
Bassett Creek Feasibility Study	0	0.00	735.35	12,304.40	(12,304.40)
Plymouth Creek Feasibility	0	0.00	0.00	1,936.00	(1,936.00)
Crystal-Regent Avenue (2010 CR)	0	0.00	10,233.00	10,233.00	(10,233.00)
Wisc Ave/Duluth Street-Crystal (2011 CR)	580,200	38.20	34,803.97	34,803.97	545,396.03
North Branch (2011 CR-NB)	834,900	0.00	31,522.86	31,522.86	803,377.14
Plymouth Pond-07(NL-2)	0	0.00	602.00	602.00	(602.00)
Wirth Lake (WTH-1,2,3)	0	70.00	742.00	742.00	(742.00)
Resource Management Plan	0	0.00	1,533.00	57,094.21	(57,094.21)
TMDL Projects					
TMDL Studies	125,000	0.00	15,005.25	102,588.15	22,411.85
Sweeney Lake TMDL	119,000	0.00	25,543.00	206,555.36	(87,555.36)

Annual Flood Control Projects:					
Flood Control Emergency Maintenance	500,000	0.00	0.00	0.00	500,000.00
Flood Control Long-Term Maintenance	773,373	0.00	0.00	13,566.33	759,806.67

Annual Water Quality					
Channel Maintenance Fund	200,000	0.00	0.00	41,818.10	158,181.90
	5,487,723	2,415.50	903,309.20	1,672,253.89	3,815,469.11

Project Reimbursements					
Twins Stadium		0.00	6,564.20	26,959.64	
Sweeney Lake TMDL		0.00	0.00	154,123.94	

Tax Levy Revenues								
	County Levy	Abatements / Adjustments	Adjusted Levy	Current Received	Year to Date Received	Inception to Date Received	Balance	BCWMO Levy
2010 Tax Levy	935,000.00		935,000.00	13,003.32	919,070.00	919,070.00	15,930.00	935,000
2009 Tax Levy	800,000.00	(1,254.26)	798,745.74	128.80	3,392.71	792,112.99	6,632.75	800,000
2008 Tax Levy	908,128.08	(850.59)	907,277.49		1,108.64	902,592.25	4,685.24	907,250
2007 Tax Levy	190,601.74	(200.27)	190,401.47		101.41	189,895.88	505.59	190,000
2006 Tax Levy	531,095.47	(1,134.64)	529,960.83		134.29	528,780.98	1,179.85	519,000
2005 Tax Levy	450,401.40	(1,429.91)	448,971.49		7.74	448,712.52	258.97	438,000
					13,132.12		29,192.40	

Bassett Creek Watershed Management Commission General Account

General Fund (Administration) Financial Report

Fiscal Year: February 1, 2011 through January 31, 2012

MEETING DATE: January 20, 2011

	2011/2012	CURRENT	YTD	
	BUDGET	MONTH	2011/2012	BALANCE
OTHER GENERAL FUND REVENUE				
ASSESSMENTS	434,150	132,663.00	132,663.00	301,487.00
PERMIT REVENUE	40,000	0.00	0.00	40,000.00
REVENUE TOTAL	474,150	132,663.00	132,663.00	341,487.00
EXPENDITURES				
ENGINEERING				
ADMINISTRATION	110,000	0.00	0.00	110,000.00
PLAT REVIEW	50,000	0.00	0.00	50,000.00
COMMISSION MEETINGS	13,000	0.00	0.00	13,000.00
SURVEYS & STUDIES	20,000	0.00	0.00	20,000.00
WATER QUALITY/MONITORING	34,000	0.00	0.00	34,000.00
WATER QUANTITY	11,000	0.00	0.00	11,000.00
WATERSHED INSPECTIONS	8,000	0.00	0.00	8,000.00
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	0.00	0.00	258,000.00
ADMINISTRATOR	36,000	0.00	0.00	36,000.00
LEGAL COSTS	18,500	0.00	0.00	18,500.00
AUDIT, INSURANCE & BONDING	15,000	100.00	100.00	14,900.00
FINANCIAL MANAGEMENT	3,000	0.00	0.00	3,000.00
MEETING EXPENSES	4,750	0.00	0.00	4,750.00
SECRETARIAL SERVICES	45,000	0.00	0.00	45,000.00
PUBLICATIONS/ANNUAL REPORT	2,000	0.00	0.00	2,000.00
WEBSITE	4,500	0.00	0.00	4,500.00
PUBLIC COMMUNICATIONS	3,000	0.00	0.00	3,000.00
WOMP	10,000	0.00	0.00	10,000.00
DEMONSTRATION/EDUCATION GRANTS	5,000	0.00	0.00	5,000.00
EDUCATION AND PUBLIC OUTREACH	2,900	0.00	0.00	2,900.00
WATERSHED EDUCATION PARTNERSHIPS	16,500	0.00	0.00	16,500.00
EROSION/SEDIMENT (CHANNEL MAINT)	25,000	0.00	0.00	25,000.00
LONG TERM MAINTENANCE (moved to CF)	25,000	0.00	0.00	25,000.00
TMDL STUDIES (moved to CF)	0	0.00	0.00	0.00
GRAND TOTAL	474,150	100.00	100.00	474,050.00

Basset Creek Construction Project Details

	Parkers Lake Water Quality (Circle Pond)	Twin Lake	Westwood Lake	Flood Control Emergency Maintenance	Flood Control Long-Term Maintenance	Channel Maintenance	West Medicine Lake Park Pond	Lakeview Park Pond	Northwood Lake East Pond	Crane Lake - Ramada Inn Pond	Plymouth Creek Channel Restoration	Plymouth Creek Feasibility	Bassett Creek Feasibility	Twins Stadium	Crystal - Regent Ave	Wisc Ave (Duluth Str)- Crystal (GV)	North Branch - Crystal	Plymouth Pond NB-07 (NL-2)	Wirth Lake (WTH-1,2,3)	Resource Mgmt Plan	TMDL Studies	Sweeney Lake TMDL
Original Budget	56,000.00	140,000.00	312,000.00	500,000.00	773,373.00	200,000.00	1,100,000.00		107,250.00	90,000.00	550,000.00					580,200.00	834,900.00				125,000.00	119,000.00
Expenditures:																						
Feb 2004 - Jan 2005		1,983.50						637.50														
Feb 2005 - Jan 2006	983.75	1,716.70	11,724.12		3,954.44	2,994.75																
Feb 2006 - Jan 2007	150.00	375.70	162,645.36		9,611.89																	
Feb 2007 - Jan 2008		36.00																				
Feb 2008 - Jan 2009						38,823.35																
Feb 2009 - Jan 2010	2,300.49	1,612.45	51,495.42																			
Feb 2010 - Jan 2011	52,486.60																					
Feb 2011 - Jan 2012																						
Total Expenditures:	55,920.84	5,724.35	225,864.90		13,566.33	41,818.10	744,633.58	637.50	71,831.27	39.00	36,472.65	2,127.00	12,113.40	17,363.42	10,233.00	34,803.97	31,522.86	602.00	742.00	57,094.21	102,588.15	206,555.36
Project Balance	79.16	134,275.65	86,135.10	500,000.00	759,806.67	158,181.90	355,366.42	(637.50)	35,418.73	89,961.00	513,527.35	(2,127.00)	(12,113.40)	(17,363.42)	(10,233.00)	545,396.03	803,377.14	(602.00)	(742.00)	(57,094.21)	22,411.85	(87,555.36)

	Parkers Lake Water Quality (Circle Pond)	Twin Lake	Westwood Lake	Flood Control Emergency Maintenance	Flood Control Long-Term Maintenance	Channel Maintenance	West Medicine Lake Park Pond	Lakeview Park Pond	Northwood Lake East Pond	Crane Lake - Ramada Inn Pond	Plymouth Creek Channel Restoration	Plymouth Creek Feasibility	Bassett Creek Feasibility	Twins Stadium	Crystal - Regent Ave	Wisc Ave (Duluth Str)- Crystal (GV)	North Branch - Crystal	Plymouth Pond NB-07 (NL-2)	Wirth Lake (WTH-1,2,3)	Resource Mgmt Plan	TMDL Studies	Sweeney Lake TMDL
Project Totals By Vendor																						
Barr Engineering	2,819.94	3,758.10	11,320.87		9,549.32		7,004.91	592.50		39.00	35,603.60	1,936.00	10,604.50	12,064.49	10,233.00	34,011.32	30,730.21	602.00	56,303.21	86,258.55	79,946.32	25,543.00
Kennedy & Graven	614.30	1,966.25	503.25		24.75	354.75	1,427.15	45.00	858.45		869.05	191.00	1,508.90	5,298.93		792.65	792.65			1,145.20	2,921.69	
City of Golden Valley						2,640.00																
City of New Hope																						
City of Plymouth	52,486.60					38,823.35	736,201.52		70,972.82													
City of St. Louis Park			214,040.78																			
Com of Trans					3,992.26																	
S E H																						100,375.60
Misc																					1,712.15	12,774.00
Total Expenditures	55,920.84	5,724.35	225,864.90		13,566.33	41,818.10	744,633.58	637.50	71,831.27	39.00	36,472.65	2,127.00	12,113.40	17,363.42	10,233.00	34,803.97	31,522.86	602.00	56,303.21	87,403.75	84,580.16	138,692.60

Kennedy & Graven, Chartered

200 South Sixth Street
Suite 470
Minneapolis, MN 55402

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

December 8, 2010

Statement No. 99508

Bassett Creek Water Management Commission
Sue Virnig

7800 Golden Valley Road
Golden Valley, MN 55427

Through November 30, 2010

BA295-00001 General	998.20
BA295-00027 2010 Plymouth Creek Restoration (PC-1, PC-2)	152.80
BA295-00029 Main Stem Restoration (Wisconsin to Rhode Island)	38.20

Total Current Billing: 1,189.20

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

November 30, 2010

BA295-00001 General

Through November 30, 2010

For All Legal Services As Follows:

			Hours	Amount
11/1/2010	CLL	Phone calls to D. Hanson and G. Nash regarding letter to Amplatz	0.10	19.10
11/4/2010	CLL	Update filing	0.15	28.65
11/5/2010	CLL	Review email and phone call from G. Nybeck regarding status of Braun report on aeration	0.30	57.30
11/8/2010	CLL	Review draft minutes	0.35	66.85
11/16/2010	CLL	Review agenda materials	0.40	76.40
11/17/2010	CLL	Attend commission meeting	3.90	744.90
Total Services:			\$	993.20

For All Disbursements As Follows:

11/17/2010	Charles L. LeFevere; Mileage expense	5.00
Total Disbursements:		\$ 5.00

Total Services and Disbursements: \$ 998.20

Kennedy & Graven, Chartered

200 South Sixth Street
Suite 470
Minneapolis, MN 55402

Bassett Creek Water
Sue Virnig

November 30, 2010

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

Through November 30, 2010

For All Legal Services As Follows:

			Hours	Amount
11/2/2010	CLL	Work on amendment to cooperative agreement with Plymouth for Plymouth Creek	0.60	114.60
11/3/2010	CLL	Phone call to K. Chandler regarding terms of BWSR grant	0.20	38.20
Total Services:			\$	152.80

Total Services and Disbursements: \$ 152.80

Kennedy & Graven, Chartered

200 South Sixth Street
Suite 470
Minneapolis, MN 55402

Bassett Creek Water
Sue Virnig

November 30, 2010

BA295-00029 Main Stem Restoration (Wisconsin to Rhode Island)

Through November 30, 2010

For All Legal Services As Follows:

			Hours	Amount
11/3/2010	CLL	Phone call to K. Chandler regarding terms of BWSR grant	0.20	38.20
Total Services:			\$	38.20

Total Services and Disbursements: \$ 38.20



Bassett Creek WMO
7800 Golden Valley Road
Golden Valley, MN 55427

Page # 1
Invoice # 23270051-2010-11
Project # 23/27-0051
Client # 59
January 10, 2011

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
November 27, 2010 through December 31, 2010

ENGINEERING

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 construction issue in Wirth Park and floodplain impacts; provided Bassett Creek tunnel information to Xcel staff; coordination with recording administrator regarding Plymouth outreach event; prepared memorandum and planning process flowchart for next generation plan; provided information to recording administrator regarding Bassett Creek channel information; discussed next generation planning process with administrator; reviewed proposed draft changes to 8410 rules; reviewed status of BWSR Clean Water Fund grant recommendation; provided topographical map to Golden Valley; provided HEC-2 models to Jennifer Thiemann; prepared letter to CP Rail.

Leonard J. Kremer, Principal Engineer/Scientist	
14.9 hours @ \$160.00 per hour	\$ 2,384.00
James P. Herbert, Principal Engineer/Scientist	
2.0 hours @ \$140.00 per hour	\$ 280.00
Karen L. Chandler, Senior Consultant	
14.3 hours @ \$140.00 per hour	\$ 2,002.00
Sarah M. Stratton, Senior Consultant	
0.3 hours @ \$115.00 per hour	\$ 34.50
Michael B. Strong, Engineer/Scientist/Specialist II	
0.5 hours @ \$70.00 per hour	\$ 35.00
Technicians/Administrative	\$ 390.00
Expenses (Postage)	\$ 3.59
<i>Subtotal, Technical Services.....</i>	<i>\$ 5,129.09</i>

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Telephone conversations regarding proposed developments; provided watershed hydraulic information, flood profiles and BCWMC development requirements to applicants; telephone conversation with MFRA regarding BCWMC requirements for Golden Valley site near I-394 & 100; coordination with Golden Valley regarding proposed Wirth Lake WCA planning and preliminary review of Wirth Lake Improvement plans; reviewed south Parkers Lake tributary maintenance plan and provided comments to Plymouth.

James P. Herbert, Principal Engineer/Scientist	
4.6 hours @ \$140.00 per hour	\$ 644.00
<i>Subtotal, Preliminary Site Review/Correspondence</i>	<i>\$ 644.00</i>

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 Bassett Creek Administrator and Recording Administrator; internal meetings regarding agenda, to-do list and meeting packet and December 16, 2010 meeting; prepared permit figures; communications with recording secretary and administrator regarding December meeting agenda

James P. Herbert, Principal Engineer/Scientist	
4.0 hours @ \$140.00 per hour	\$ 560.00
Karen L. Chandler, Senior Consultant	
8.6 hours @ \$140.00 per hour	\$ 1,204.00
<i>Subtotal, Monthly Meeting Preparation.....</i>	<i>\$ 1,764.00</i>

TAC MEETING PREPARATION

Preparation for January 6, 2011 TAC meeting including internal meetings regarding Commission water quantity and water quality models; reviewing background materials/meeting summaries; coordination with Administrator and internal staff regarding TAC meeting agenda and background materials; coordinate with Administrator regarding TAC recommendations; reviewed status of P8 modeling and hydrologic and hydraulic models; delineated and digitized subwatersheds and geo-reference watersheds; reviewed HEC-1 and HEC-2 models, prepared water quality and hydraulic/hydrologic modeling memorandum and scope for modeling updates; prepared cost estimates for GIS edits and HEC-1, HEC-2 and XP-SWMM models; emailed modeling memos to administrator for review; arranged and attended meeting with MPCA staff (Mike Trojan) regarding categorical TMDL (tracking of waste load allocations, TMDL reporting) and 2011 MS4 permit changes; revised CIP list and attended meeting with administrator; coordination with Minneapolis and Golden Valley city staff regarding CIP.

Leonard J. Kremer, Principal Engineer/Scientist	
18.5 hours @ \$160.00 per hour	\$ 2,960.00

Timothy J. Anderson, Senior Consultant	
1.3 hours @ \$140.00 per hour	\$ 182.00
Karen L. Chandler, Senior Consultant	
14.7 hours @ \$140.00 per hour	\$ 2,058.00
Sarah M. Stratton, Senior Consultant	
4.3 hours @ \$115.00 per hour	\$ 494.50
Jeffrey T. Lee, Senior Consultant	
1.6 hours @ \$130.00 per hour	\$ 208.00
Gregory J. Wilson, Senior Consultant	
6.9 hours @ \$140.00 per hour	\$ 966.00
Christy L. Shostal, Engineer/Scientist	
6.5 hours @ \$90.00 per hour	\$ 585.00
Rita A. Weaver, Engineer/Scientist	
16.2 hours @ \$95.00 per hour	\$ 1,539.00
<i>Subtotal, TAC Meeting Preparation</i>	<i>\$ 8,992.50</i>
 <i>Subtotal Technical Services</i>	 <i>\$ 16,529.59</i>

PLAT REVIEW

Note: Projects in **Bold** have provided review fees to offset review costs. Projects not in Bold are either in a preliminary stage or were submitted prior to implementation of the fee schedule.

Menards Golden Valley

Communications with applicant and City staff; reviewed grading, drainage and erosion control plans and storm water plan; prepared letter of recommendation to city of Golden Valley.

James P. Herbert, Principal Engineer/Scientist	
3.4 hours @ \$140.00 per hour	\$ 476.00
Rita A. Weaver, Senior Engineer/Scientist	
0.2 hours @ \$95.00 per hour	\$ 19.00
<i>Subtotal, Menards Golden Valley</i>	<i>\$ 495.00</i>

Wirth Lake 2010 Site Improvements

Coordination with applicant and Golden Valley staff regarding project and water quality issues; brief meeting with applicant regarding plan submittal.

James P. Herbert, Principal Engineer/Scientist	
2.0 hours @ \$140.00 per hour	\$ 280.00
<i>Subtotal, Wirth Lake 2010 Site Impr</i>	<i>\$ 280.00</i>

Subtotal Plat Review ***\$ 775.00***

COMMISSION MEETINGS

Attended December 16, 2010 Commission meeting.

Karen L. Chandler, Senior Consultant	
3.5 hours @ \$140.00 per hour	\$ 490.00
<i>Subtotal, Commission Meetings.....</i>	<i>\$ 490.00</i>

SURVEYS AND STUDIES

Preparation of the draft report for Sediment Phosphorus-Internal Loading Investigation of Twin Lake; analysis of historical data to determine cause of current internal loading problem

Review and update of Twin Lake Report

Leonard J. Kremer, Principal Engineer/Scientist	
1.8 hours @ \$160.00 per hour	\$ 288.00
Brian J. Huser, Engineer/Scientist	
2.3 hours @ \$110.00 per hour.....	\$ 253.00
Margaret R. Rattei, Senior Consultant	
10.7 hours @ \$115.00 per hour	\$ 1,230.50
<i>Subtotal, Water Quality Monitoring</i>	<i>\$ 1,771.50</i>

WATER QUALITY MONITORING

Communications with Three Rivers Park District (TRPD) staff regarding Medicine Lake monitoring; performed trend analysis for Medicine Lake; prepared Medicine Lake macrophyte figures and isopleth plots; performed phytoplankton and zooplankton analyses; reviewed monitoring data; prepared draft Medicine Lake Report.

Leonard J. Kremer, Principal Engineer/Scientist	
1.0 hours @ \$160.00 per hour	\$ 160.00
Karen L. Chandler, Senior Consultant	
0.3 hours @ \$140.00 per hour.....	\$ 42.00
Margaret R. Rattei, Senior Consultant	
98.6 hours @ \$115.00 per hour	\$ 11,339.00
Christopher J. Bonick, Engineer/Scientist III	
1.5 hours @ \$105.00 per hour.....	\$ 157.50
Evan G. Christianson, Engineer/Scientist III	
9.8 hours @ \$95.00 per hour	\$ 931.00
Michael B. Strong, Engineer/Scientist II	
0.7 hours @ \$70.00 per hour	\$ 49.00
Subconsultants (Three Rivers Park Dist)	\$ 2,521.20
<i>Subtotal, Water Quality Monitoring</i>	<i>\$ 15,199.70</i>

WATER QUANTITY

Measured and reviewed lake level elevations as part of the lake-gauging program.

Technicians/Administrative.....	\$	760.00
Expenses (Mileage/field vehicle).....	\$	97.00
<i>Subtotal, Water Quantity</i>	\$	857.00

WATERSHED INSPECTION

Coordination with the cities and performed annual inspection of flood control features; prepared inspection report and memorandum to the Commission.

James P. Herbert, Principal Engineer/Scientist 5.5 hours @ \$140.00 per hour	\$	770.00
Jacob N. Burggraff, Senior Consultant 12.0 hours @ \$115.00 per hour	\$	1,380.00
Technicians/Administrative.....	\$	75.00
Expenses (Travel)	\$	33.50
<i>Subtotal, Watershed Inspection</i>	\$	2,258.50

TOTAL ENGINEERING.....\$ 37,881.29

EDUCATION AND PUBLIC OUTREACH

EDUCATION AND PUBLIC OUTREACH

Registration Fee (City of Plymouth Yard & Garden Expo)	\$	60.00
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EDUCATION AND PUBLIC OUTREACH\$ 60.00

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).....	\$	201.29
Catering (BCWMC)	\$	-0-

TOTAL SECRETARIAL SERVICES EXPENSES\$ 201.29

WATERSHED OUTLET MONITORING PROGRAM (WOMP)

TOTAL WOMP.....\$ 0.00

CAPITAL IMPROVEMENT PROJECTS

PLYMOUTH CREEK RESTORATION PROJECT (2010 CR)

Communication with city staff and its consultant regarding project and status of revised drawings; internal communications regarding Plymouth Creek review; telephone conversation with city staff and its consultant; reviewed revised drawings and comments; prepared email with comments; reviewed revised drawings and prepared letter of approval; provided electronic file of photos to administrator.

James P. Herbert, Principal Engineer/Scientist	
8.5 hours @ \$140.00 per hour	\$ 1,190.00
Karen L. Chandler, Senior Consultant	
0.3 hours @ \$140.00 per hour	\$ 42.00
Jeffrey D. Weiss, Senior Engineer/Scientist	
7.5 hours @ \$95.00 per hour	\$ 712.50
<i>Subtotal, Plymouth Crk Restoration Proj.....</i>	<i>\$ 1,944.50</i>

WEST MEDICINE LAKE PARK POND PROJECT (2008-1)

Reviewed final payment request for West Medicine Lake Park Pond project and prepared email regarding recommended approval.

James P. Herbert, Principal Engineer/Scientist	
1.5 hours @ \$140.00 per hour	\$ 210.00
<i>Subtotal, W Medicine Lake Park Pond</i>	<i>\$ 210.00</i>

WIRTH LAKE OUTLET CIP

Provide Wirth Lake outlet project information to administrator.

Karen L. Chandler, Senior Consultant	
0.5 hours @ \$140.00 per hour	\$ 70.00
<i>Subtotal, Wirth Lake Outlet CIP.....</i>	<i>\$ 70.00</i>

TOTAL CAPITAL IMPROVEMENT PROJECTS\$ 2,224.50

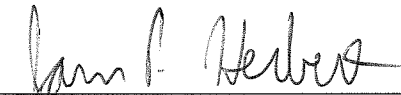
TMDL STUDIES

TOTAL TMDL STUDIES.....\$ 0.00

SUMMARY TOTALS

Total Engineering.....	\$ 37,881.29
Total Secretarial Services Expenses	\$ 201.29
Total Education & Public Outreach	\$ 60.00
Total WOMP	\$ 0.00
Total Capital Improvement Projects	\$ 2,224.50
Total TMDL Studies	\$ <u>0.00</u>
TOTAL PAYABLE	\$ 40,367.08

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

INVOICE DATE: 1/11/11

Client: Bassett Creek Watershed
 Management Commission

Dates: December 1-31, 2010

Task/Project	12/1/10	12/2/10	12/3/10	12/6/10	12/7/10	12/8/10	12/9/10	12/10/10	12/13/10	12/14/10	12/15/10	12/16/10	12/17/10	12/20/10	12/21/10	12/22/10	12/23/10	12/24/10	12/27/10	12/28/10	12/29/10	12/30/10	12/31/10	Month	
Administrative.																								27.5	
Commission Meeting/Prep.	1.0	1.0		3.5	0.5	4.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	2.0		1.0	0.5		1.0	1.0	7.5	
Administrative Committee Meeting/Prep.					2.5				1.0	1.5	1.5	1.0												2.5	
Golden Valley BWSR Grant Reporting						2.5													1.5	1.0	0.5			3.0	
Plymouth BWSR Grant Reporting																			1.5	1.0	0.5				
Education/Outreach Committee		1.0												1.0	1.0				1.0				1.0	5.0	
TAC Meeting/Prep.																			1.0	2.0	2.0	3.0		8.0	
Medicine Lk. TMDL	1.0																							1.0	
Sweeney Lk. TMDL																								0.0	
Wirth Lk. TMDL																								0.0	
																								0.0	
Communication with Commission/Consultants																								0.0	
Policy Manual		2.0																						2.0	
Major Amendment WMP																								0.0	
Third-party meeting/rep.														2.0										2.0	
CIP									1.0		1.0		1.0			2.5								2.0	
Daily Total:	0.0	0.0	4.0	2.0	0.0	3.5	3.0	4.0	3.5	2.0	3.0	2.5	3.5	2.0	2.0	4.0	3.0	3.5	2.0	0.0	3.0	5.5	4.0	5.0	2.0
Weekly Hours:					6.0																				
Monthly Hours:								16.0					13.0					12.5					19.5		
Hourly Charges (at \$47/hr):																									67.0
Actual Hourly Charges:																									\$3,149.00
Unbilled Charges:																									\$3,000.00
																									\$149.00

		12/1/10	12/2/10	12/3/10	12/6/10	12/7/10	12/8/10	12/9/10	12/10/10	12/13/10	12/14/10	12/15/10	12/16/10	12/17/10	12/20/10	12/21/10	12/22/10	12/23/10	12/24/10	12/27/10	12/28/10	12/29/10	12/30/10	12/31/10	
Expenses:																									Month
Telephone																									\$60.85
Printing-black&white (\$0.15/sheet)			8					18			6														\$4.80
Printing-color (\$0.50/sheet)																									
Postage (\$0.44 ea.)			4																						\$1.76
Office products/ext. copying																									\$0.00
Mileage (\$0.50/mile)												20													\$10.00
Expenses:																									\$16.56

Total invoice amount:

\$3,000.00

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

See attached Verizon invoices.

Note: Current Verizon invoice - original Verizon invoice = BCWMC monthly billed amount.

Amy Herbert · Virtual Administrator Services

bcra@barr.com · 952-832-2652

January 6, 2011

Bassett Creek Watershed Management Commission (BCWMC)

Attn: Sue Virnig, Deputy Treasurer

7800 Golden Valley Road

Golden Valley, MN 55427

For contracted services December 1, 2010, through December 31, 2011

Administrative Services to BCWMC

- Created the December 16th BCWMC meeting agenda; organized 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; e-mailed 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.
- Organized BCWMC monthly invoices; Distributed invoice payments.
- Communicated with city clerks of Plymouth, Robbinsdale, and St. Louis Park regarding upcoming term expirations; Sent reminder letters to member cities regarding February deadline for assessment payments; Prepared notice and arranged publication in December 20th issue of the State Register for letters of interest proposals for legal and engineering and technical services to the BCWMC; Communicated with Barr Engineering about BCWMC's annual CIP review; Prepared letter and sent BCWMC's CIP to member cities for comments in preparation of BCWMC's annual CIP review.
- Created meeting notice for the January 6th TAC meeting

52.75 hours @ \$57.00 per hour \$3,006.75

BCWMC Meetings

Attended December 3rd Education Committee meeting to discuss BCWMC's Web site; Set up and attended December 16th BCWMC meeting (coordinated room reservations and set up; verified December catering order and received December catering; coordinated agenda, prepared and provided handouts not provided in meeting packet; recorded meeting)

7.75 hours @ \$57.00 per hour \$441.75

Web Site Services to BCWMC

Updated meeting minute archive, online calendar, and roster. Created new page for the West Medicine Lake Park Pond CIP water quality project; communicated with members of the BCWMC Education Committee about changes, worked on updates to text and links throughout the Web site.

8.0 hours @ \$57.00 per hour	\$456.00
------------------------------------	----------

Expenses

No December expenses	\$0.00
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Mileage

Roundtrip mileage between Chanhassen and Plymouth City Hall (15.81 x 0.51 = \$8.06) and between Chanhassen and Golden Valley City Hall for December 16 th BCWMC meeting (17.08 miles x 0.51 = \$8.71)	\$16.77
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Subtotal Administrative Services	\$3,465.27
----------------------------------	------------

Subtotal Web Site Services	\$456.00
----------------------------	----------

Total Current Billing:	\$3,921.27
-------------------------------	-------------------

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 #

48048

SHIP TO

Golden Valley City Hall-2nd Fl-Council Rm
7800 Golden Valley Road
Site Contact: Judy N 763/593-3991
PO#23270512008300
952/832-2652 fax: 832-2601

BILL TO

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

P.O. NUMBER	TERMS		DELIVERY DATE	DAY	PPL	DELIVERY TIME
see above	Due on receipt		1/20/2011	Thursday	20	11 AM (10:45-11:15)

QUATY	DESCRIPTION	PRICE EA...	AMOUNT
20	ACE Buffet One	13.95	279.00T
	KITCHEN NOTE: PLEASE MAKE THAI SAUCE MILD		
1	Thai Tofu with Mushrooms, Scallions and Julienne Carrots in a Spicy Thai Sauce **VEGETARIAN**	0.00	0.00T
19	Thai Chicken Breast with Mushrooms, Scallions and Julienne Carrots in a Spicy Thai Sauce	0.00	0.00T
20	White Rice	0.00	0.00T
20	House Salad with French and Ranch Dressing	0.00	0.00T
2	Assorted Spring Rolls with Spicy Dipping Sauce (20 Pieces per platter)	34.75	69.50T
20	Multigrain & White Rolls & Butter	0.00	0.00T
20	Assorted Bars & Cookies	0.00	0.00T
1	Dozen-Assorted Bars & Cookies	18.00	18.00T
2	Full Disposable Chafer	4.00	8.00T
20	Spring Water	1.00	20.00T
8	Assorted Sodas-2 Coke, 2 Diet, 2 Sprite & 2 Mineral Waters	1.25	10.00T
2	Lemonade	1.75	3.50T
	Subtotal		408.00
	Delivery Charge	10.00	10.00T
	Metro Sales Tax	7.275%	30.41

We appreciate your prompt payment.

Total

\$448.41

***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)_____

INVOICE

Please Remit To:

Metropolitan Council
Environmental Services
SDS 12-1064
P.O. Box 86
Minneapolis MN 55486-1064

Page:

1

Invoice No:

0000947386

Invoice Date:

12/15/2010

Customer Number:

7172

Payment Terms:

Due 30 dys

Due Date:

01/14/2011

Bill To:

BASSETT CREEK WMO
Attn: Geoff Nash
6920 Hillcrest Ln
Edina MN 55435

AMOUNT DUE:

4,150.00

\$

Amount Remitted



Please detach top portion of invoice and remit with payment. Please include invoice number on check.

For billing questions, please call (651) 602-1189

Line	Adj	Identifier	Description	Quantity	UOM	Unit Amt	Net Amount
------	-----	------------	-------------	----------	-----	----------	------------

1		MSC	Miscellaneous	1.00	EA	4,150.00	4,150.00
---	--	-----	---------------	------	----	----------	----------

2010 Citizen-Assisted Monitoring Program

2 kits at \$150. Quantity of lake sites: 7 at \$550.

-

For questions about this bill, please contact Brian Johnson at 651-602-8743.

-

ANY UNPAID BALANCE OVER 30 DAYS FROM DATE OF INVOICE WILL BE SUBJECT TO A
FINANCE CHARGE AT THE RATE OF 1.5% PER MONTH (18% PER YEAR)

SUBTOTAL:

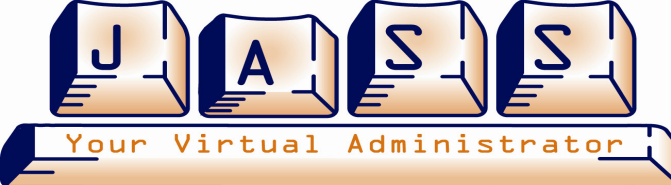
4,150.00



TOTAL AMOUNT DUE :

\$ 4,150.00

STANDARD

Original

					
			3235 Fernbrook Lane Plymouth MN 55447		
	TO: Pauline Langsdorf				
	Bassett Creek Water Management Commission				
	8100 33rd Avenue North				
	Crystal, MN 55427				
			December 30, 2010		
	Re: Joint Education and Public Outreach Committee / WMWA				
Invoice Date	Description		Debit	Credit	Total
January	January 5, 2010 meeting	Panera	13.24		13.24
	Meeting coordination and attendance	JASS	710.30		723.54
	Attend Blue Thumb meeting, NEMO workshop				723.54
	Draft skeleton education and outreach plan				723.54
February	February 9 meeting	Panera	16.72		740.26
	Meeting coordination and attendance	JASS	1,214.40		1,954.66
	Outreach plan				1,954.66
	Coordinate 2010 Metro Blooms raingarden workshops				1,954.66
	Attend Blue Thumb meeting, NEMO meeting and workshop				1,954.66
March	March 9 meeting	Panera	12.64		1,967.30
	Meeting coordination and attendance	JASS	558.95		2,526.25
	Outreach plan				2,526.25
	Attend Community Cleanup workshop				2,526.25
April	April 13 meeting	Lunds	10.50		2,536.75
	Meeting coordination and attendance	JASS	383.95		2,920.70
	Outreach plan				2,920.70
	Watershed game				2,920.70
May	May 11 meeting	Perkins	14.34		2,935.04
	Meeting coordination and attendance	JASS	1,530.50		4,465.54
	Outreach plan				4,465.54
	Attend NEMO meeting				4,465.54
June	WMWA coordination	JASS	364.35		4,829.89
	NEMO workshop				4,829.89
July	July 13 meeting	Panera	17.79		4,847.68
	Meeting coordination and attendance	JASS	395.15		5,242.83
August	August 16 subcommittee meeting	Jimmy John's	33.25		5,276.08
	Meeting coordination and attendance	JASS	547.50		5,823.58
	NEMO meeting				5,823.58
September	September 14 meeting	Panera	14.20		5,837.78
	Meeting coordination and attendance	JASS	1,638.95		7,476.73
	Snow and Ice brochure campaign				7,476.73
October	October 12 meeting	Panera	13.94		7,490.67
	Meeting coordination and attendance	JASS	812.05		8,302.72
	Attend NEMO, Blue Thumb meetings				8,302.72
	Subcommittee meeting				8,302.72
	Snow and Ice brochure campaign				8,302.72

 					
			3235 Fernbrook Lane Plymouth MN 55447		
TO: Pauline Langsdorf					
Bassett Creek Water Management Commission					
8100 33rd Avenue North					
Crystal, MN 55427					
			December 30, 2010		
Re: Joint Education and Public Outreach Committee / WMWA					
Invoice Date	Description		Debit	Credit	Total
November	November 2 subcommittee meeting	Panera	14.10		8,316.82
	November 9 meeting	Panera	13.94		8,330.76
	Meeting coordination and attendance	JASS	599.00		8,929.76
	Snow and Ice brochure distribution				8,929.76
	Workshop discussions				8,929.76
December	Dec 7, 21 subcommittee meetings				8,929.76
	December 14 meeting	Panera	13.94		8,943.70
	Meeting coordination and attendance	JASS	756.95		9,700.65
	Brochure revisions				9,700.65
	Workshop development				9,700.65
	Bassett Creek Share		9,700.65	x .20	1,940.13
	Bassett Creek Share <i>Salt and Ice</i> brochure printing				78.43
	Total Bassett Creek WMO Share 2010 WMWA Activities				2,018.56
<i>Thank you for being a part of our joint education and public outreach program.</i>					



January 3, 2011

To: Amy Herbert, BCWMC Recording Administrator

From: Debra Pilger, Minneapolis Park and Recreation Board (MPRB)

Re: Invoice for 2010 Bassett Creek WOMP Site

The Bassett Creek Watershed Outlet Monitoring Program (WOMP) 2010 expenses totaled \$5,931.00. The Metropolitan Council reimburses the MPRB \$4,000 per year for these expenses. The remaining expenses are paid by the BCWMC.

Please consider this memo an invoice to the BCWMC for 2010 Bassett Creek WOMP Site expenses in the amount of \$1,931.00

Please make check payable to the Minneapolis Park and Recreation Board and mail to my attention at 3800 Bryant Avenue South, Minneapolis, MN, 55409.

Thank you and please feel free to call me with any questions at (612) 313-7728.



Hennepin County Department of Environmental Services

417 North Fifth Street, Suite 200
Minneapolis, Minnesota 55401-1397

612-348-3777, Phone
612-348-8532, Fax
612-348-6500, Facility **INFO** Line
www.hennepin.mn

To:	Bassett Creek Watershed Management Commission C/O Barr Engineering 4700 W 77th Street Minneapolis, MN 55435-4803
From:	Hennepin County Department of Environmental Services 417 N. Fifth Street, Suite 200 Minneapolis, MN 55401-1397 Phone: 612-596-9129

December 13, 2010

Support was provided to maintain monitoring efforts on the following Bassett Creek sites. Funds were used for program coordination, teacher support and training, substitute teacher reimbursement, transportation, all necessary equipment and supplies, and measures for quality control.

\$2,000 ---Total 2010 Bassett Creek Watershed Commission Contribution

Please send contribution payment to the attention of:

Mr. Joel Settles
Department of Environmental Services
417 North 5th Street
Minneapolis, MN 55401-1397



Invoice

1/3/2011

Bill to: Pauline Langsdorf
Bassett Creek Watershed Management Commission
c/o Barr Engineering Company
4700 W 77th St
Minneapolis, MN 55345

Description	unit price	Total
<i>2010 Blue Thumb membership</i>		\$1,000.00
Terms: Net 30 Days	SUBTOTAL	\$1,000.00
	SHIPPING & HANDLING	N.A.
	SALES TAX 6.5%	N.A.
	Add'l Mpls SALES TAX .5%	N.A.
	OTHER	
	TOTAL	\$1,000.00

Prairie Moon Nursery
32115 Prairie Lane
Winona, MN 55987
<http://www.prairiemoon.com/>

INVOICE S

10-8141

Phone: 507 452-1362
866 417-8156
Fax: 507 454-5238

Customer #: LANGSD55427
Ship via: SPEEDEE
Terms: NET 30
P.O. #:

Date: 12/30/2010
Ship
Date:

Ship PAULINE
to: LANGSDORF

BASSETT CREEK WATERSHED
COMM

8100 33RD AVE N

Bill
to: 4700 W 77TH ST

CRYSTAL, MN
55427

MINNEAPOLIS, MN 55435-4803

Day: 763 544-1317

Other:

Fax:

LANGSDORFP@AOL.COM

Lot #	Ordered	Shipped	Unit	Comment	Cat. #	Description	Price Each	Total
400	400	MIX		CUSTOM	BASSETT CREEK - 400 PKTS ECH PUR/RUD HIR	0.60	240.00	

THANK YOU!

PLANTS	SEEDS	SHIPPING & HANDLING	POSTPAID ITEMS	SALES TAX	TOTAL AMOUNT	PAYMENT RECEIVED	BALANCE DUE
0.00	240.00	12.00	0.00	17.33	269.33	0.00	269.33

Accounts not paid in full within 30 days of the ship date will have monthly finance charges added at a rate of 1%



The logo features the letters J, A, S, and S each inside a 3D isometric cube. Below these cubes is a horizontal bar with the text "Your Virtual Administrator" written on it.

Bill To: Bassett Creek Watershed Commission

Quantity	Description	Unit Price	Total Price
14.00	Printed Labels for Seed Packets - price per sheet	\$1.00	\$14.00
0.17	Create Label	\$50.00	\$8.50
	TOTAL DUE		\$22.50

Thank You For Your Business!

State Register

660 Olive Street ♦ St. Paul, MN 55155

Hours: 8 a.m. - 5 p.m. Central Time Monday - Friday

Editorial Office: 651.297.7963 ♦ 800.657.3757

FAX: 651.297.8260

Minn Relay Service: 800.627.3529

www.minnesotasbookstore.com

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For state agency internal use

AGPS:

Vendor 200306985-06
Commodity Code 023 18 001182 (subscriptions)
Object Code 2J00 (supplies)

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

GFS:

Fund 840
Agency G02
Org 2520
Appr 167
Rev 2564

Bill To: BARR ENGINEERING
HERBERT, AMY
4700 W 77TH ST
MINNEAPOLIS, MN 55435

Quantity Ordered	Quantity Shipped	Item Number	Description	Price/Per	Amount
	4	13896	Vol 35 No 25 - 12/20/2010	\$13.60	\$54.40
	1	1304	State Register Affidavit	\$15.00	\$15.00

Subtotal: \$69.40

Shipping: \$0.00

INVOICE TOTAL: \$69.40

Amount Due: \$69.40

Payment Terms

Associate Bonnie

Customer PO#

Entry Date 1/3/2011

Order Number

Receipt Number 29472

Customer Number 7005297

Ship Via Shipping

NOTICE OF PREMIUM DUE

CNA SURETY

P. O. Box 5077
Sioux Falls, SD 57117-5077
1-888-866-2666

LINDA R. LOOMIS
7800 GOLDEN VALLEY RD.
GOLDEN VALLEY, MN 55427

Bond/Policy#: 0601 70052551

Billing Date: 12/17/2010
Filing Date: 02/16/2011

Premium: \$100.00

Amount Due: \$100.00

Bond/Policy#: **0601 70052551**
Effective Date: 02/16/2011 Anniversary Date: 02/16/2012
Penalty: \$10,000.00
Name: LINDA R. LOOMIS
Description: MN TREASURER BASSETT CREEK WATER MANAGEMENT COMMISSION

Written By: WESTERN SURETY COMPANY

Your agent has requested that we bill your bond/policy directly from our office. PLEASE PAY THE AMOUNT INDICATED to CNA Surety. Prompt payment allows us to issue or continue your bond/policy coverage.

If you have any questions, please contact your agent with whom the bond/policy was written.

Phone: (952)358-7500
Agency: 22-00236

**Arthur J. Gallagher Risk
Management Services, Inc.
Ste. 500
3600 American Blvd. W.
Bloomington, MN 55431**

Please detach and return the original coupon below with your payment

CNA Surety

Amount Due: \$100.00

Bond/Policy#: **0601 70052551** Effective Date: 02/16/2011
Name: LINDA R. LOOMIS
Description: MN TREASURER BASSETT CREEK WATER MANAGEMENT COMMISSION
Written By: WESTERN SURETY COMPANY
Agency: 22-00236 Arthur J. Gallagher Risk

Billing Date: 12/17/2010

Make Check Payable To CNA Surety

☐

Check here and include change
in # of covered employees/owners
& other comments below:

CNA Surety
P.O. Box 802876
Chicago, IL 60680-2876

0003001 02200236000002162011 00601007005255100 00000001000007

Remit To:

CITY OF GOLDEN VALLEY
7800 GOLDEN VALLEY RD
GOLDEN VALLEY MN 55427

Billing Address: 116776

BASSETT CREEK WATERSHED MGMT COMMISSION
7800 GOLDEN VALLEY RD
GOLDEN VALLEY MN 55427

INVOICE

6664

Invoice Date 12/31/2010**Due Date** 12/31/2010

Page: 1

Item	Remark	Amount
001	2010 FINANCIAL SERVICES	3,000.00
	Total Amount Invoiced	3,000.00
	Tax Amount	
	Balance Due	3,000.00

Please return one copy with your payment.



7800 Golden Valley Road, Golden Valley, MN 55427
(763)593-8009

Kennedy & Graven, Chartered

200 South Sixth Street
Suite 470
Minneapolis, MN 55402

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

January 14, 2011

Statement No. 100195

Bassett Creek Water Management Commission
Sue Virnig

7800 Golden Valley Road
Golden Valley, MN 55427

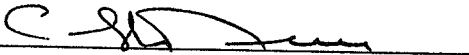
Through December 31, 2010

BA295-00001 General

908.29

Total Current Billing: 908.29

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, Chartered200 South Sixth Street
Suite 470

Minneapolis, MN 55402

Bassett Creek Water
Sue Virnig

December 31, 2010

BA295-00001 General

Through December 31, 2010

For All Legal Services As Follows:

			Hours	Amount
12/2/2010	CLL	Exchange emails with G. Nash regarding report to J. Settles on WMO employees and consultants	0.15	28.65
12/6/2010	CLL	Phone call from G. Nash regarding notice for committee meeting under open meeting law; exchange emails with G. Nash regarding same	0.30	57.30
12/8/2010	CLL	Check joint powers agreement and respond to D. Asche's question regarding number of commissioners	0.20	38.20
12/10/2010	CLL	Review draft letter to railroad and G. Nash comments; phone call from L. Kremer regarding same	0.20	38.20
12/14/2010	CLL	Review agenda materials	0.45	85.95
12/16/2010	CLL	Attend commission meeting	3.35	639.85
12/20/2010	CLL	Letter to S. Virnig regarding LMCIT dividend	0.10	19.10
Total Services:			\$	907.25

For All Disbursements As Follows:

Photocopies	0.60
Postage	0.44
Total Disbursements:	\$ 1.04

Total Services and Disbursements:	\$ 908.29
--	------------------

RESOLUTION 11-01

Member _____ introduced the following resolution and moved its adoption:

RESOLUTION DESIGNATING DEPOSITORIES FOR BASSETT CREEK WATERSHED MANAGEMENT COMMISSION FUNDS

BE IT RESOLVED by the Bassett Creek Watershed Management Commission of the Cities of Crystal, Golden Valley, Medicine Lake, Minneapolis, Minnetonka, New Hope, Plymouth, Robbinsdale, and St. Louis Park that the following are named as depositories for funds, subject to the furnishing of collateral for funds on deposit as provided in the Laws of the State of Minnesota: **RBC Dain Rauscher; Wells Fargo; 4M Fund**

BE IT FURTHER RESOLVED that a sweep account will be used for nightly balances.

BE IT FURTHER RESOLVED that the following signatories or alternates are authorized to be signatories on checks drawn on funds deposited:

General Checking: Chair or Vice Chair and Treasurer or Deputy Treasurer
Each check shall require two signatures.

BE IT FURTHER RESOLVED that the following shall be authorized to make investments of the Bassett Creek Watershed Management Commission and shall be authorized to deposit the principal of said investments in the above named depositories as necessary and beneficial to the Bassett Creek Watershed Management Commission: Deputy Treasurer of the Bassett Creek Watershed Management Commission.

The Deputy Treasurer shall supply each of the depositories with certified copies of this resolution along with such signature documentation as is required by the depository and the authorizations set forth above.

Adopted by the Board of the Bassett Creek Watershed Management Commission this _____ day of _____ 2011.

Chair

Date

ATTEST:

Secretary

Date

The motion for the adoption of the foregoing resolution was seconded by Member _____ and upon a vote being taken thereon, the following voted in favor thereof: ____ and the following voted against the same ____ whereupon said resolution was declared duly passed and adopted.

RESOLUTION NO. 11-02

Member _____ introduced the following resolution and moved its adoption:

A RESOLUTION APPROVING THE REIMBURSEMENT TO THE BASSETT CREEK WATERSHED MANAGEMENT COMMISSION 2.5% OF THE 2010 TAX LEVY REQUEST TO HENNEPIN COUNTY, FOR ADMINISTRATIVE EXPENSES FOR CAPITAL IMPROVEMENT PROGRAM (CIP) PROJECTS AND APPROVING THE TRANSFER OF THE FUNDS FROM THE CIP ACCOUNT TO THE ADMINISTRATIVE ACCOUNT

BE IT RESOLVED by the Bassett Creek Watershed Management Commission of the Cities of Crystal, Golden Valley, Medicine Lake, Minneapolis, Minnetonka, New Hope, Plymouth, Robbinsdale, and St. Louis Park that:

1. The Bassett Creek Watershed Management Commission (BCWMC) will be reimbursed \$23,375.00, which is 2.5% of the BCWMC's tax request in the amount of \$935,000 to Hennepin County for collection in 2010, for administrative expenses for Capital Improvement Projects.
2. The Bassett Creek Watershed Management Commission directs its Deputy Treasurer to transfer the reimbursed funds from the Commission's CIP Account to its Administrative Account.

Chair

Date

Attest:

Secretary

Date

The motion for adoption of the foregoing resolution was seconded by Member _____ and upon a vote being taken thereon, the following voted in favor thereof: _____ and the following voted against the same _____ whereupon said resolution was declared duly passed and adopted.

2011 Partners' Agreement

Partner Information

Company/Organization _____

Main Blue Thumb Contact Name _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____

Website _____

Email _____



Partner Contributions

Please outline how your organization intends to fulfill the Blue Thumb partnership agreement. Attach additional sheets if necessary.

I am interested in...

- ☐ volunteering at the Blue Thumb exhibit at the State Fair
- ☐ volunteering at the Blue Thumb booth at the Living Green Expo
- ☐ serving on a sub-committee (please specify your interest/talent)
- ☐ contributing content to the Blue Thumb eNews and/or blog (highlighting your organization)
- ☐ contributing services and or coupons for the eMarketing program

Other Activities

Approximate number of hours

1. _____

2. _____

3. _____

Estimated Cash Contribution to the Blue Thumb program's budget

Approximate date of contribution

Website

In order to access the Blue Thumb website to put up your partner profile, log your partner contributions, post events, news articles, update the plant selector tool, obtain Blue Thumb logos and fonts, meeting agendas and minutes, etc, you will need a username and password for your organization. Please write your organization's username and password below. If you are a continuing Blue Thumb partner and already have a username and password, please use the same one. If you have forgotten your username and password, please contact the membership chairperson.

Username (Please note: The username is required for returning partners. Please do not write 'same as last year' since our member chair changes from year to year) _____

Password _____

2011 Partners' Agreement

For All Blue Thumb Partners:

The below signatures indicate that _____ Name of Organization has agreed to become a partner to the Blue Thumb – Planting for Clean Water™ program in accordance with the terms described in this Partner Agreement. **Improper use of the Blue Thumb program as outlined in this Blue Thumb Standards Manual and Partners' Agreement may result in suspension from the Blue Thumb Partners.**

By: _____
Partner representative Date

By: _____
RCWD Representative Date

For Nurseries and Garden Centers, Installers & Designers Only:

Nurseries and garden centers selling native plants will be expected to supply and/or use native plants as defined in the Blue Thumb Standards Manual: sales of “native plants” must be local ecotype native plants. This means plant material propagated from original sources no farther than 200 miles (300 for trees and shrubs) from the projects. **Improper use of the Blue Thumb program as outlined in this Blue Thumb Standards Manual and Partners' Agreement may result in suspension from the Blue Thumb partnership.**

The below signatures indicate that _____ Name of Organization has agreed to become a partner to the Blue Thumb – Planting for Clean Water™ program in accordance with the terms described above.

By: _____
Partner representative Date

By: _____
RCWD Representative Date

Please email, fax or mail pages 14-15 of this partnership agreement to Dawn Pape at:

dpape@ricecreek.org

763-398-3088

RCWD, Attn. Dawn Pape

4325 Pheasant Ridge Dr. NE #611

Blaine, MN 55449

Blue Thumb Program Overview

The Blue Thumb program was created to encourage homeowners to use native plants in gardens, plant raingardens, and stabilize shoreline property with native plants to improve water quality. The Blue Thumb program does not encompass all best management practices (BMPs) such as pervious and porous pavers, rain barrels, etc.

Although the program was created by Rice Creek Watershed District, it is intended for use throughout the Midwest. A steering committee, consisting of representatives from various Blue Thumb partner organizations, sets program goals and determines the strategic plan for the program.

Main Components of the Blue Thumb program:

- I. User-friendly website BlueThumb.org
 - A. Partners of the Blue Thumb – Planting for Clean Water™ program will be on the Blue Thumb website on all applicable pages, i.e. partners, stores, grants, news stories.
- II. Collaborating on Educational and Outreach Efforts
 - A. *Partnerships*

The Blue Thumb program strengthens educational efforts in both the public and private sectors through the collaboration of local governmental units (watershed districts, conservation districts, cities, counties), non-profits, private sector nurseries, garden centers, landscapers, contractors and consultants.

Benefits to partners include professional development and networking, a listing on the website, credibility, job leads, use of shared resources and materials, shared promotions and outreach through traditional media outlets, social media networks and special events. .

- B. *Educational and promotional materials available for purchase.*

Current materials include brochures, bookmarks, stickers and table-top kiosks and garden art signs. Login to the partners' portal page to download the order form (pdf document) and then fax, scan and email or mail it to Dawn Pape (fax 763-398-3088, dpape@ricecreek.org, 4325 Pheasant Ridge Dr. NE #611, Blaine MN 55449). We are seeking to continually develop promotional materials partners will find useful. Please let a member of the steering committee know if you have an if you have an idea for a useful promotional material. **All orders for 2011 are due by January 31, 2011.**

To purchase raingarden guides, visit the raingarden page on Blue Thumb website to find out where you purchase these locally or online.

Blue Thumb Program Goals & Strategies

Program Goal

The Blue Thumb program was created to improve water quality and habitat. The program will promote the use of plants, primarily through retailers, to reduce stormwater runoff and as a method for stabilizing shorelines.

Strategies to Be Implemented in 2011 to Reach Program Goal

I. Outreach and Education on Native Gardens, Raingardens and Lakeshore Stabilization using Native Plants

- a. Promote Blue Thumb via website and develop the website as needs arise.
- b. Promote Blue Thumb via a minimum of 50 workshops and presentations to residents and stakeholder groups in 2011
- c. Implement a training on Facebook and a "train the trainer" program on Raingarden Design, Install and Maintenance (and possibly other topics according to partner input) for partners interested in giving community presentations
- d. Promote Blue Thumb via a minimum of 100 press releases
- e. Promote Blue Thumb via a minimum of 130 newsletter articles
- f. Promote Blue Thumb at a minimum of 60 events (e.g. State Fair, county fairs, "green" fairs, lawn and garden shows, etc.)
- g. Promote Blue Thumb in libraries, city halls, yard signs, social media and the media
- h. Incorporate Blue Thumb plantings in public spaces with signage recognizing the Blue Thumb and its partners involved with the project.
- i. Develop social media marketing strategies

II. Connecting Blue Thumb Clients to Commercial Partners

- a. Collaborate to effectively promote native plantings, raingardens and lakeshore stabilization using natives
- b. Develop various display and promotional methods that fit the needs of private industry partners
- c. Develop marketing techniques and adapt accordingly
- d. Collaborate to identify methods that make it easy for residents to purchase plants (e.g. plant drop-offs, plant sales etc.)
- e. Have the "The Blue Thumb Guide to Raingardens" and garden art signs available for retail if desired

III. Work with other agencies to expand the Blue Thumb program:

- a. Give presentation(s) to other agencies to introduce concept
- b. Have cities and other MS4s use the Blue Thumb program to help satisfy their federal Clean Water Act mandates (SWPPP requirements).

Blue Thumb Program 2011 Calendar

December 2010

- December 10th - Steering Committee meeting at RWMWD office from 10 a.m.-12:00 p.m.
- Partner agreements for 2011 due by 12/31/10
- Reported hours and dollar contributions due by 12/31/10

January 2011

- January 10th - New partner training at CRWD
- January 14th - Partner Meeting at CRWD office from 9:00-11:00 a.m.
- TBD - Commercial partners sub-committee working on home and garden show strategies and spring plant sale

February

- February 4th - training Part II on Facebook and social media
- TBD - train the trainer on Raingarden Design, Installation and Maintenance
- Enter your upcoming events on the Blue Thumb calendar

March

- Represent Blue Thumb at home and garden and environmental fairs
- March 18th - Steering Committee meeting at RWMWD office from 10 a.m.-12:00 p.m.
- Send out a press release about your upcoming event and mention Blue Thumb

April

- April 8th - Partner Meeting at CRWD office from 9:00-11:00 a.m.
- Represent Blue Thumb at home and garden and environmental fairs
- Sign up to staff the Living Green Expo Blue Thumb booth

May

- Represent Blue Thumb at home and garden and environmental fairs and the Living Green Expo
- Mention Blue Thumb program at site visits or when talking to clients and residents

June

- June 17th - Steering Committee meeting at RWMWD office from 10 a.m.-12:00 p.m.

July

- July 8th - Partner Meeting at CRWD office from 9:00-11:00 a.m.

August

- Sign up to volunteer at the State Fair with the Blue Thumb exhibit in the Eco-Experience building

September

- September 23rd - Steering Committee meeting at RWMWD office from 10 a.m.-12:00 p.m.

October

- October 14th - Partner Meeting at CRWD office from 9:00-11:00 a.m.
- Add your completed projects to the Blue Thumb virtual tour

November

- Train the trainer event - topic TBD

December

- Partner agreements for 2012 due by 12/31/11
- Reported hours and dollar contributions due by 12/31/11

January 5, 2011

To the Board of Commissioners of the
Bassett Creek Watershed Management Commission
City of Golden Valley
7800 Golden Valley Road
Golden Valley, MN 55427

We are pleased to confirm our understanding of the services we are to provide for the Bassett Creek Watershed Management Commission (the Commission) for the year ended January 31, 2011. We will audit the financial statements of the governmental activities, each major fund, and the aggregate remaining fund information, which collectively comprise the Commission's basic financial statements as of and for the year ended January 31, 2011. Accounting standards generally accepted in the United States of America provide for certain required supplementary information (RSI), such as Management's Discussion and Analysis (MD&A), to supplement the Commission's basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board (GASB) who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. As part of our engagement, we will apply certain limited procedures to the Commission's RSI in accordance with auditing standards generally accepted in the United States of America. These limited procedures will consist of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We will not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance. The Management's Discussion and Analysis is required by accounting principles generally accepted in the United States of America and will be subjected to certain limited procedures, but will not be audited.

We will perform the required State Legal Compliance Audit conducted in accordance with auditing standards generally accepted in the United States of America and the provisions of the *Legal Compliance Audit Guide*, promulgated by the State Auditor pursuant to Minnesota Statute § 6.65, and will include such tests of the accounting records and other procedures we consider necessary to enable us to conclude that, for the items tested, the Commission has complied with the material terms and conditions of applicable legal provisions.

Our services will not include an audit in accordance with the Single Audit Act Amendments of 1996 and the U.S. Office of Management and Budget Circular A-133, which would only be required if the Commission expended \$500,000 or more in federal assistance funds during the year. If the Commission is required to have a single audit of federal assistance funds, this engagement letter would need to be modified.

Audit Objectives

The objective of our audit is the expression of opinions as to whether your basic financial statements are fairly presented, in all material respects, in conformity with accounting principles generally accepted in the United States of America and to report on the fairness of the supplementary information referred to in the second paragraph when considered in relation to the financial statements as a whole. Our audit will be conducted in accordance with auditing standards generally accepted in the United States of America, and will include tests of accounting records of the Commission and other procedures we consider necessary to enable us to express such opinions. If our opinions on the financial statements are other than unqualified, we will fully discuss the reasons with you in advance. If, for any reason, we are unable to complete the audit or are unable to form, or have not formed opinions, we may decline to express opinions or to issue a report as a result of this engagement.

Management Responsibilities

Management is responsible for the basic financial statements and all accompanying information as well as all representations contained therein. You are also responsible for making all management decisions and performing all management functions; for designating an individual with suitable skill, knowledge, or experience to oversee our assistance with the preparation of your financial statements and related notes and any other nonattest services we provide; and for evaluating the adequacy and results of those services and accepting responsibility for them.

Management is responsible for establishing and maintaining effective internal controls, including monitoring ongoing activities to help ensure that appropriate goals and objectives are met. You are also responsible for the selection and application of accounting principles; and for the fair presentation in the financial statements of the respective financial position of the governmental activities, each major fund, and the aggregate remaining fund information of the Commission and the respective changes in financial position in conformity with accounting principles generally accepted in the United States of America.

Management is also responsible for making all financial records and related information available to us and for the accuracy and completeness of that information. Your responsibilities include adjusting the financial statements to correct material misstatements and confirming to us in the representation letter that the effects of any uncorrected misstatements aggregated by us during the current engagement and pertaining to the latest period presented are immaterial, both individually and in the aggregate, to the financial statements taken as a whole.

You are responsible for the design and implementation of programs and controls to prevent and detect fraud, and for informing us about all known or suspected fraud or illegal acts affecting the Commission involving (1) management, (2) employees who have significant roles in internal control, and (3) others where the fraud or illegal acts could have a material effect on the financial statements. Your responsibilities include informing us of your knowledge of any allegations of fraud or suspected fraud affecting the Commission received in communications from employees, former employees, regulators, or others. In addition, you are responsible for identifying and ensuring that the Commission complies with applicable laws and regulations. You are responsible for the preparation of the supplementary information in conformity with accounting principles generally accepted in the United States of America. You agree to include our report on the supplementary information in any document that contains and indicates that we have reported on the supplementary information. You also agree to present the supplementary information with the audited financial statements or make the audited financial statements readily available to users of the supplementary information no later than the date the supplementary information is issued with our report thereon.

Audit Procedures – General

An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements; therefore, our audit will involve judgment about the number of transactions to be examined and the areas to be tested. We will plan and perform the audit to obtain reasonable, rather than absolute assurance about whether the financial statements are free of material misstatement, whether from (1) errors, (2) fraudulent financial reporting, (3) misappropriation of assets, or (4) violations of laws or governmental regulations that are attributable to the Commission or to acts by management or employees acting on behalf of the Commission.

Because an audit is designed to provide reasonable, but not absolute assurance and because we will not perform a detailed examination of all transactions, there is a risk that material misstatements may exist and not be detected by us. In addition, an audit is not designed to detect immaterial misstatements or violations of laws or governmental regulations that do not have a direct and material effect on the financial statements. However, we will inform you of any material errors and any fraudulent financial reporting or misappropriation of assets that come to our attention. We will also inform you of any violations of laws or governmental regulations that come to our attention, unless clearly inconsequential. Our responsibility as auditors is limited to the period covered by our audit and does not extend to any later periods for which we are not engaged as auditors.

Our procedures will include tests of documentary evidence supporting the transactions recorded in the accounts, and may include tests of the physical existence of inventories, and direct confirmation of receivables and certain other assets and liabilities by correspondence with selected individuals, funding sources, creditors, and financial institutions. We will request written representations from your attorneys as part of the engagement, and they may bill you for responding to this inquiry. At the conclusion of our audit, we will require certain written representations from you about the financial statements and related matters.

Audit Procedures – Internal Control

Our audit will include obtaining an understanding of the Commission and its environment, including internal control, sufficient to assess the risks of material misstatement of the financial statements and to design the nature, timing, and extent of further audit procedures. An audit is not designed to provide assurance on internal control or to identify deficiencies in internal control. However, during the audit, we will communicate to management and those charged with governance internal control related matters that are required to be communicated under AICPA professional standards.

Audit Procedures – Compliance

As part of obtaining reasonable assurance about whether the financial statements are free of material misstatement, we will perform tests of the Commission's compliance with applicable laws and regulations and the provisions of contracts and agreements. However, the objective of our audit will not be to provide an opinion on overall compliance and we will not express such an opinion.

Audit Administration, Fees, and Other

The assistance to be supplied by your personnel, including the preparation of schedules and analysis of accounts, typing all cash or other confirmations we request, and locating any invoices selected by us for testing, will be discussed and coordinated with you.

We will provide copies of our reports to the Commission; however, management is responsible for distribution of the reports and the financial statements. Unless restricted by law or regulation, or containing privileged and confidential information, copies of our reports are to be made available for public inspection.

The audit documentation for this engagement is the property of Malloy, Montague, Karnowski, Radosevich & Co., P.A. (MMKR) and constitutes confidential information. However, pursuant to authority given by law or regulation, we may be requested to make certain audit documentation available to a regulatory agency pursuant to authority given to it by law or regulation. We will notify you of any such request. If requested, access to such audit documentation will be provided under the supervision of MMKR personnel. Furthermore, upon request, we may provide photocopies of selected audit documentation to the regulatory agency. These parties may intend, or decide, to distribute the copies or information contained therein to others, including other governmental agencies.

The audit documentation for this engagement will be retained for a minimum of five years after the report release date or for any additional period requested by the regulatory agency. If we are aware that a federal awarding agency, pass-through entity, or auditee is contesting an audit finding, we will contact the party(ies) contesting the audit finding for guidance prior to destroying the audit documentation.

William J. Lauer, CPA is the engagement partner and is responsible for supervising the engagement and signing the report or authorizing another individual to sign it. Our fees for these services will be based on the actual time spent at our standard hourly rates. We will also bill you for travel and other out-of-pocket costs such as report production, typing, and postage. Our standard hourly rates vary according to the degree of responsibility involved and the experience level of the personnel assigned to your audit. Our invoices for these fees will be rendered each month as work progresses and are payable upon presentation. Unless additional work is requested, or circumstances require additional work, we estimate the basic audit fees to be \$9,450.

The fee is based on anticipated cooperation from your personnel and the assumption that unexpected circumstances will not be encountered during the audit. If we find that additional audit procedures are required, or if additional services are requested by the Commission, those services will be billed at our standard hourly rates. Additional audit procedures may be required for certain accounting issues or events such as new accounting or auditing standards, due to turnover of key accounting personnel, or if there is an indication of misappropriation or misuse of public funds.

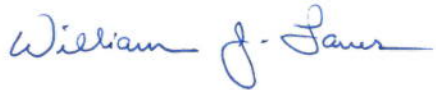
With regard to the electronic dissemination of audited financial statements, including financial statements published electronically on your website, you understand that electronic sites are a means to distribute information and, therefore, we are not required to read the information contained in these sites or to consider the consistency of other information in the electronic site with the original document.

If you intend to publish or otherwise reproduce the financial statements, and make reference to our firm name, you agree to provide us with printers' proofs or masters for our review and approval before printing. You also agree to provide us with a copy of the final reproduced material for our approval before it is distributed.

We appreciate the opportunity to be of service to the Commission and believe this letter accurately summarizes the significant terms of our engagement. If you have any questions, please let us know. If you agree with the terms of our engagement as described in this letter, please sign the enclosed copy and return it to us.

Sincerely,

MALLOY, MONTAGUE, KARNOWSKI, RADOSEVICH & CO., P.A.

A handwritten signature in blue ink that reads "William J. Lauer". The signature is fluid and cursive, with the first name "William" and last name "Lauer" clearly legible.

William J. Lauer, CPA
Principal

WJL:lmb

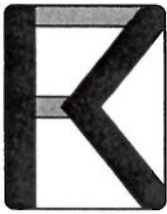
Response:

This letter correctly sets forth the understanding of the Bassett Creek Watershed Management Commission.

By: _____

Title: _____

Date: _____



KERBER, ROSE & ASSOCIATES, S.C.

Certified Public Accountants

4211 N. Lightning Drive, Suite A • Appleton, WI 54913
(920) 993-0105 • Fax (920) 993-0116
(888) 725-5277

System Review Report

To the Principals of Malloy, Montague, Karnowski, Radosevich and Co., P.A.
and the Peer Review Committee of the Minnesota Society of CPAs

We have reviewed the system of quality control for the accounting and auditing practice of Malloy, Montague, Karnowski, Radosevich and Co., P.A. (the firm) in effect for the year ended May 31, 2010. Our peer review was conducted in accordance with the Standards for Performing and Reporting on Peer Reviews established by the Peer Review Board of the American Institute of Certified Public Accountants. The firm is responsible for designing a system of quality control and complying with it to provide the firm with reasonable assurance of performing and reporting in conformity with applicable professional standards in all material respects. Our responsibility is to express an opinion on the design of the system of quality control and the firm's compliance therewith based on our review. The nature, objectives, scope, limitations of, and the procedures performed in a System Review are described in the standards at www.aicpa.org/prsummary.

As required by the standards, engagements selected for review included engagements performed under *Government Auditing Standards* and an audit of an employee benefit plan.

In our opinion, the system of quality control for the accounting and auditing practice of Malloy, Montague, Karnowski, Radosevich and Co., P.A. in effect for the year ended May 31, 2010, has been suitably designed and complied with to provide the firm with reasonable assurance of performing and reporting in conformity with applicable professional standards in all material respects. Firms can receive a rating of *pass*, *pass with deficiency(ies)* or *fail*. Malloy, Montague, Karnowski, Radosevich and Co., P.A. has received a peer review rating of *pass*.

Kerber, Rose & Associates, S.C.
KERBER, ROSE & ASSOCIATES, S.C.
September 23, 2010

To: BCWMC

From: Pauline Langsdorf

RE: WMWA 2011 Workshop Series – Item 4.H on the 1/20/11 Agenda

Date: January 12, 2011

The WMWA 2011 Workshop Series are planned to begin on March 23. The workshops are a collaborative effort of WMWA, Three Rivers Park District, Hennepin County Environmental Services and the Freshwater Society. The budget for the series of five workshops is estimated to be \$14,847.50. This total cost is to be divided between 5 watersheds in the west metro Hennepin County area. \$2,969.50 is the BCWMC share of the cost. The Education and Public Outreach Committee budgeted \$2,000 for WMWA administrative services in 2011. It is estimated that about half of this budgeted amount will be used for coordination of these workshops. We will need an additional \$2,000 to cover BCWMC's costs of the workshops as that amount was not included in our 2011 budget.

(see attachment - West Metro Water Alliance – 2011 Workshop Series)



WEST METRO WATER ALLIANCE

3235 FERNBROOK LANE | PLYMOUTH, MN 55447

763.553.1144 | judie@jass.biz

<http://tinyurl.com/westmetrowa>

West Metro Water Alliance 2011 Workshop Series

The West Metro Water Alliance proposes to host a series of educational workshops in 2011 targeted to city elected officials, advisory commission members, and city staff. In partnership with Hennepin County Environmental Services, the Three Rivers Park District, and the Freshwater Institute, this consortium of five watershed management organizations has targeted three topics of particular interest: stormwater volume management to reduce runoff; nutrient management to improve water quality; and integrating TMDLs into city planning and management.

A telephone survey conducted for the Alliance found very strong support for protecting and improving Minnesota's lakes and streams, with 75 percent of respondents believing that clean water is very important, even considering all the other issues and needs facing their communities. The goal of the workshops is help these key decision makers and their advisors make informed decisions that will protect and improve water quality, sustain property values, and make the most effective use of tax dollars. These evening workshops are intended to provide information and management tools as well as an opportunity to share success stories and learn from peers from other cities and counties.

Recognizing that cities in the western Metro area run from highly developed to suburban to agricultural, the first two workshops will be offered as two sessions: the first will be tailored to issues facing developed and redeveloping cities, and the second to developing and predominantly agricultural communities. The final TMDL workshop will be offered as one session, applicable to all. Each session will start with a keynote speaker, continue on with a presentation covering the latest techniques and planning tools for stormwater management, and following a networking break, conclude with a panel presentation and discussion of specific examples of successful projects, research, development, and regulation. A light dinner will be served.

The West Metro Water Alliance (WMWA) is a consortium of the Shingle Creek, West Mississippi, Bassett Creek, Elm Creek, and Pioneer-Sarah Creek Watershed Management Commissions. This consortium provides coordinated water resources education and outreach for nearly 30 cities in western Hennepin County.

BASSETT CREEK: Crystal • Golden Valley • Medicine Lake • Minneapolis • Minnetonka • New Hope • Plymouth • Robbinsdale • St. Louis Park
ELM CREEK: Champlin • Corcoran • Dayton • Hassan • Maple Grove • Medina • Plymouth • Rogers
PIONEER-SARAH CREEK: Greenfield • Independence • Loretto • Maple Plain • Medina • Minnetrista
SHINGLE CREEK: Brooklyn Center • Brooklyn Park • Crystal • Maple Grove • Minneapolis • New Hope • Osseo • Plymouth • Robbinsdale
WEST MISSISSIPPI: Brooklyn Center • Brooklyn Park • Champlin • Maple Grove • Osseo

Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Company
Subject: Item 5B – Wirth Lake 2010 Improvements - Golden Valley
BCWMC January 20, 2011 Meeting Agenda
Date: January 12, 2011
Project: 23/27 051 2010 199

5B. Wirth Lake 2010 Improvements: Golden Valley

Summary

Proposed Work: Phase I of the Wirth Lake Site Improvement Master Plan

Basis for Commission Review: Alternative Treatment

Change in Impervious Surface: 0.98 acres for the 2010 Improvements, 4.23 acres overall

Recommendation: To be determined at meeting

General Background & Comments

The Minneapolis Parks and Recreation Board has proposed improvements to the Wirth Lake Area within Theodore Wirth Park, bounded by Highway 55, CP Rail and Xerxes Ave, France Ave, and Chestnut Ave. The improvements are scheduled for implementation between 2011 and 2013. The proposed Phase 1 2010 improvements (to be constructed in 2011) include:

- Beach parking lot reconstruction
- Bituminous and concrete paths
- Boardwalks on helical piers
- Bituminous access drive and ADA parking at the existing pavilion
- Addition of sand within the Wirth Beach swim area
- Wetland replacement west of the existing beach parking lot
- Bio-retention basin for treatment of stormwater runoff upstream of the wetland
- Wet pond for treatment of Hwy 55 runoff

There will be an increase in impervious area of 0.98 acres for the 2010 improvement plan, with a total increase in impervious area of 4.23 acres. Proposed BMP's identified in the master plan for the entire site include two bioretention basins, a wet pond, and pervious pavers. The project is in the Wirth

Lake and Main Stem watersheds. This review includes the 2010 site improvements, unless otherwise noted. The site improvements will involve grading an area larger than five acres, and an increase in impervious surface of more than 10,000 square feet, so it is required that the site both meet the BCWMC non-degradation standards and Level 1 standards for the disturbed area.

Floodplain

Although the project site is within the Wirth Lake FEMA floodplain, Wirth Lake floodplain is not regulated by the BCWMC since it is an off-line basin. Therefore, no review of the affect on the floodplain was conducted. Floodplain impacts along Bassett Creek will be reviewed following submittal of future phases, as necessary.

Wetlands

The improvements include excavation and construction in the wetland located south of the park pavillion. The City of Golden Valley is the Local Government Unit (LGU) responsible for review of the project for conformance to the MN Wetland Conservation Act.

Stormwater Management

The majority of the site discharges directly into Wirth Lake, but a portion of the site will discharge to the wetland southwest of the beach house. Six sump manholes are proposed along the storm sewer system north of Glenwood Ave to catch sediment prior to discharging into the wetland.

Water Quality Management

Permanent BMP's identified in the master plan include construction of two bioretention basins and a wet pond. The BMP's to be implemented as part of the 2010 improvements (constructed during 2011) include one of the bioretention basins and the wet pond. The water quality data provided for review is based on the overall site improvements to be implemented 2011-2013.

A total of 7.8 acres will discharge to the two bioretention basins, 6.5 acres to Bioretention Basin #1 (to be constructed in 2011) and 1.3 acres to Bioretention Basin #2 (to be constructed as part of the future site improvements). The proposed wet pond will treat runoff from Highway 55 before it reaches Wirth Lake. This pond was initially part of the BCWMC CIP but has been removed. The pond is proposed to be constructed by MPRB to improve stormwater discharge to Wirth Lake and to compensate for treating new impervious area within the park that may not meet level 1 criteria due to bioretention basin sizing or due to the linear nature of the trails. The wet pond will receive runoff from a total area of 36.5 acres.

Pervious pavers are also proposed, however no credit was taken for water quality treatment that they provide.

Erosion and Sediment Control

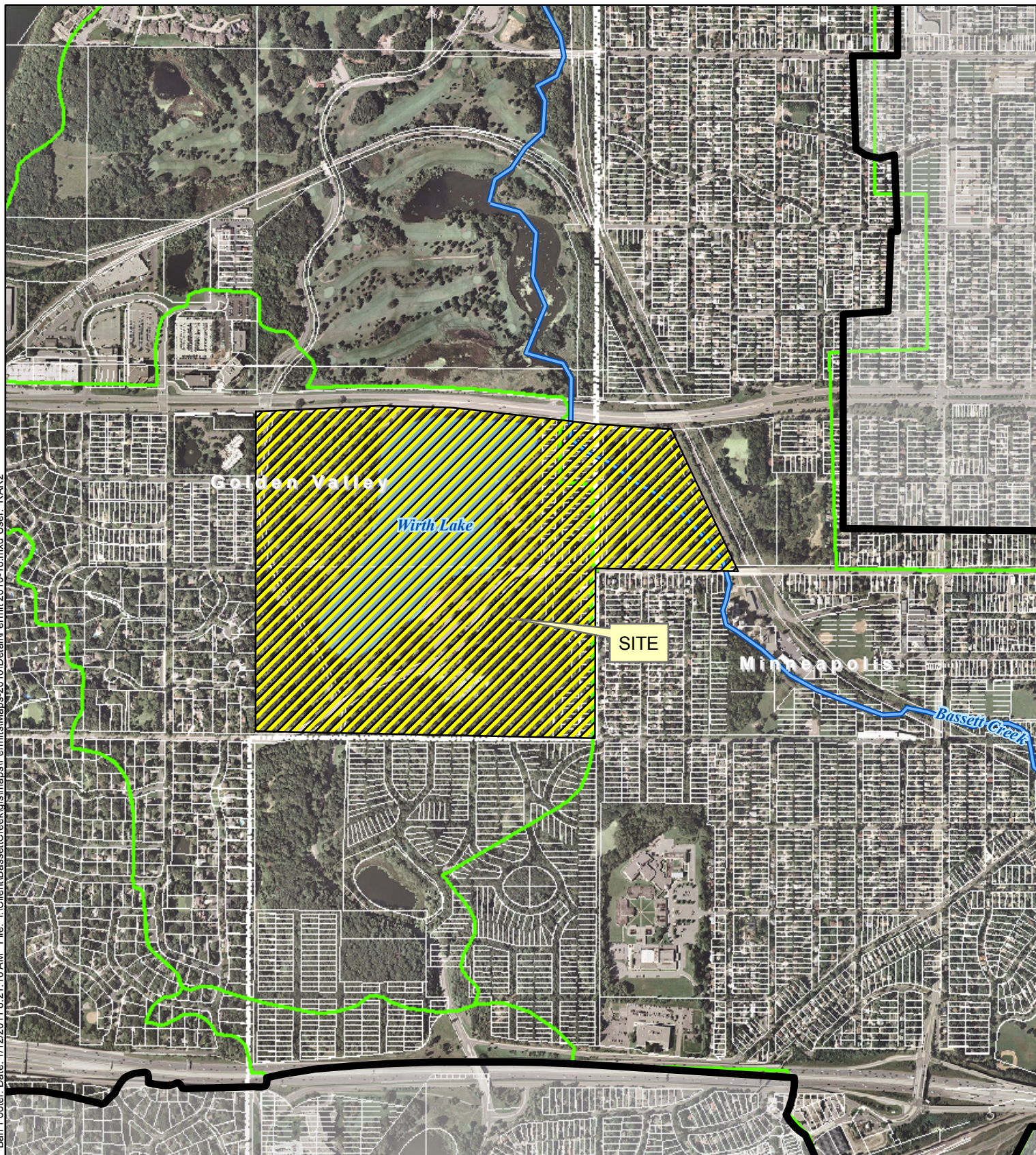
Temporary erosion control features include biolog sediment control around the area to be graded, silt fence around temporary soil stockpiles, flotation silt curtain downstream of the wetland and wet pond, inlet protection around existing storm sewer inlets, and rock construction entrances. Bioretention basin #1 will also be used as a temporary sedimentation basin during construction.

Recommendation

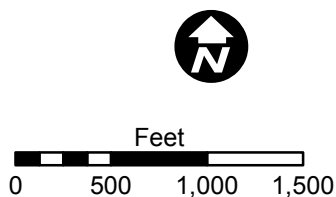
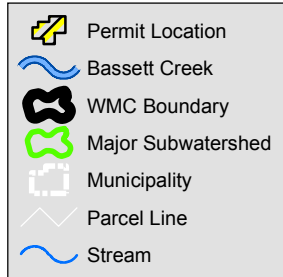
Recommendation will be provided at the meeting. Additional information has been requested from the applicant to address the following items:

1. The following items should be provided in order to finish the review of the water quality analysis
 - a. Watershed divides that used for the inputs to the P8 modeling
 - b. A breakdown of the impervious vs. pervious areas that are included in the P8 modeling
2. Bioretention Basin #1 will not function properly since the normal water level of the downstream wetland is higher than the bottom of the pond. The basin must be reconfigured to provide adequate distance between the groundwater and the filter medium to allow the system to function properly. It is also recommended that bioretention basins be used for drainage areas of less than two acres. If feasible, multiple bioretention basins may be an option to treat the area that will discharge to Bioretention Basin #1.
3. Design plans for Bioretention Basin #2 must be provided (pond and under-drain elevations, pretreatment, etc) or the water quality calculations should only reflect the treatment achieved by BMP's proposed for the 2010 site improvements.
4. The following items should be provided on the plan sheets
 - a. Labels on all temporary erosion control devices must be shown on the grading plan sheets.
 - b. All inlet protection and site-access roads must be shown and labeled on the grading plan sheets.
 - c. Detail on the silt fences to be used around temporary soil stockpiles must be included.
 - d. Storm sewer profiles for the bioretention basins must be included.
 - e. Sheet L6 should note that the parking lot runoff should discharge to grass filter strips before entering the bioretention basin. If the cross-hatching on the sheet does not indicate grass filter strips will be used, other pre-treatment should be considered to remove 25-30% of sediment loads before discharge reaches the bioretention basin.
 - f. Sheet L16: confirm the proposed NWL of the receiving wetland and revise, as necessary.

- g. The biofiltration planting plan should be included on the plan sheets, and reflect the recommended plants included in *Plants for Stormwater Design Species Selection for the Upper Midwest* (MPCA, July 2003).
 - h. A note stating “to the extent possible, excavation in and around the bioretention basins must be performed by equipment with tracks exerting relatively light pressures to prevent basin floor from being compacted, which reduces the infiltration capacity” should be included with the grading details.
 - i. A note stating “temporary vegetative cover must be spread at 1.5 times the usual rate per acres. If temporary cover is to remain in place beyond the present growing season, two-thirds of the seed mix shall be composed of perennial grasses” should be included on the plan sheets and in the SWPPP.
5. The applicant must demonstrate how the proposed wet pond will provide the necessary water quality treatment to bring the entire site up to Level 1 standards (ie – how much additional water quality treatment is needed over the bioretention basins).
6. Sheet L16: the depth of the sump manholes should be increased to at least 4 feet to minimize re-suspension of the sediment. We also recommend increasing the diameter of the 48-inch manholes and adding a baffle structure to improve efficiency. The program “SHSAM” could also be used to efficiently size the sump manholes.
7. Sheet P1: The seed mixes identified should be revised per the new state standard mixes.
8. If feasible, the pervious pavers should discharge directly to the bioretention basin for treatment. Modeling must indicate actual drainage scenario.
9. A maintenance agreement for the wet pond, bioretention basin and pervious pavers must be prepared with the City of Golden Valley.
10. Updated plan sheets must be submitted with these changes for review.
11. Additional comments will be provided to the applicant after requested information has been provided and reviewed.



Imagery Source: Aerials Express, 2009



LOCATION MAP
APPLICATION 2010-18
Wirth Lake Site Improvements
Golden Valley, MN



Memorandum

To: Bassett Creek Watershed Management Commission
From: Technical Advisory Committee
Subject: January 6, 2011 TAC Meeting
Date: January 11, 2011

The Technical Advisory Committee (TAC) met on January 6, 2011. The following TAC members, city representatives, staff, and others attended the meeting:

City	TAC Members/Alternates	Other City Representatives
Crystal	Tom Mathisen	
Golden Valley	Jeaninne Clancy, Jeff Oliver	Chair Linda Loomis
Medicine Lake	Vacant position	
Minneapolis	Lois Eberhart, Pat Byrne	
Minnetonka	Lee Gustafson, Liz Stout	
New Hope	Guy Johnson, Jason Quisberg	
Plymouth	Derek Asche, Bob Moberg	
Robbinsdale	Absent	Commissioner Wayne Sicora
St. Louis Park	Laura Adler	
BCWMC Staff	Geoffrey Nash, Karen Chandler	
Also in attendance was Deb Pilger, Minneapolis Park & 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) BCWMC's Capital Improvement Plan and 2) on selecting a participant for the MPCA's Twin Cities Metropolitan Chloride Project.

1. CIP Project Modifications

The TAC reviewed the Bassett Creek CIP that was approved by the Commission in 2010. There was discussion about how the CIP was originally developed and why projects were scheduled to be completed as proposed in the current CIP. Several new projects were brought forward by cities to be completed in 2012, as there are no projects currently scheduled on the CIP list for 2012. The TAC discussed the

relative water quality benefits of the existing and new projects. Because of their water quality benefits, the TAC members gave a higher priority to the new projects than other projects already on the CIP list.

Recommendations on the CIP Project Modifications:

Four projects were recommended to the Commission by the TAC for 2012 and one in 2013.

- Wirth Lake Outlet Structure (Minneapolis), \$250,000 - \$75,000 (BWSR grant funding) = \$175,000. This is a new water quality project with grant funding that has to be spent in two years. Therefore, it has a high priority. The TAC recommended adding this project to the 2012 CIP.
- Restore Main Stem Channel (Wirth Park, Minneapolis), \$600,000. This water quality project would restore stream banks along Bassett Creek. The TAC recommended that this project be moved from 2017 to 2012 because it is a more significant water quality improvement project than others on the list.
- The Sweeney Lake Outlet project in Golden Valley was recommended to have a feasibility study performed in 2012 to determine the most practical way to complete the project. The approximate cost of that study would be approximately \$10,000 and the cost of the entire project would be approximately \$250,000. At their September 2010 meeting, the Commission discussed this project and expected the TAC to discuss its placement on the CIP. At the September 2010 Commission meeting, the possibility of funding the project through flood control emergency maintenance funds.
- The Schaper Pond project in Golden Valley was recommended to have a feasibility study performed in 2012 to determine the most practical way to complete the project. The approximate cost of that study would be \$50,000 and the scope and cost of the entire project has yet to be determined. This project is included as an implementation project in the draft Sweeney Lake TMDL.
- The Lakeview Pond project, in Golden Valley, was recommended to be performed in 2013. The project would involve dredging to restore water volume and the cost of the project would be approximately \$196,000. The project would provide treatment of stormwater runoff in the Medicine Lake watershed and would assist in meeting the goals of the Medicine Lake Excess Nutrient TMDL. This project was originally in the BCWMC CIP, but was removed because of high costs associated with asbestos pipe removal. Now that the cost is much lower, the City of Golden Valley is requesting that the project be included in the BCWMC CIP.
- In all, projects totaling \$835,000 were recommended by the TAC for Commission consideration and inclusion on the CIP for 2012. The TAC will discuss the other CIP projects beyond 2012 at their February meeting.
- The TAC recommended that the Commission prepare and adopt a process to a) incorporate projects identified in the TMDL studies into the CIP, and to b) prioritize them with respect to the other projects in the CIP. The TAC did not have the time to discuss this at the January meeting, but could take it up at its next scheduled meeting.
- Linda Loomis requested that Barr and the Administrator collaborate to identify which of the above projects would be most likely to qualify for BWSR grants and make those recommendations to the Commission.

2. MPCA's Twin Cities Metropolitan Area Chloride Project

At the December Board meeting, the MPCA invited BCWMC to appoint a representative to the MPCA's Twin Cities Metropolitan Area Chloride Project. The TAC agreed that it was important to have someone with connections to municipal road maintenance operations involved in these discussions.

Recommendations on the Metropolitan Chloride Project:

The TAC recommended that Derek Asche, City of Plymouth, be appointed as the BCWMC's representative on the project.

3. Hydrologic and Water Quality Modeling status

The TAC was provided with two Barr memos regarding cost estimates to update the engineer's hydrologic and water quality models in the watershed.

Not enough time was available to pursue a discussion of this item and it was postponed until the TAC meeting in February.

Other Business

The next TAC meeting has been scheduled for Thursday, February 3, 2011.

Future possible TAC issues include:

- Review Education committee hand outs
- Rate control/volume monitoring
- How should TMDL project implementation be integrated into the CIP?
- Next Generation Watershed Plan
- TMDL categorical responsibilities and monitoring changes/additions necessary for oversight
- Additional CIP Review



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Memorandum

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Company
Subject: Item 6B - Interstate Highway 494 Environmental Assessment Worksheet Review
BCWMC January 20, 2011 Meeting Agenda
Date: January 11, 2011
Project: 23/27 051 2010

6B. BCWMC Comments on MnDOT's Environmental Assessment/EA Worksheet for its Interstate 494 Expansion Project in Minnetonka, Plymouth, and Maple Grove

Recommended/requested Commission actions:

1. Authorize staff to submit comments to the Minnesota Department of Transportation (MnDOT) regarding the Environmental Assessment Worksheet.

Background

The Minnesota Department of Transportation (MnDOT) is planning to add another lane in each direction on Interstate 494 from East Fish Lake Road, south to Interstate 394. MnDOT is the proposer and the Responsible Governmental Unit (RGU) for this project. Preparation of an EAW is considered mandatory under Minnesota Rules 4410.4300 subpart 1, and under 4410.4300 subpart 22(b), for construction of additional travel lanes on an existing road for a length of one or more miles. Comments on this EAW are due January 26, 2011. The segment of the project in the Bassett Creek watershed extends from approximately 2,000 feet north of County Road 9 to Carlson Parkway in the City of Plymouth. A map of the project extent is attached.

In past practice MnDOT has provided detailed design drawings upon their completion for the Commission's review and comment. We expect that to occur with this project as well. The timeframe for construction of the project is yet to be determined.

This review of the Environmental Assessment Worksheet (EAW) focuses on the areas potentially impacted by the project that are within the BCWMC jurisdiction.

- a. **Water Quality:** The project will add 30.7 new acres of impervious surface along the entire corridor between East Fish Lake Road and I-394. 13.9 of those new impervious acres will be within the Bassett Creek watershed and the Medicine Lake subwatershed. The EAW calls for 2.9 acres of ponding along the entire corridor, but only potential ponding locations are shown on the figures.

The EAW acknowledges increased nutrient loading, volume, and rates due to the addition of impervious surfaces, but does not quantify these increases. The EAW states that final treatment

design will be identified during the development of final plans. On page 44, paragraph 2 it is stated that *"The project will construct ponds of a size necessary for the current project and may include compensatory water quality storage to mitigate for portions of the roadway which cannot be routed into ponds."* This implies a trading of treatment between road sections which may leave some stretches of road without treatment. It appears that within the three segments draining to Medicine Lake, numerous stormwater discharge points may not receive additional treatment for the increased impervious area (see attached **pages 39-44** and **Figures B-D**). This makes it difficult to determine the project impacts to Medicine Lake.

Recommended Comment: The EAW states that in some drainage areas extra treatment and rate control will occur in place of treatment in other drainage areas where space is limited. This could mean some drainage to public waters is left with insufficient treatment or rate control. The project should work to reduce stormwater impacts within each project segment or reduce impacts by receiving water body rather than by the project as a whole. That would allow review of impacts against other management activities and a rational compensatory treatment approach. One of the most effective ways to reduce pollutant loadings is to reduce the volume of stormwater runoff through infiltration or treat the runoff through filtration. The BCWMC urges MNDOT to implement sufficient infiltration and filtration measures within each drainage area.

- b. **Medicine Lake TMDL:** The Draft Medicine Lake TMDL (September, 2010) calls for a 28% reduction in phosphorus loading by the various MS4s in the watershed. The EAW does not reflect this cooperative effort. It neither quantifies nor acknowledges the draft TMDL's proposed waste load allocation for MnDOT nor the reduction target. Instead, the EAW calls for not increasing loading for the project as a whole. The EAW contains no quantification of the increased phosphorus loading or increased flow volumes and rates expected for the project as requested in the worksheet (**Questions 17 a&b on pages 39-44** of attached).

Recommended Comment: The September 2010 Draft Medicine Lake TMDL specifies a discharge allocation of 94 lbs/year of phosphorus for MnDOT. According to the Draft TMDL, MnDOT needs to reduce its current loading by 28% to meet this allocation. The EAW should estimate the resulting nutrient loading to Medicine Lake from the project and contrast it to the Draft TMDL. The project needs to consider TMDL implementation for the Medicine Lake watershed and *reduce* nutrient loading to the extent possible. The BCWMC expects that efforts and expenditures will be required of all MS4s in the watershed to reach the Medicine Lake water quality goals contained in the TMDL study.

- c. **Floodplain and Rate Control:** While the EAW acknowledges that stormwater flows and volume will increase as a result of the project, it does not quantify the increased flow volumes and rates.

Recommended Comment: The project should quantify rate and volume increases due to the project and mitigate any increases accordingly. Plymouth Creek has experienced significant erosion and sedimentation and the BCWMC, in partnership with the City of Plymouth, has invested in projects to address these issues. Increased stormwater runoff volumes and rates from

To: Bassett Creek Watershed Management Commission
From: Barr Engineering Company
Subject: Item 6B. BCWMC Comments on MnDOT's Environmental Assessment/ EA Worksheet for its Interstate 494 Expansion Project in Minnetonka, Plymouth, and Maple Grove
Date: January 11, 2011
Page: 3

this project could undermine the effectiveness of this work. BMPs must be implemented to minimize flood related impacts and ensure flood profiles are not increased along the creek.

- d. **BMP Maintenance:** The EAW does not address future maintenance issues or responsibilities.

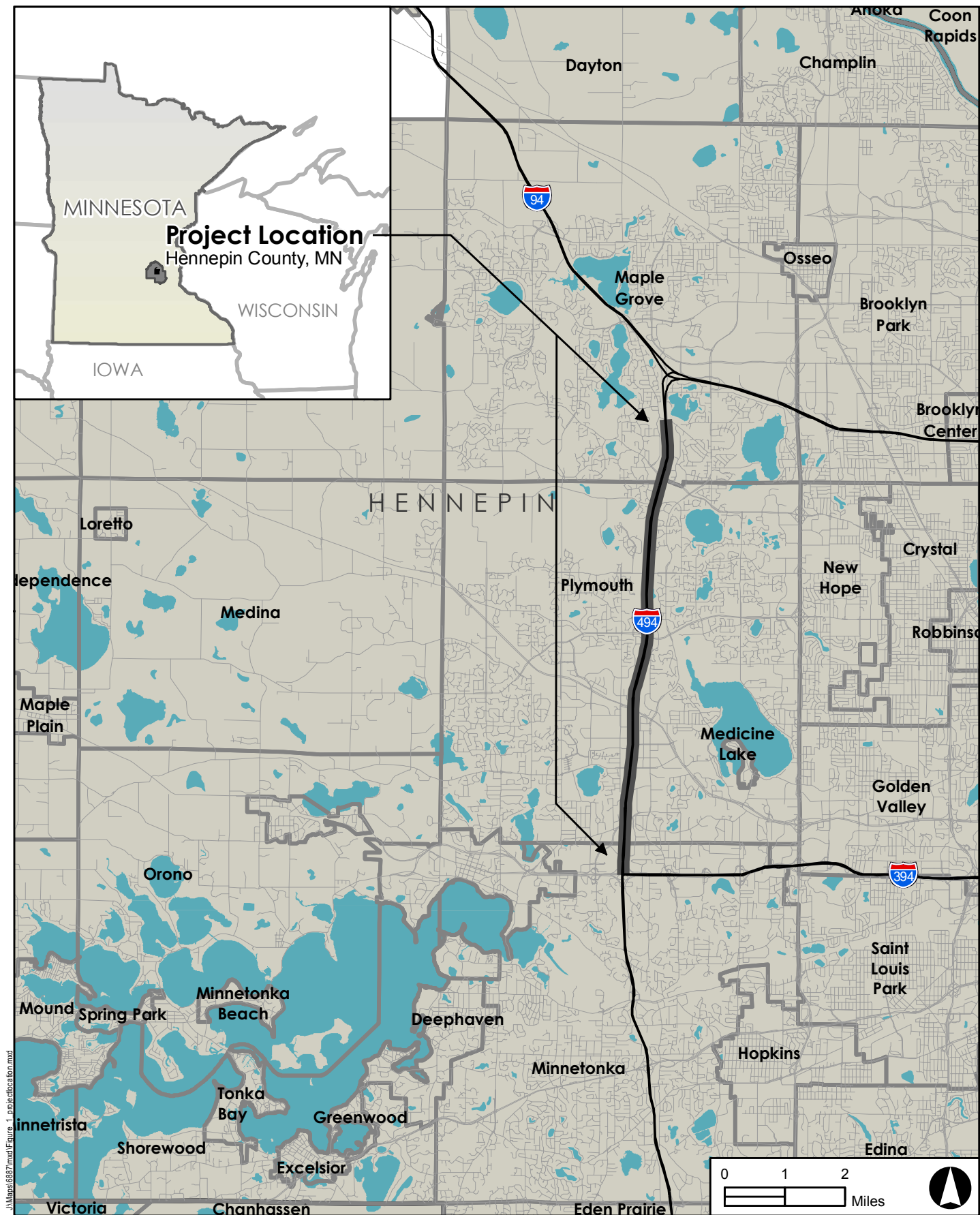
Recommended Comment: Maintenance of stormwater management (water quality and flood control) features is critical to ensure proper operation. The maintenance measures that will occur should be described in the EAW to ensure the efficacy of stormwater management features. The EAW should identify the responsible agency for inspections, for maintenance, and for scheduling activities.

- e. **Wetland Management:** The EAW identifies 1.4 acres of wetland in the project area from delineations done in 2003-2004. The EAW states no impacts are proposed to wetland areas. MnDOT proposes to use the local Technical Evaluation Panel process (TEP) to validate the delineation and review impacts.

Recommended Comment: The BCWMC's wetland goal is to achieve no net loss of wetlands in the watershed in conformance to the MN Wetland Conservation Act (WCA) and associated rules (MN Rules 8420). The City of Plymouth is the Local Governmental Unit for the administration of the Wetland Conservation Act in the portion of the BCWMC impacted by the project.

- f. **Erosion Control:** The EAW states that MnDOT will follow the NPDES erosion control requirements and will consider the local city and watershed standards in preparing final plans.

Recommended Comment: The BCWMC's goal is to prevent erosion and sedimentation to the greatest extent possible to protect water resources from increased water quality problems. Temporary and permanent best management practices (BMPs) must be implemented to control construction and post-development runoff and erosion from the site.

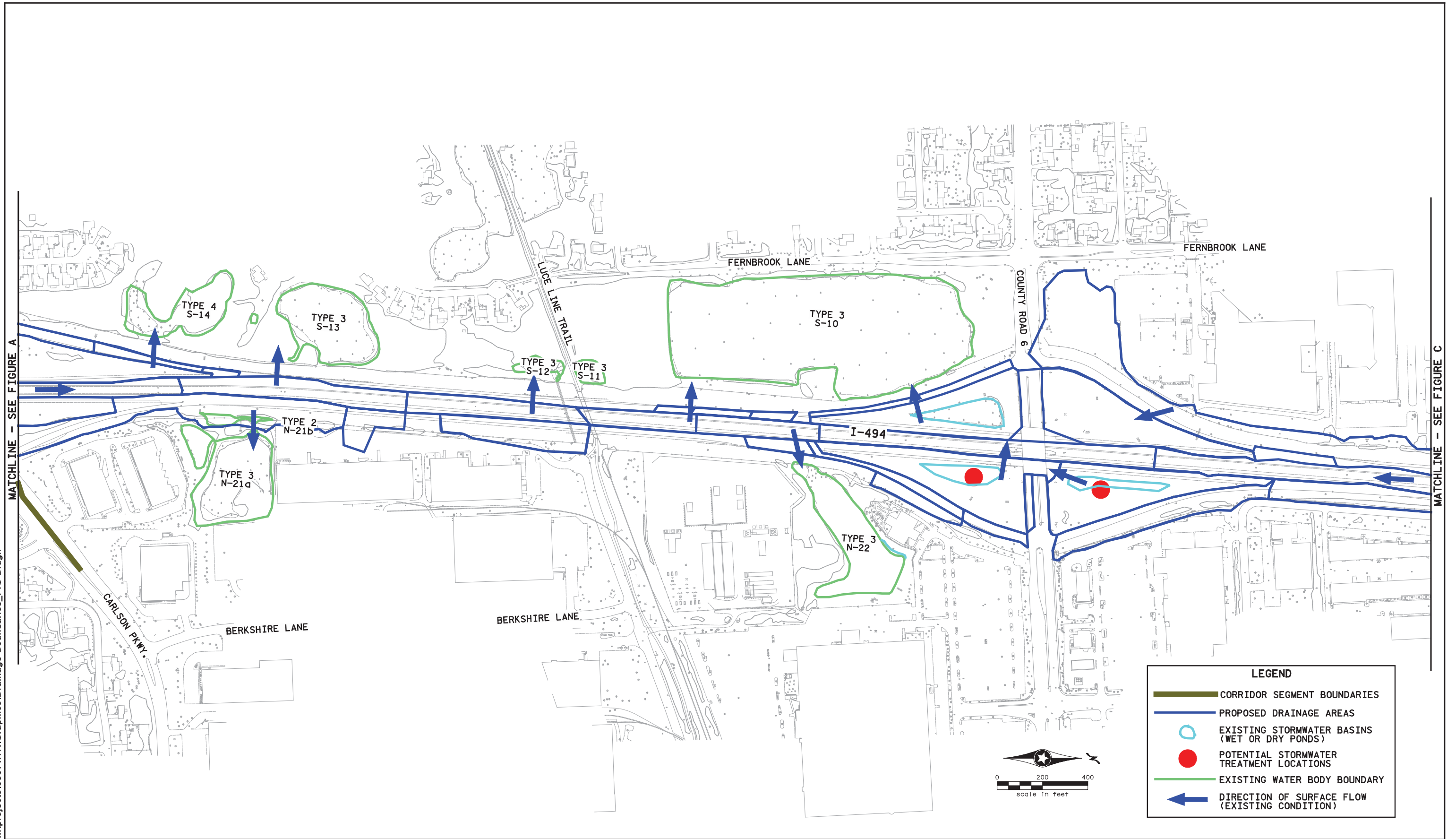


Area Location

I-494 Expansion Project (I-394 to East Fish Lake Road Overpass)
SP 2785-330
Mn/DOT

Figure 1

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Water Resources

Interstate 494 Expansion Project (Interstate 394 to East Fish Lake Road)

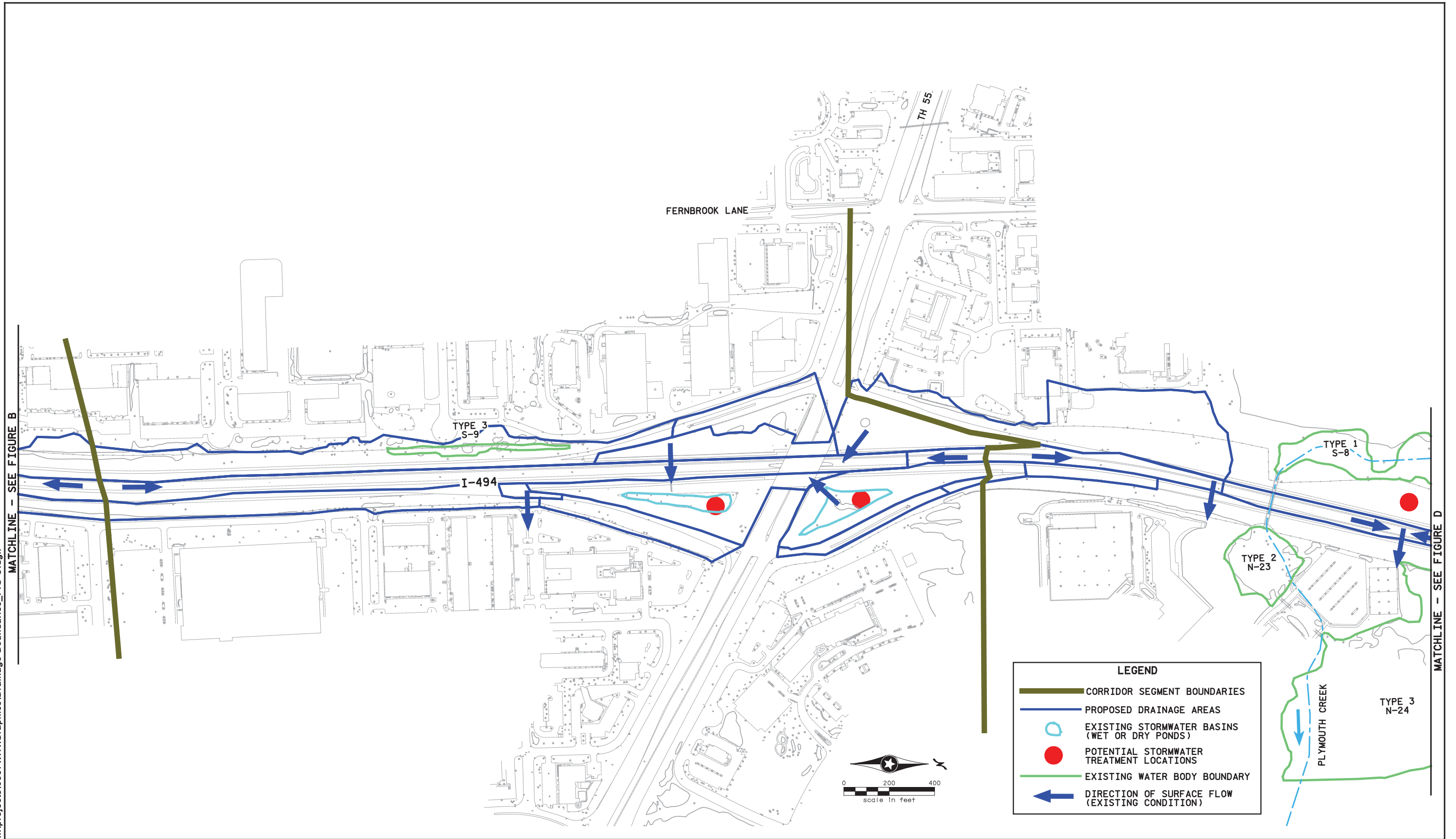
SP 2785-330

Mn/DOT

Figure B

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MATCHLINE - SEE FIGURE B



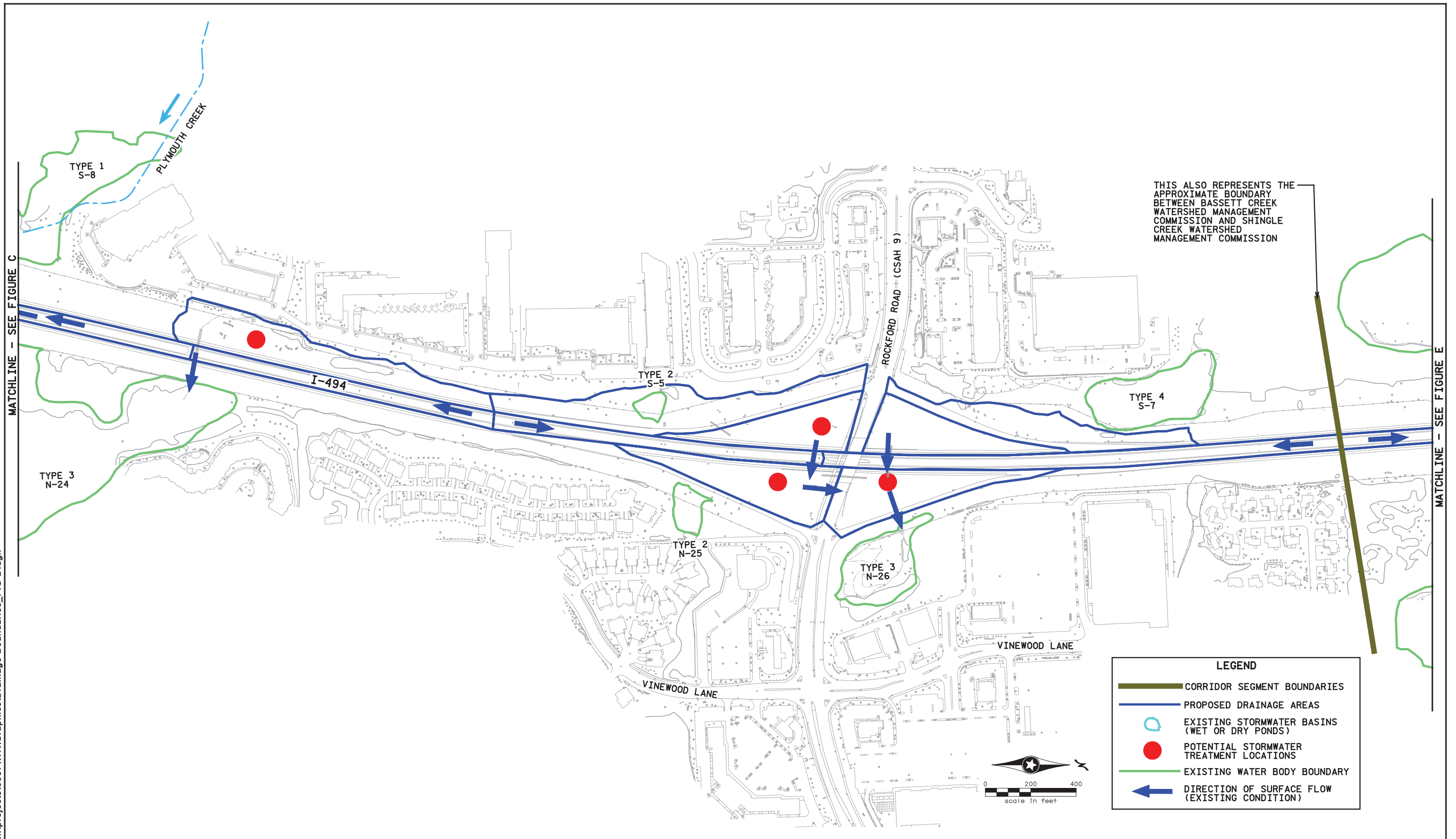
MATCHLINE - SEE FIGURE D

Water Resources

Interstate 494 Expansion Project (Interstate 394 to East Fish Lake Road)
SP 2785-330
Mn/DOT

Figure C

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Water Resources

Interstate 494 Expansion Project (Interstate 394 to East Fish Lake Road)

SP 2785-330

Mn/DOT

Figure D

Creek WMC. A Storm Water Pollution Prevention Plan (SWPPP) that includes erosion control and sediment management practices is required to be prepared in partial fulfillment of the NPDES permit. Given that the project is estimated to disturb less than 50 acres (based on proposed construction activities within the existing I-494 center median), the SWPPP does not need to be submitted to the MPCA for a 30-day review; however, this should be re-evaluated during final design to ensure that the area of disturbance still falls within this threshold. If the disturbed area does exceed 50 acres, the SWPPP will need to be submitted at least 30 days prior to the commencement of construction activities as the project drains to and is within one mile of several impaired waters. Erosion control measures will be in place and maintained throughout the entire construction period. Removal of erosion measures will not occur until all disturbed areas have been stabilized.

17. Water Quality: Surface Water Runoff.

- a. Compare the quantity and quality of site runoff before and after the project. Describe permanent controls to manage or treat runoff. Describe any stormwater pollution prevention plans.**

Response:

Background Information (Traffic-Related Pollutants)

Traffic-related pollutants consist of copper, lead, zinc, and phosphorus. A study conducted by the U.S. Environmental Protection Agency (EPA) entitled, *Results of the Nationwide Urban Runoff Program, December 1983*, have identified the above pollutants as the predominant constituents in highway runoff. Other common pollutants are total suspended solids (TSS) and chloride.

Regulatory Framework

The I-494 project corridor between I-394 and the East Fish Lake Road overpass falls within one watershed district (the Minnehaha Creek Watershed District-MCWD); two watershed management commissions (Bassett Creek-BCWMC, and Shingle Creek-SCWMC); and three Cities (Minnetonka, Plymouth, and Maple Grove). Each watershed has a watershed management plan under which a set of rules and regulations governing water resources has been promulgated. Each of the Cities also has surface water management plans that provide guidelines and policies for surface and groundwater management and conveyance. Mn/DOT will obtain a permit from the MCWD and coordinate with the WMCs and Cities in the project corridor. Where possible, Mn/DOT will attempt to meet the requirements of all watershed organizations and Cities listed above. Where variances may be required from the permitting agencies, communication with the watershed district and the City will occur during final design and agreement gained prior to submitting

permit applications to the watershed district or seeking City Council approvals.

The project corridor was divided into seven corridor segment boundaries, based upon existing drainage patterns. The corridor segment boundaries were further sub-divided into drainage areas reflecting points where runoff leaves the corridor or culvert locations in the existing condition, as shown in the project layout drainage map (see Figure A through Figure G, Appendix D). The seven drainage corridor segments, applicable watershed district or watershed management commission, and Cities along the project corridor are listed in Table 9.

TABLE 9
WATER RESOURCES: REGULATORY FRAMEWORK

Regulatory Framework				
Drainage Corridor Segment #	Drainage Corridor Segment Name (Description)	Drainage Map #	Watershed District (WD) or Watershed Management Commission (WMC)	City/Cities
1	I-394 (I-394 to Carlson Pkwy)	Appendix D, Figure A	Minnehaha Creek WD	Minnetonka, Plymouth
2	CSAH 6 (Carlson Pkwy to north of CSAH 6 ramps)	Appendix D, Figures B and C	Bassett Creek WMC	Plymouth
3	TH 55 (north of CSAH 6 ramps to TH 55)	Appendix D, Figure C	Bassett Creek WMC	Plymouth
4	Rockford Road – CSAH 9 (TH 55 to north of CSAH 9)	Appendix D, Figures C and D	Bassett Creek WMC	Plymouth
5	Schmidt Lake Road (north of CSAH 9 to south of CSAH 10 interchange ramps)	Appendix D, Figures D, E and F	Shingle Creek WMC	Plymouth
6	Bass Lake Road – CSAH 10 (CSAH 10 to south of East Fish Lake Rd overpass)	Appendix D, Figures F and G	Shingle Creek WMC	Plymouth, Maple Grove
7	Fish Lake Road (south of East Fish Lake Rd overpass to northern project terminus)	Appendix D, Figure G	Shingle Creek WMC	Maple Grove

Water Quantity (Before and After Project)

Runoff volume is expected to increase as a result of the project. Existing impervious area and proposed impervious area for the seven drainage corridor segments within the project area are summarized in Table 10. The existing impervious surface within the I-494 drainage areas is 111.5 acres, or roughly 34.1 percent of the total drainage area. The project will increase the

impervious cover by 30.7 acres. This will bring the total impervious surface within all described drainage corridor segments to 142.2 acres, or roughly 43.5 percent of the total drainage area.

TABLE 10
WATER RESOURCES: DRAINAGE AREAS

Drainage Corridor Segment #	Drainage Corridor Segment Name	Drainage Area Size (acres)	Existing Impervious Area (acres)	Proposed Impervious Area (acres)	Increase in Impervious Area (acres)	Receiving Water Bodies
1	I-394	86.0	15.8	19.6	3.8	Wetland, Gleason Lake, Lake Minnetonka
2	CSAH 6	56.3	18.9	24.0	5.1	Wetlands, Plymouth Creek, Medicine Lake
3	TH 55	35.6	12.0	14.8	2.8	Plymouth Creek, Medicine Lake
4	Rockford Road – CSAH 9	44.5	23.8	29.8	6.0	Wetlands, Plymouth Creek, unnamed intermittent stream, Medicine Lake
5	Schmidt Lake Road	45.5	14.5	20.3	5.8	Wetlands, Bass Creek, Bass Lake
6	Bass Lake Road – CSAH 10	56.7	23.4	30.1	6.7	Wetlands, Bass Lake, Pike Creek, Pike Lake/Eagle Lake
7	Fish Lake Road	2.3	3.1	3.6	0.5	Wetland, Cedar Island Lake
TOTALS		326.9	111.5	142.2	30.7	

Notes: The impervious area measurements shown in this table include all impervious surfaces within the drainage boundaries. This includes existing pavement outside of the project construction limits.

Both watershed rules and city policies have been considered in the preliminary design of the water resources features associated with the I-494 improvements. During preliminary design, those policies that are most stringent have been followed. All the Cities and watershed organizations require that discharge rates under the proposed conditions be no greater than those under existing conditions. Therefore, a goal of the project is to limit discharge rates under the proposed conditions to those of the existing conditions. Rate control for each drainage corridor segment is discussed below (Water Quality, Before and After Project).

Water Quality (Before and After Project)

The existing roadway incorporates a rural drainage system through most of the corridor, with the interchange ramps having an urban design consisting of curb and gutter, catch basins, and storm sewer to convey runoff to the adjacent roadside ditches, infield areas, or to various receiving waters. The existing corridor was constructed over the course of the past 40 years and includes only two ponding areas, which were constructed in the 1960s.⁵ At the I-394 interchange, which was constructed more recently, nearly all the stormwater generated is routed through detention basins in order to provide water quality treatment as well as rate control.

As noted in the previous section, runoff volume and associated pollutant loading is expected to increase as a result of the project. Stormwater runoff will be conveyed treatment areas/basins to mitigate water quality impacts. Potential locations for best management treatment practices are shown in Figures A through G in Appendix D (Water Resources Drainage Maps). Best management treatment practices for each drainage corridor segment are described below. The applicable watershed district or watershed management commission is also noted with the discussion of corridor segment.⁶

1. I-394 Segment (MCWD) (Appendix D, Figure A): There is relatively little additional impervious surface for drainage in segment #1. Outflow from the pond system would be regulated to match existing flows to the greatest extent possible. The ramp infield areas of the I-394 interchange may be utilized for infiltration or filtration BMPs, with low flows from the pond directed to the infiltration/filtration BMP for treatment.

2. CSAH 6 Segment (BCWMC) (Appendix D, Figures B and C): There are three existing dry ponds in the CSAH 6 interchange. As a part of this project, these basins will be expanded to include a wet pond and/or an infiltration/filtration basin to provide treatment and rate attenuation for the new pavement. Any new wet ponds would be located only within the infields of on-ramps.

3. T.H. 55 Interchange Segment (BCWMC) (Appendix D, Figure C): The TH 55 interchange drainage is collected in existing ponds in the southeast and northeast quadrants of the interchange. The pond outflow is to the same storm sewer as the ditch drainage. These basins will be expanded to provide a wet pond and/or infiltration/filtration basins to provide treatment and rate attenuation. Any new wet ponds would be located only within the infield areas of the TH 55 on-ramps to I-494.

⁵ Although described as ponding areas, infield areas within the CSAH 6 and TH 55 interchanges provide varying levels of rate attenuation and limited treatment as a result of existing topography and conveyance patterns.

⁶ MCWD = Minnehaha Creek Watershed District; BCWMC = Bassett Creek Watershed Management Commission; SCWCD = Shingle Creek Watershed Management Commission

4. Rockford Road – CSAH 9 Segment (BCWMC) (Appendix D, Figures C and D): The I-494 segment between Plymouth Creek and CSAH 9 has no existing ponding. Runoff is conveyed through wetlands to Plymouth Creek. Two wet ponds and/or infiltration/filtration basins are proposed within Mn/DOT right of way to the north of the Plymouth Creek crossing to provide treatment and rate attenuation.

The CSAH 9 interchange area has no existing ponding; however, runoff drains through the ramp infield areas until it outlets into a wetland just outside the northbound onramp to I-494. Wet ponds and/or infiltration/filtration basins are proposed within the CSAH 9 interchange. Any new wet ponds would be located only within the infield areas of the CSAH 9 on-ramps to I-494. Refer to Section VII.A, Item 11.b regarding runoff and the maple-basswood natural community located to the northwest of the CSAH 9 interchange.

5. Schmidt Lake Road Segment (SCWMC) (Appendix D, Figures D, E and F): There is no existing stormwater ponding within this drainage segment. Given the proximity of adjacent wetlands to the corridor, steep slopes and limited right of way, it is not feasible to incorporate wet detention ponds or infiltration/filtration basins within the Mn/DOT right of way. There are limited opportunities for enhanced ditches that could provide infiltration or filtration as well as some level of rate attenuation. Therefore, treatment and rate control for an equivalent area will be provided in drainage segment #6 (Bass Lake Road segment) as described below. Proprietary hydrodynamic separators could be provided to remove larger sediment and hydrocarbons, if necessary, to provide some measure of water quality treatment prior to discharging to Curtis Lake, wetlands and Bass Creek.

A portion of the maple-basswood natural community located to the northwest of the CSAH 9 interchange may fall within drainage segment #5. Refer to Section VII.A, Item 11.b for a discussion of runoff and the maple-basswood natural community.

6. Bass Lake Road – CSAH 10 Segment (SCWMC) (Appendix D, Figures F and G): Given the proximity of steep slopes and limited right of way, it is not feasible to incorporate wet detention ponds or infiltration/filtration basins within the Mn/DOT right of way. Therefore, all treatment for drainage segment #6 will take place within the Bass Lake Road interchange. Enhanced ditches that provide infiltration or filtration as well as some level of rate attenuation or proprietary hydrodynamic separators to remove larger sediment and hydrocarbons would be incorporated, if needed, to provide some measure of water quality treatment prior to discharging to the wetland and Bass Creek.

Wet ponds and infiltration/filtration basins are proposed within the Bass Lake Road interchange that would provide treatment and rate attenuation for an area equivalent to the new impervious surface created in both drainage segments #5 and #6.

7. *Fish Lake Road Segment (SCWMC) (Appendix D, Figure G)*: There is currently no stormwater ponding in this segment. The outflows from Mn/DOT right of way would be perpetuated so the water will continue to discharge to Cedar Island Lake. Given the limited right of way and steep slopes, proposed treatment in this area may take the form of enhanced ditches that provide infiltration or filtration as well as some level of rate attenuation, proprietary hydrodynamic separators to remove larger sediment and hydrocarbons, or other best management treatment measure consistent with Mn/DOT Metro Division practices at the time of final design and construction.

Stormwater Pollution Prevention Plan (SWPPP)

Proposed mitigation measures follow the management guidelines of the watershed district and municipalities within the project area. The project will construct ponds of a size necessary for the current project and may include compensatory water quality storage to mitigate for portions of the roadway which cannot be routed into ponds.

When designed according to National Urban Runoff Program guidelines, wet detention ponds typically results in average annual suspended solids removal of 80 percent, and 50 percent removal of total phosphorus (MPCA, 2000). Infiltration/filtration practices such as bioretention basins can be expected to remove up to 85 percent of the total suspended solids when designed for filtration and up to 100 percent when designed for infiltration. Similarly, bioretention basins can be expected to remove up to 65 percent of total phosphorus when design for filtration and up to 100 percent when designed for infiltration. Final mitigation measures will be identified during final design, consistent with Mn/DOT Metro Division best management practices in place at that time.

TSS and chloride are introduced into highway runoff primarily from winter deicing practices. The amounts vary depending upon the application rates and the number of ice/snowfall events in a given year. An effective means of reducing the level of TSS and sediment-bound pollutants discharged into the receiving stream/water body is to provide sedimentation ponds and infiltration or filtration basins. Chloride impacts are typically mitigated by implementing a management program that includes appropriate housekeeping and application methods. Chloride management is addressed in Mn/DOT's Municipal Separate Storm Sewer System (MS4) Stormwater Pollution Prevention Plan and Maintenance Best Management Practices.

The majority of the project corridor falls within a well head protection zone, stretching from south of the I-394 interchange to roughly 54th Avenue. See EAW Item 13 for more information regarding the drinking water supply vulnerability assessment. During final design, Mn/DOT will coordinate with the affected Cities along the corridor to determine appropriate protection measures, such as lining the stormwater treatment basins or other spill mitigation measures.

BCWMC Education & Public Outreach Committee Meeting

January 7, 2011 – 9:00-Noon – Plymouth City Hall

Members Present: Margie Vigoren, Stu Stockhaus, Liz Thornton and Pauline Langsdorf

WMWA Workshops

We approved supporting the proposed WMWA workshops which will target planning commissioners, planning staff, city council members and citizen advisory groups. These workshops will also be open to the general public. The workshops are being designed by WMWA with the assistance of Three Rivers Park District, Hennepin County Environmental Services, and the Freshwater Society. We propose setting aside unused funds from our 2010 grant program (an additional \$2,000 is needed) to support these 2011 workshops. The workshops are:

- Workshop A – Development Practices (including infiltration) and Volume Management – March 23 (for urban communities) – March 30th (for rural communities)
- Workshop B – Nutrient Management/Retrofitting BMPs – Wednesday, May 18 for urban communities) – May 25th (for rural communities)
- Workshop C – TMDLs/Watershed Planning – September (for both urban and rural communities)

Because the workshops will be held from 5:30 p.m. to 9:00 p.m., it is proposed to charge a \$10 registration fee to cover the cost of pizza or something similar and a beverage.

Draft Education and Outreach Plan (EOP) 2011-2012 and beyond

We reviewed and made refinements to the draft EOP from our December 3rd meeting. We will review it again at our January 26th Education & Public Outreach Meeting. This draft is very close to completion.

Recommended Website Changes

The committee reviewed and approved changes to the Education section of the BCWMC website. These changes were forwarded to Amy Herbert. We continue to recommend that a website committee that is separate from the Education and Public Outreach Committee, be established to review and make recommendations regarding major website redesign.

Newspaper Article

The newspaper article we submitted for publication a year ago on the detrimental impact of salt runoff in our lakes and streams was not run by the local papers. We significantly edited this article and resubmitted it in December to the Sun newspapers. They ran it as a guest column by Geoff Nash, in several communities in their December 30, 2010 issue. We were pleased to have it in the papers but were disappointed that they didn't run the complete article as it was submitted. The newspaper edited out comments, both economic and environmental, made by a representative of a commercial plowing company who has significantly reduced the amount of salt used in the maintenance of parking lots at Ridgedale. They also edited out quotes from Golden Valley's director of street maintenance. His comments focused on changes made to their plowing equipment and plowing/road de-icing practices which resulted in maintaining safety while reducing the amount of salt used in their winter plowing.

Seeds Packets and Labels for 2011

400 seed packets for use in 2011 were ordered from Prairie Moon Nursery. Stickers were ordered from JASS which we will place on the seed packets to identify us as the provider of the seeds. The invoices for approval for both of these will be in the January BCWMC packet. These items are to be charged to the Education & Public Outreach line item of the 2010 budget.

Upcoming Meetings

- WMWA – January 11th - 8:30 a.m. – Plymouth City Hall – work will continue on planning the workshops
- BCWMC Education and Public Outreach Committee - January 26th – Plymouth City Hall, Medicine Lake Room - work will continue on the EOP



Geoff Nash, P.G.
Watershed Consulting, LLC

Administrator's Report
Bassett Creek Watershed Management Commission
January 11, 2011

1. Submitted required summary reporting information and photos to BWSR for stream bank restoration projects at Bassett Creek Main Stem- Reach 2, Golden Valley and Crystal and Plymouth Creek, Plymouth.
2. Spoke to Joel Settles, Hennepin County. County has interest in seeking additional Clean Water funds for water quality projects and wanted BCWMC to inform him of construction start dates for both current projects.
3. Publication of Education & Outreach Committee's Snow and Ice article in Sun Newspapers as Guest Columnist.
4. Sent out third and fourth questionnaires to TAC to get feedback on what issues of related to Public Education & Involvement, Water Quality, and Wetlands that need to be considered in the Next Generation Plan.
5. MN Conservancy Corp announced that BCWMC's application for Metro Blooms' installation of 30 raingardens had been awarded. Several teams of Conservancy Corp workers will perform the work. Metro Blooms' design work will begin in the spring.
6. Edited the Policy Manual with the Administrative Services Committee.
7. Attended meeting with Mike Trojan (MPCA), Karen Chandler, and Len Kremer to discuss prospective TMDL monitoring requirements.
8. Notified Caroline Amplatz and Braun Intertec that we wanted to schedule their presentation of the report commissioned by Caroline on Whole Lake Aeration of Sweeney Lake. Report and cover letter sent by Braun to DNR to request public review of the DNR's annual aeration permit granted to Dave Hanson. Caroline Amplatz's report requested that the DNR consider stopping the aeration on the grounds that it promotes harmful algae growth.
9. Received Annual Report for River Watch, a Hennepin Count Environmental Services publication supported by BCWMC that is a volunteer monitoring program. Every spring and fall students and their teachers venture into Hennepin County streams to collect important data that helps assess the overall health of the biological communities within them. Provided by Mary Karius, Henn. Co. (See packet)
10. Scheduled Brad Wosney, BWSR, to make a presentation to the Board on March 17 on new rules for Watershed Management Plans.
11. Participated in BWSR "Webinar". An online training seminar for Clean Water Fund Reporting.



Lake Vegetation Management Plan

- ☐ Variance Requested by Cooperator
☐ Variance Approved (see Section VI)

Section I: Lake Information

Name: Lost Lake DOW Number: 27010300 County: Hennepin
Fisheries Area: West Metro Surface Acres: 20 Littoral Acres: 20
Classification: ☐ Natural Environment ☐ Recreational Development ☒ General Development
Cooperator(s): Lost Lake Improvement Association, Bassetts Creek Watershed Management
Commission (BCWMC), City of Plymouth, and the MN DNR.

Section II: Water Quality and Plant Community

A. Water Quality

<input checked="" type="checkbox"/> Total Phosphorus:	Mean: 174 ppb	Date: 1997	Jun-Sept Summer Avg.
<input checked="" type="checkbox"/> Secchi Disc:	Mean: 1.1m	Date: 1997	Jun-Sept Summer Avg.
<input checked="" type="checkbox"/> chlorophyll 'a':	Mean: 101 ppb	Date: 1997	Jun-Sept Summer Avg.

Narrative (describe water quality concerns, quantify TSI):

Carlson Trophic Status for Total Phosphorus: 78

Carlson Trophic Status for Chlorophyll-a: 75

Carlson Trophic Status for Secchi Disk: 58.0

Overall Trophic Status: Hypereutrophic

Lost Lake is a Hypereutrophic lake; the water quality is poor, and has been poor since at least the early 1970's. The poor water quality may be attributed in part to historical nutrient inputs and a general lack of aquatic plants in the lake. Historically Lost lake has received a high amount of aquatic plant and algae control, this most likely has resulted in a depauperate plant community, poor water quality and a hypereutrophic state.

*****Bassett Creek Commission Comments????}

B. Plant Community:

Narrative (describe plant community, list common, rare, or other important aquatic plant species, list plant surveys): Aquatic plants are valuable for a number of ecological and biological functions including, stabilizing bottom sediments and shorelines, providing shelter for a variety of game and non-game fish and aquatic insects, and providing food for waterfowl and other wading birds and mammals.

The Bassetts Creek Watershed Management Commission (BCWMC) contracted Barr Engineering to conduct a plant survey 1997. In 1997 the plant community was non existant, the lake was and continues to be dominated by algal blooms as idicated by historicaly poor secchi disc readings and high levels of nutrients in the lake. In 2010 The MN DNR conducted two point intercept aquaquatic plant survys, one in early July and the other in late August. Canada Waterweed



Lake Vegetation Management Plan

was the most abundant plant found in the lake and was documented at 73% of the sites in July but only 11% in August. The 2010 plant survey noted curly-leaf pondweed (CLP) was found at 6 sites at a frequency of 5% in June and was not found at all in the August survey, 27% of the sites were devoid of aquatic plants in the July survey. In the August survey, 88% of the sites contained no aquatic plants.

Currently, Lost Lake has few native aquatic plants and a low occurrence of invasive plants (CLP). Implementation strategies outlined in this plan will help to increase native aquatic plant populations and continue the trend of decline of non-native plants in Lost Lake. Strategies will also include built-in flexibility, to address management/control of invasive species if they become a problem in the future.

Summary of Plant Surveys from 2010 (percent frequency):

Taxa	July 2010	Aug 2010
Canada Waterweed	73.0%	11.0%
Muskgrass	2.0%	0.0%
Curlyleaf Pondweed	5.0%	0.0%
Narrow leaf pondweed grp	2.0%	0.0%
No Plants	27%	88.0%

Section III: Public Input Process (narrative):

Letters were sent to the Lost Lake Improvement Association, City of Plymouth, State Representatives and Senators and Bassett's Creek Watershed Management Commission (BCWMC), explaining that the clause allowing Lost Lake to chemically treat a greater percentage of aquatic plants within the littoral area than in the rest of the lakes in Minnesota is set to expire by April 15, 2014. Before this clause expires, Minnesota DNR is required to create a lake vegetation management plan (LVMP) to identify aquatic plant management issues in Lost Lake and develop a specific plan to address the issues, if needed. The MN DNR is partnering with the Lost Lake Improvement Association, (BCWMC), and the City of Plymouth to create this lake vegetation management plan (LVMP) for Lost Lake.

DNR representatives met with the Lost Lake Improvement Association board, BCWMC and the city of Plymouth on November 22, 2010 and on January 5, 2011 to discuss the issues with the development and implementation of the LVMP and what the potential affects may be for the lakeshore owners. From the discussion there were two main goals identified. The first was to maintain/improve the ability to paddle and boat on the lake and the second was to reclaim the ability to swim in the lake. Lost Lake's water quality is poor and all parties recognize the need to improve the water quality. It was also noted during the meetings that it will be important to build flexibility into the plan to be able to address invasive species if they become a problem in the future.



Lake Vegetation Management Plan

A committee is set to meet to discuss and review the drafts of the LVMP. Once the Draft LVMP is developed, a public notice will be posted in the local paper, a public meeting will be held, and then a 30 day public comment period will be provided.

*****{This area will be filled in with more detail as it happens}

The Lost Lake Improvement Association recognizes that they will be responsible for organizing permit requests for treatment; obtaining permission from landowners for near shore property management (areas less than 150 feet from shore); ensuring that water quality and plant community monitoring is done in accordance with DNR guidelines (if required); and reports of annual activities and ongoing monitoring results are submitted.

Section IV: Problems to be Addressed in this Plan (narrative):

The Minnesota Department of Natural Resources (DNR) revised the aquatic plant management (APM) rules on April 15, 2009 (MN Rule 6280). The clause within the revised rule allowing Lost Lake to chemically treat a greater percentage of littoral area than the rest of the lakes in Minnesota is set to expire by April 15, 2014. The DNR is required to develop a lake vegetation management plan (LVMP) for Lost Lake before the clause expires. This LVMP will serve as a guide for the management of aquatic plants in Lost Lake. The LVMP is a document the DNR develops in partnership with the public to address aquatic plant issues on a lake resulting in a targeted management plan to address those issues. The problems addressed in this LVMP include: maintaining/improving the recreational activities of swimming and boating and improving water quality, as well. Ensuring plan flexibility so invasive species management can be address if they become a problem in the future.

Section V: Goals for Management of Aquatic Plants (narrative, include a description of efforts to protect rare features):

There are four goals to be addressed in this lake vegetation management plan to ensure the indentified problems are addressed:

- 1) Identify strategies to enhance recreational use of the lake (i.e. Swimming and boating etc...)
- 2) Increase abundance and distribution of native submersed aquatic plants throughout the growing season.
- 3) Improve water quality.
- 4) Build in flexibility to address invasive aquatic plants like Eurasian Watermilfoil (EWM) and CLP if they become a problem.

* The Lost Lake Improvement Association is encouraged to actively pursue partnerships and potential grant opportunities to restore the vegetative buffer around Lost Lake. The DNR is supportive of this endeavor and encourages the Lake Improvement Association on this potential action. The DNR also encourages the Lake Association to pursue cost share and grant programs such as the MN DNR Shoreland Restoration Grants to achieve this outcome.

*****Bassett Creek Comments????



Lake Vegetation Management Plan



Lake Vegetation Management Plan

Section VI: Treatment Plan (map marked with areas where control of plants is anticipated):

A. Commons Area (>150' from shore)

☒ Mechanical Control: Maximum total treatment acres 10 acres to be treated, 50 % of littoral area

Narrative: Guidelines for aquatic plant management are described in MN rule 6280. Mechanical control of aquatic plants is allowed up to 50% of the littoral area. The cumulative amount of mechanical and chemical aquatic plant control may not exceed 50% of the littoral area. Currently, mechanical treatment is not anticipated

☒ Herbicide Control: Maximum total acreage allowed with chemical treatment is 5 acres to be treated, 25 % of littoral area

Product(s): Endothall (such as Aquathol K or Aquathol Super K) for curlyleaf pondweed (CLP). Any MN Dept of Agriculture approved aquatic herbicides for nuisance control of aquatic plants.

Rate of Application: Endothall: 0.75 -1.0 ppm for Curly Leaf pondweed control, and approved herbicide label rates for nuisance control of aquatic plants.

Timing of Application: Early spring between the temperatures of 50-60 degrees F for Curly Leaf pondweed control, to reduce damage to native plants and to prevent turion development.

Narrative: Aquatic plants are valuable for a number of ecological and biological functions including utilizing nutrients that would otherwise be available to algae, stabilizing bottom sediments and shorelines, providing shelter for a variety of game and non-game fish and aquatic insects, and providing food for waterfowl and other wading birds. There is evidence that removal of submersed aquatic plant through the use of herbicide can harm lakes (such as reductions in populations of vegetation-dependent fish, removal of nursery habitat for fish, removal of habitat for invertebrates (food source for waterfowl and fish), and reductions in water quality). Cumulative loss of aquatic plants (especially when coupled with nutrient loading) can lead to drastic ecological changes in lakes causing the lake to have low water clarity, become algae dominated with little to no rooted aquatic plants, and shift to disturbance-tolerant fish species such as bullhead, carp and fathead minnows (Engle 1990; Wilcox and Meeker 1992; Scheffer and Carpenter 2003; Egertson and Downing 2004, Herwig et al 2004).

Pesticide control of aquatic plants in public water may not exceed 15% of the littoral area, except that on waters that are 20 acres and less (i.e. Lost lake; MN Rule 6280.0450 Subp.4A), pesticide control may be permitted on up to five acres or one-half the surface area, whichever is less. This is a level of plant control the DNR has confidence in that will allow riparian owners access to the lake while maintaining the basic functions and benefits that aquatic plants provide. Most lakes never reach the State wide 15% limit (i.e. for lakes 20 acres and larger per MN 6280.0450 Subp.4A) using chemicals to control aquatic plants. A variance is required to remove



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more than five acres or 25% of the littoral area in Lost Lake, and monitoring of the plant community and the water quality is required to ensure that cumulative impacts of aquatic plant removal are not resulting in harm to the lake.

One of the situations the DNR considers issuing a variance to the 15% limit is for the selective control of invasive species to enhance ecological and recreational benefits. Currently, invasive species (Curly leaf pondweed) do not make up a significant proportion of the plant community in Lost Lake and are not ecological or recreational nuisance within the lake at this time. If invasive species become an ecological or recreational problem, this LVMP may be amended to include a DNR approved treatment regime. There are no treatment regimes that are 100% selective for invasive species. However, there are some treatment regimes that are more selective using low dose, targeted herbicides, and timing of treatment to reduce the impacts to native plants. The above information on herbicides, timing, and target concentration are the current understanding of "selective control" for CLP and EWM. Selective control of invasive species is an evolving science and the treatment protocol may change as new information becomes available.

☐ Other: acres to be treated, % of littoral area

Narrative:

B. Individual Permit Standards (new permits)

Chemical Treatment of Submerged Vegetation: individual shorelines may be allowed to treat up to 100 feet or half the property's shoreline whichever is less except for properties that have less than 70 feet of shoreline may treat up to 35 feet along shore 100 feet lakeward

Narrative: Permit requests are subject to inspection and the aforementioned limits are maximums allowed for native species control. Selective control of invasive submerged aquatic plant species may be allowed to treat up to the entire frontage of the shoreline given that the stand of invasive species is nearly a monoculture, very dense and matted, and there are not native species present that would be affected by the "selective treatment".

Permit standards for individual shorelines are in place to ensure each shoreline retains some aquatic habitat. Near-shore habitat, which are the most frequent targets for control efforts by shoreline property owners, are particularly important for water quality improvement and maintenance and as habitat for young or small fish, and have the greatest diversity of non-game fish and amphibians (Poe et al. 1986; Bryan and Scarnecchia 1992; Weaver et al. 1992). Many species of mammals and waterfowl depend on these aquatic plants for food and nesting sites and are especially important for laying females whose reproductive success is closely tied to the availability of aquatic plants (Krull 1970; Bellrose 1976; Batt et al. 1992: 7-9). Development is increasing on lakes (particularly in the metro area) and entire reaches of near-shore habitat have been impacted through development. Having restrictions on the amount of shoreline individual properties can treat, allows each property owner to have access to the lake while retaining some of the near-shore habitat that is so critical for fish and wildlife and water quality. These



Lake Vegetation Management Plan

restrictions also allow for an equitable distribution of aquatic plant management activities among all riparian property owners while mitigating negative cumulative impacts on the lake as a whole.

Treatment of Emergent Vegetation: feet along shore to open water

Narrative: Individuals who would like to remove emergent vegetation to maintain access to open water may apply for a permit to keep the the current level and amount of cattails. The neccessity of removal to create an access channel will be assessed by the DNR before a permit is issued.

Other Treatment - : feet along shore feet lakeward

Narrative:

Section VII: Funding [check all that apply]

- ☒ Lake Association
- ☐ DNR Grant
- ☐ Lake Improvement District (LID)
- ☐ Conservation District
- ☐ Other (please describe) _____



Lake Vegetation Management Plan

Section VIII: The commissioner may issue APM permits with a variance from one or more of the provisions of parts 6280.0250, subpart 4, and 6280.0350, except that no variance may be issued for part 6280.0250, subpart 4, items B and C. Variances may be issued to control invasive aquatic plants, protect or improve aquatic resources, provide riparian access, or enhance recreational use on public waters (6280.1000, subpart 1). Variance(s) and Justification(s) [check all that apply]

- ☐ Application of pesticides to control submerged vegetation in more than 15 percent of the littoral area (M.R. 6280.0350, Subp. 4, A). (list justification below)
- ☐ Application of pesticides to control aquatic macrophytes in natural environment lakes established pursuant to part 6120.3000 (M.R. 6280.0250, Subp. 4, E.). (list justification below)
- ☐ Mechanical control of aquatic macrophytes in more than 50 percent of the littoral area (M.R. 6280.0350, Subp. 3, B). (list justification below)
- ☐ Other (please explain)

Justifications (identify which variance and provide the rational for all items checked above):

A variance has not been issued at this time for Lost Lake. However, if invasive species become an ecological and recreational problem, the DNR and the cooperators will evaluate the conditions of the lake to determine the best course of action. This LVMP may be amended at that time to include a variance and a DNR approved treatment regime to target the invasive species if that is the agreed upon course of action. If a variance is issued then monitoring would be required to ensure that the treatments are having the desired affect and that the treatment regime is not doing more harm to the lake then good. Required monitoring would be for water quality, invasive species, and native aquatic vegetation as described below.

-
- ☐ Variance approved without condition(s)
 - ☐ Variance approved with following conditions(s):

- ☐ Pretreatment data collection

Narrative: pre-treatment data would include a pre-treatment point intercept inventory of the aquatic plant community and water quality data to serve as baseline data to compare the effectiveness of the treatment regime and to determine the impacts on the lake.

- ☐ Post treatment data collection

Narrative: At least one point-intercept survey will occur annually during the peak growth of native vegetation (late June through August). It will be the responsibility of the lake association to make sure a point intercept is conducted. Again, reliable water quality data must also be collected throughout the season. The survey reports and water quality data



Lake Vegetation Management Plan

must be provided to the DNR, by the lake association, and other interested parties upon completion or by the fall of each year.

☐ **Evaluation**

Narrative: The DNR, in conjunction with other interested parties, will review the point-intercept survey(s) and water quality results annually. If the point-intercept surveys or water quality data reveal that the herbicide treatments appear to be doing more harm than good, treatments may be ceased at the discretion of the DNR. Examples of reasons to stop treatments include, but are not limited to, notable decreases in water quality and obvious decreases in native vegetation. If treatments are ceased, the DNR will work with the association to develop an alternative management strategy.

☐ **Other:**

Narrative:



Lake Vegetation Management Plan

Section IX: Signatures

This Lake Vegetation Management Plan is in effect for 5 years from date of Regional Fisheries approval. If the plan is not renewed then permits will be issued according to standards listed MR 6280.

DNR Approval

Submitted By: _____

Title: _____

Date: _____

_____	_____
Area Fisheries Supervisor	Date
_____	_____
Regional Fisheries Approval	Date
_____	_____
Regional Ecological Resources Approval	Date

I affirm that I am an authorized representative of Lost Lake Improvement Association and acknowledge participation in the development and implementation of this lake vegetation management plan.

_____	_____
Cooperator's Signature and Title	Date

Either party may terminate participation in this plan at any time, with or without cause, upon 30 days' written notice to the other party. If participation is terminated, permits will be issued according to standards listed MR 6280.



Lake Vegetation Management Plan

Glossary of Terms:

Lake Vegetation Management Plan (LVMP): An LVMP is a document the DNR develops with public input to address aquatic plant issues on a lake. It seeks to balance riparian property owners' interest in use of shoreland and access to the lake with the preservation of aquatic plants, which are important to a lake's ecological health.

Total Phosphorus: The measure of the total concentration of phosphorus present in a water sample. Phosphorus is typically the nutrient that limits aquatic plant and algae growth in freshwater lakes and enters a lake through both point-source and nonpoint-sources.

Secchi Disc: A circular disc used to measure water transparency in lakes. The disc is slowly lowered into the water and the depth at which it is no longer visible is recorded as the Secchi Depth and is an indicator of water clarity.

Chlorophyll 'a': The measure of primary productivity, the rate at which light energy is incorporated into plant cells. Chlorophyll is responsible for the green color of plants and leaves.

Mesotrophic Lake: A lake with an intermediate level of productivity. Located on the continuum between low productivity oligotrophic lakes and high productivity eutrophic or hyper-eutrophic lakes. These lakes typically have clear water and moderate levels of submerged aquatic plants.

Transect Survey: A sample methodology in which lines perpendicular to shore are sampled from the shoreline lakeward. Multiple transects located around the lake are used to give an indication of plant species present.

Point-Intercept Survey: A sample methodology in which a grid of evenly spaced points is overlaid over the lake and a sample is taken at each point to determine presence of aquatic plant species.

Littoral Area: The surface area of a body of water where the depth is 15 feet or less. This is the area of the lake where submerged aquatic plants grow.



RIVER WATCH

2010

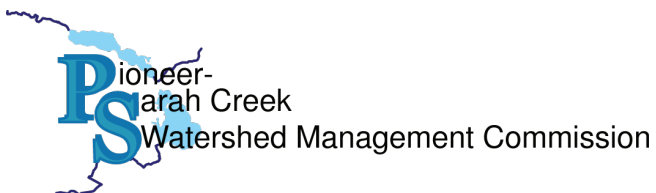




For more information about the Hennepin County River Watch program, please contact:
Mary Karius
Hennepin County Environmental Services
417 N. 5th Street, Suite 200
Minneapolis, MN 55401
612-596-9129



River Watch is a program of Hennepin County Environmental Services sponsored by:



Since 1995, the River Watch Volunteer Monitoring Program has provided hands-on environmental education opportunities for students throughout Hennepin County. Every spring and fall students and their teachers venture into Hennepin County streams to collect important data that helps assess the overall health of the biological communities within them. With waders securely fastened and dip nets in hand, students all over the county monitor for aquatic bugs. It's an eye-opening experience for everyone, and the resulting data helps us to understand the health of the stream. Thanks to everyone who participated this year!



MONITORING GROUPS

School	Site	Teacher	Since
Benilde St. Margaret St. Louis Park	Minnehaha Creek #11	John Porisch	1998
Blake School Minneapolis	Bassett Creek GM site	Dan Trockman	2007
Carondelet Minneapolis	Minnehaha Creek #25	Cece Cope	2004
Cooper High School Robbinsdale	Bassett Creek #13	Jon Ong	1999
Highview Alternative School Crystal	Shingle Creek #27	Dustin Dobitz	2007
Hopkins High School Hopkins	Minnehaha Creek #9, #19 Bremer Bank site	Tom Nelson John Sammler	2007 2008
Kaleidoscope Charter School Rogers	Rush Creek #4	Paula Nelson	2005
Minnesota Transition Charter School Minneapolis	Minnehaha Creek #32	Wendy Anderson	2005
Park Center High School Brooklyn Park	Shingle Creek #10	Cindy Jahnke	1996
Patrick Henry High School Minneapolis	Shingle Creek #28	Charlene Ellingson	2008
Saint Louis Park High School	Minnehaha @ Louisiana Avenue Canoe Landing	Al Wachutka	2008
South High School Minneapolis	Mattson Brook #20	Cindy Ward Staci Marshall	2007
St. Michael – Albertville High School	Crow River #23	Kay Nowell	2004
Washburn High School Minneapolis	Minnehaha Creek #14	Bill Holden	1997
Wayzata High School	Elm Creek #17	Susie Newman	2006
West Lutheran High School Plymouth	Crow River #12 Pioneer Creek#24	Steve Merten	1999

Hennepin County Stream Evaluations

Stream Grading Scale					
Family Biotic Index	Grade	EPT	Grade	Number of Families	Grade
0.00 – 4.00	A	9-12	A	12 - 15	A
4.01 – 5.75	B	6.0 - 8.9	B	9.1 - 11.9	B
5.76 – 6.50	C	3 - 5.9	C	6 - 9	C
> 6.50	D	< 3	D	< 6	D

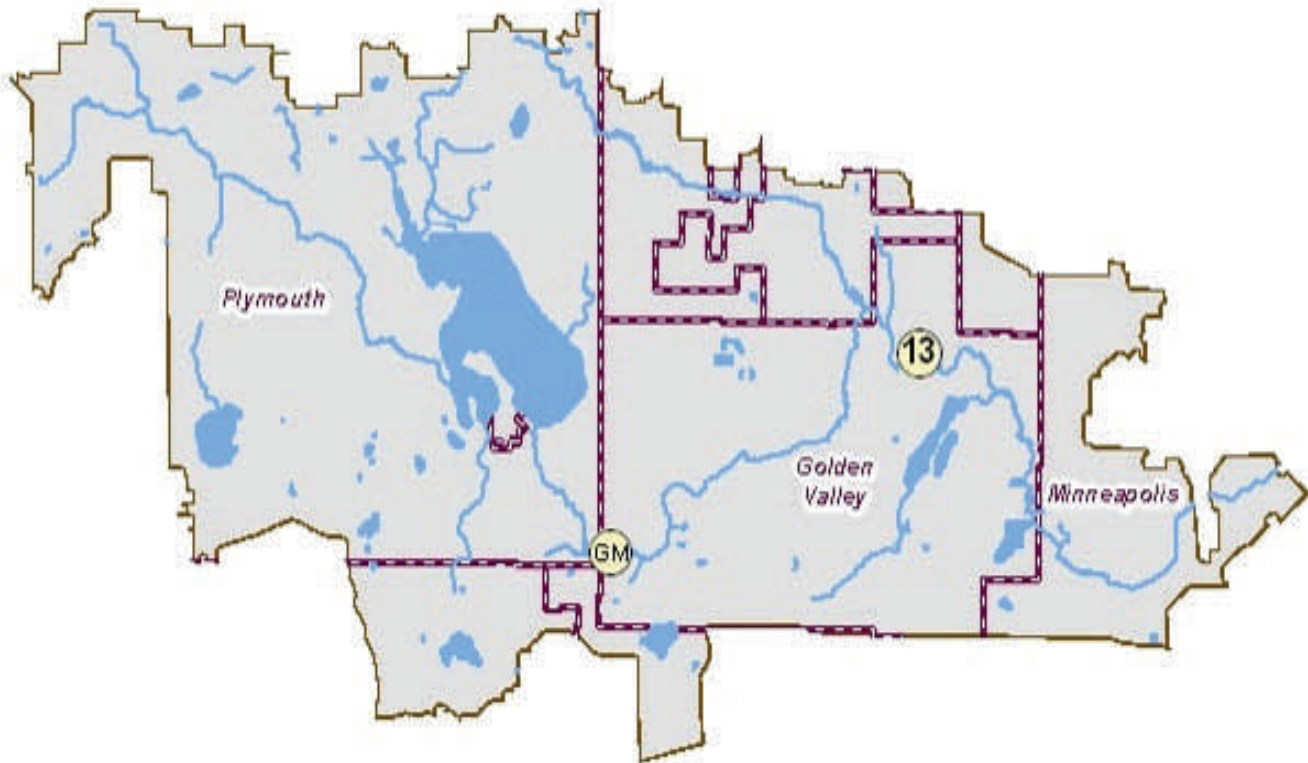
Letter Grading Scale	
3.83 - 4.00	A
3.50 - 3.82	A-
3.17 - 3.49	B+
2.83 - 3.16	B
2.50 - 2.82	B-
2.17 - 2.49	C+
1.83 - 2.16	C
1.50 - 1.82	C-
1.17 - 1.49	D+
0.83 - 1.16	D
0.50 - 0.82	D-
0.00 - 0.49	F

The grading scale used in River Watch takes into account three major biotic indices used routinely in biological monitoring programs. The first component is the Family Biotic Index which measures the overall community of invertebrates and their tolerance to pollution levels. The scale ranges from 0 to 10 with the lower values indicating high sensitivity and good water quality if present.

EPT stands for Ephemeroptera, Plecoptera, and Trichoptera or mayflies, stoneflies, and caddisflies. These three families include the most sensitive individuals and is looked at for indications of presence or absence. Higher scores indicate better water quality.

Finally, number of families measures the overall abundance of families or total diversity of family units. Again, with this index, the higher the number the better.

Bassett Creek

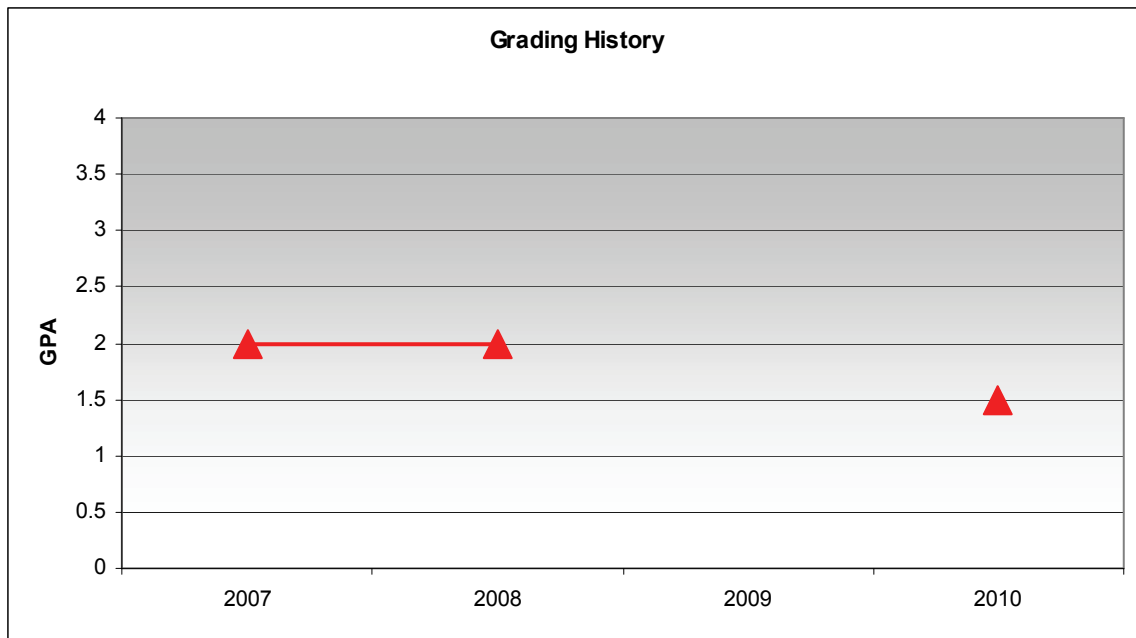


Bassett Creek meanders eastward from Medicine Lake in Plymouth through Golden Valley until entering the Mississippi River in downtown Minneapolis. The Bassett Creek watershed covers more than 40 square acres and encompasses the cities of Plymouth, New Hope, Crystal, Robbinsdale, Minnetonka, St. Louis Park, Golden Valley, and Minneapolis.

Bassett Creek: General Mills (GM) Site

Golden Valley

The Bassett Creek General Mills Natural Area is located in the Golden Valley park system near the crossroads of Betty Crocker Drive and Boone Avenue. Dan Trockman has been bringing his Environmental Science class from the Blake School to sample here since 2007. The site was too dry to collect invertebrates in 2009. It was sampled in the spring of 2010.

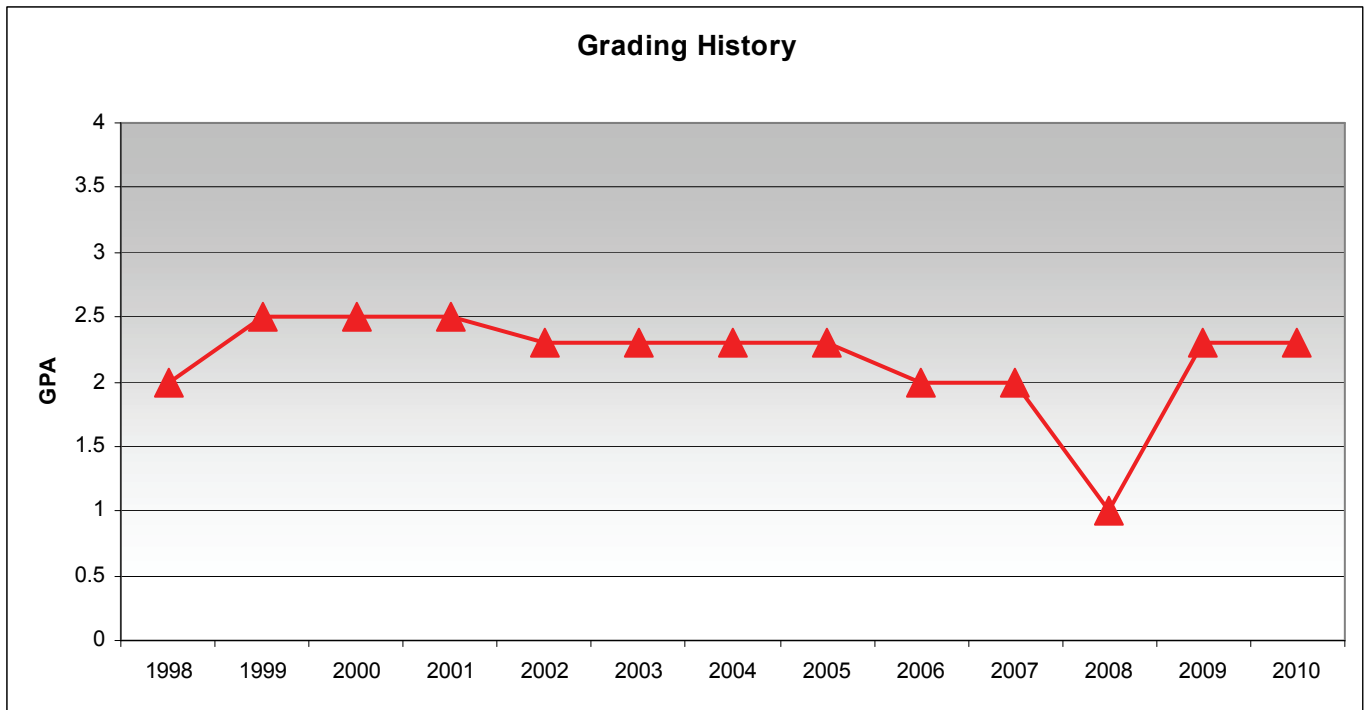


Bassett Creek Site GM Grading History	
Year	Grade
2010	D+
2009	No data
2008	C
2007	C

Average grade
4 years = 1.77

C-

Bassett Creek Site #13



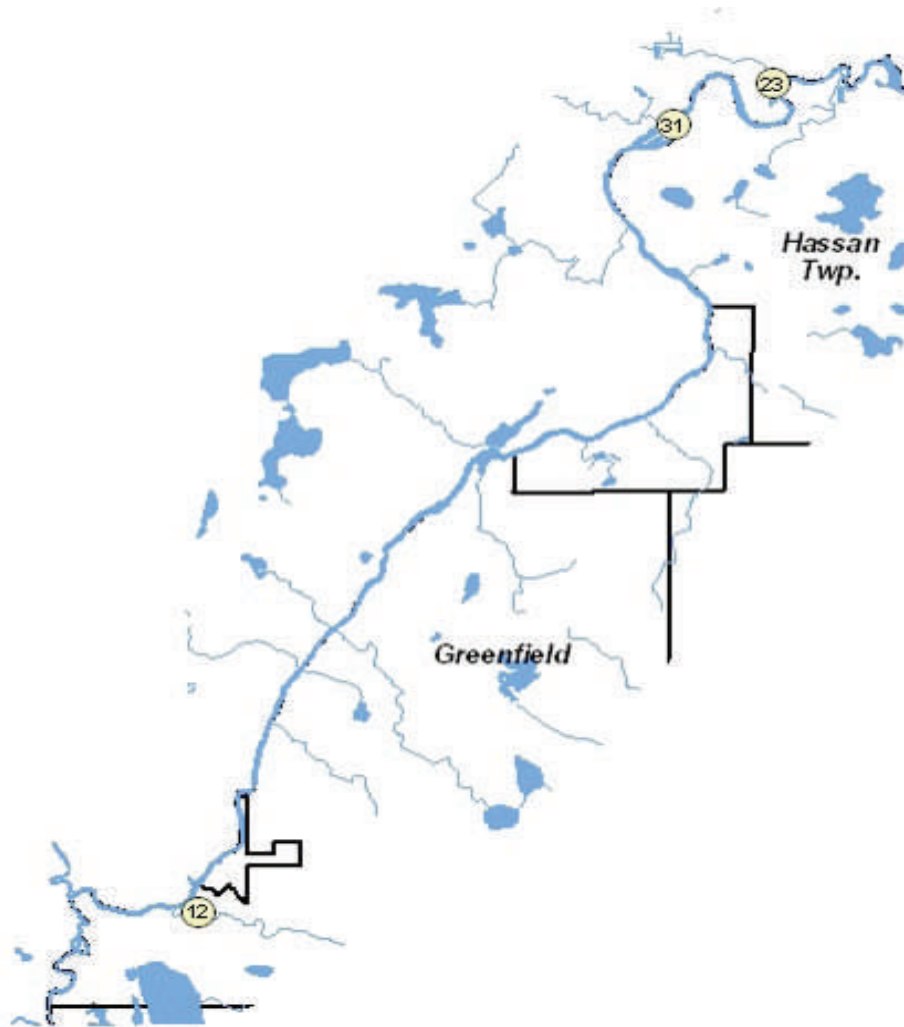
Bassett Creek Site #13 Grading History	
Year	Grade
2010	C+
2009	C+
2008	D
2007	C
2006	C
2005	C+
2004	B-
2003	C+
2002	C+
2001	C+
2000	B-
1999	B-
1998	C

Average grade
13 years = 2.3

C+

Bassett Creek Site #13 is located off of Noble Avenue North. Jon Ong and his students from Cooper High School have been sampling this site since 1999. It is one of the longest data records in the River Watch program. This site was sampled in April and October of 2010.

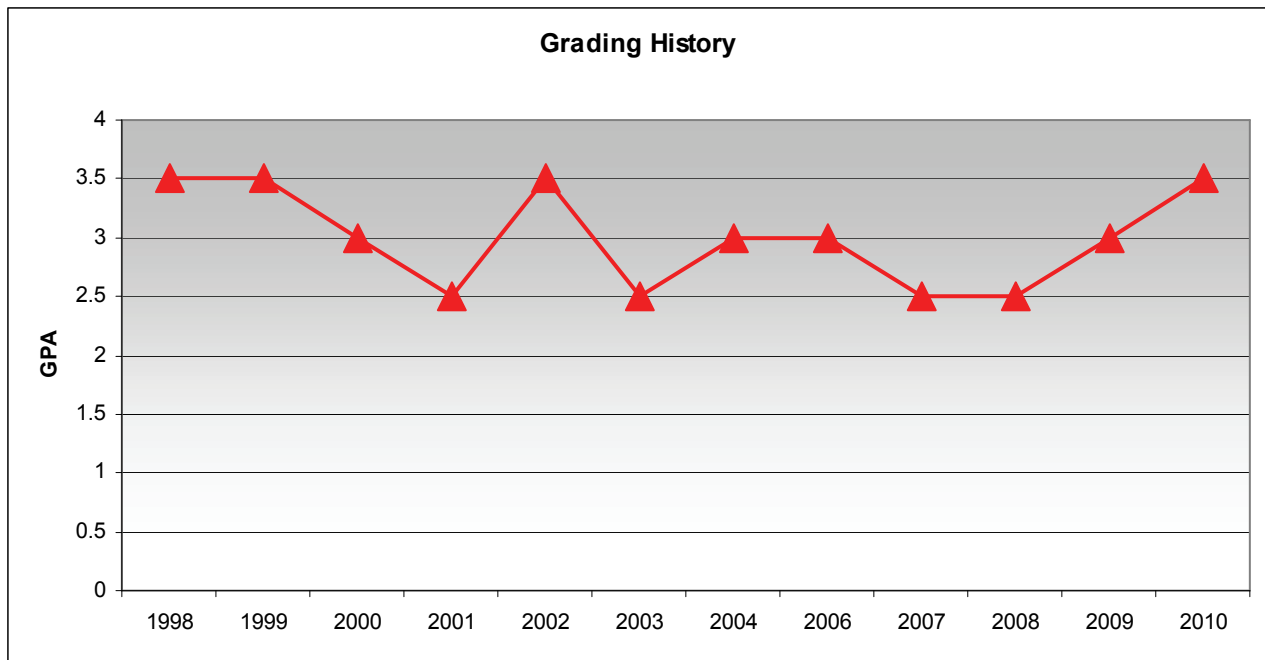
Crow River



The North Fork Crow and South Fork Crow converge in Rockford to become the Crow River, a tributary of the Mississippi River. From Rockford, the Crow River flows northeastward until it meets the Mississippi River between the towns of Otsego and Dayton. The river's course is used to define the boundary between Wright and Hennepin Counties. The Crow River continues to be known for invertebrate families that are not found in any of the other River Watch sites in Hennepin County. The highly sensitive stonefly is routinely found in Crow River samples. In 2010, several families of mayflies and stoneflies were collected including: Baetidae, Baetiscidae, Ephemeridae, Heptageniidae, Potomantidae, Tricorythidae, Capniidae, Perlodidae, and Pteronarcyidae.

Crow River Site #12

Rockford



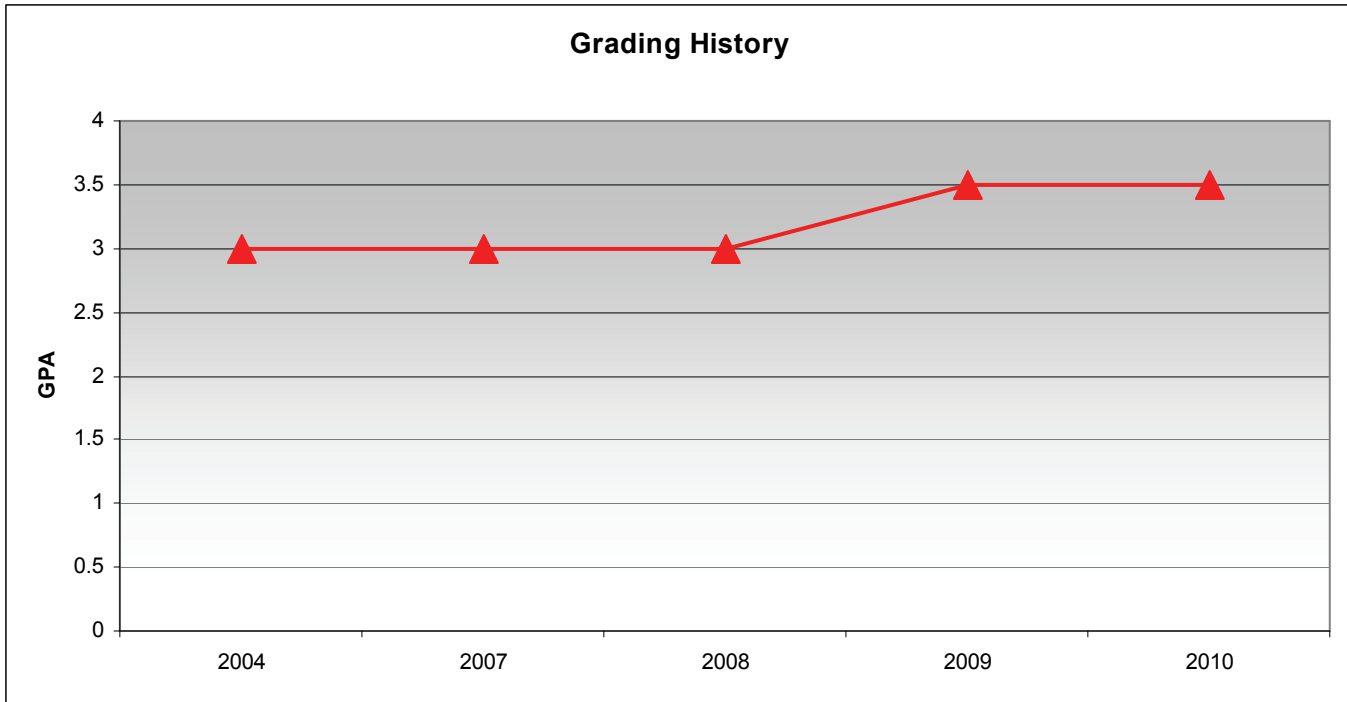
Crow River Site #12 Grading History	
Year	Grade
2010	B+
2009	B
2008	B-
2007	B-
2006	B
2004	B
2003	B-
2002	B+
2001	B-
2000	B
1999	B+
1998	A-
1997	B-
1996	A-

Average grade
14 years = 3.14

B

Crow River #12 is located off of Highway 55, in Rockford, downstream of Lake Rebecca Park. This site has been monitored since 1996, and was sampled in the spring of 2010. The water was too high and dangerous to sample in the fall. Steve Merten and his students have been sampling this site since 1999. This site often shows the best water quality of all the Hennepin County River Watch sites.

Crow River Site #31
Crow-Hassan Park Preserve



Crow River Site #31 Grading History	
Year	Grade
2010	B+
2009	B+
2008	B
2007	B
2004	B

Average grade
5 years = 3.35

B+

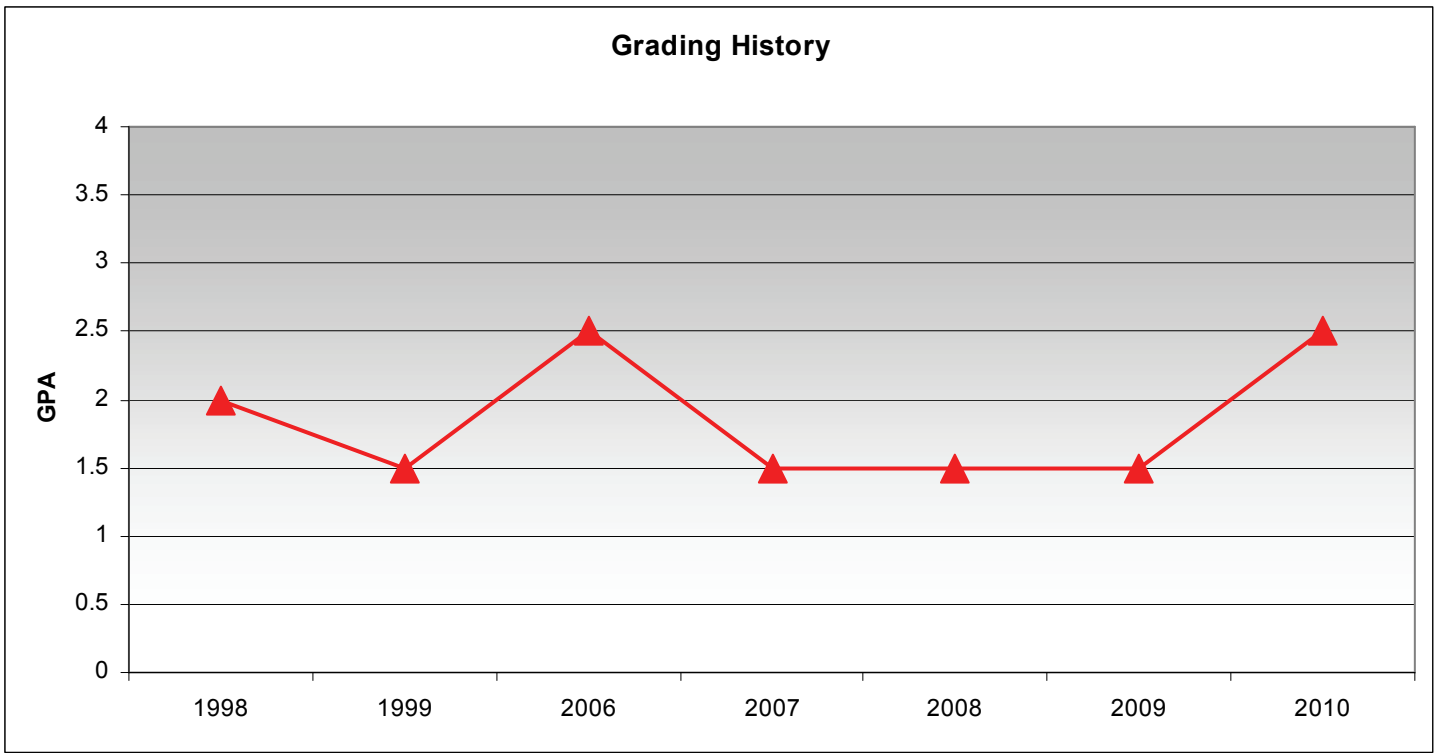
The Crow River Site #31 is located in St. Michael on the opposite bank of the Crow-Hassan Park Reserve. The site is accessed at the St. Michael Wastewater Treatment plant. Kay Nowell and her students from St. Michael-Albertville High School have been monitoring this site since 2004. The site was sampled in May and September of 2010.

Elm Creek



Elm Creek flows from its headwaters in Medina northward until it enters the Mississippi River in Champlin. The Elm Creek Watershed drains 83,600 acres, in northern Hennepin County, from Elm Creek, Rush Creek, and Diamond Creek.

Elm Creek Site #17 Peony Lane



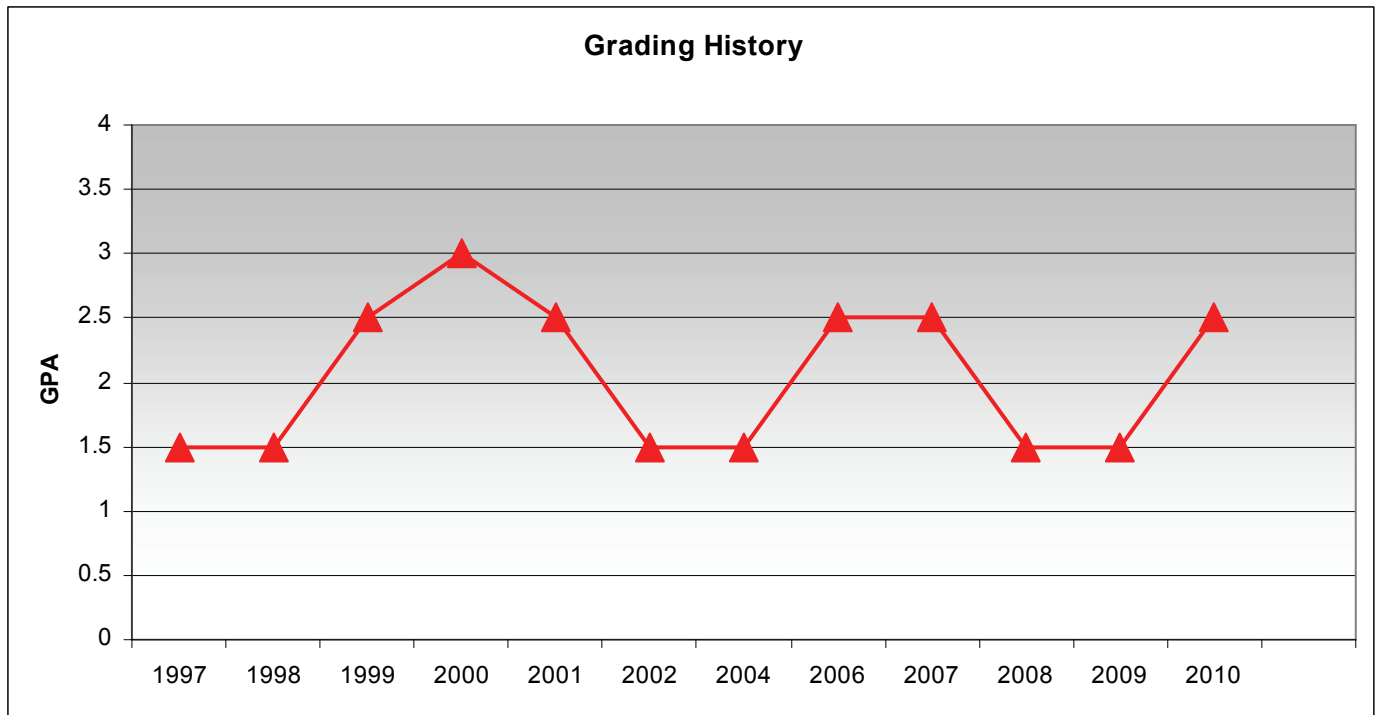
Elm Creek Site #17 Grading History	
Year	Grade
2010	C+
2009	C-
2008	C-
2007	D+
2006	C+
1999	C-
1998	C

Average grade
7 years = 2.22

C+

Elm Creek #17 is located near the crossing of Elm Creek and Peony Lane, on the Wayzata High School campus. Susie Newman has been sampling this site with her Environmental Studies class since 2006. The stream was sampled in May and September of 2010.

Rush Creek Site #4 Maple Grove



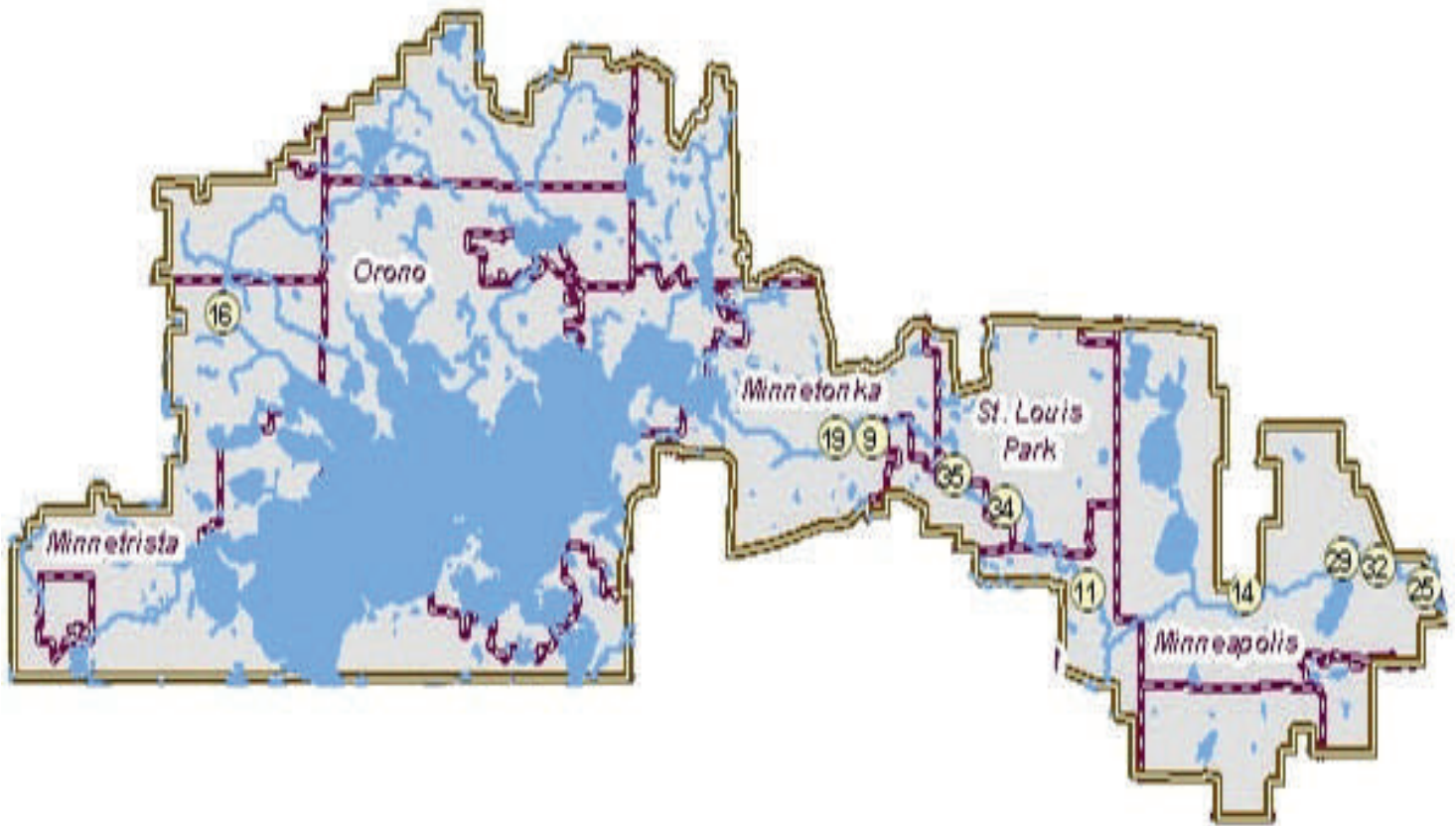
Rush Creek Site #4 Grading History	
Year	Grade
2010	C+
2009	D+
2008	D+
2007	C+
2006	C+
2004	C-
2002	C-
2001	B-
2000	B
1999	C+
1998	D+
1997	D+

Average grade
12 years = 2.015

C

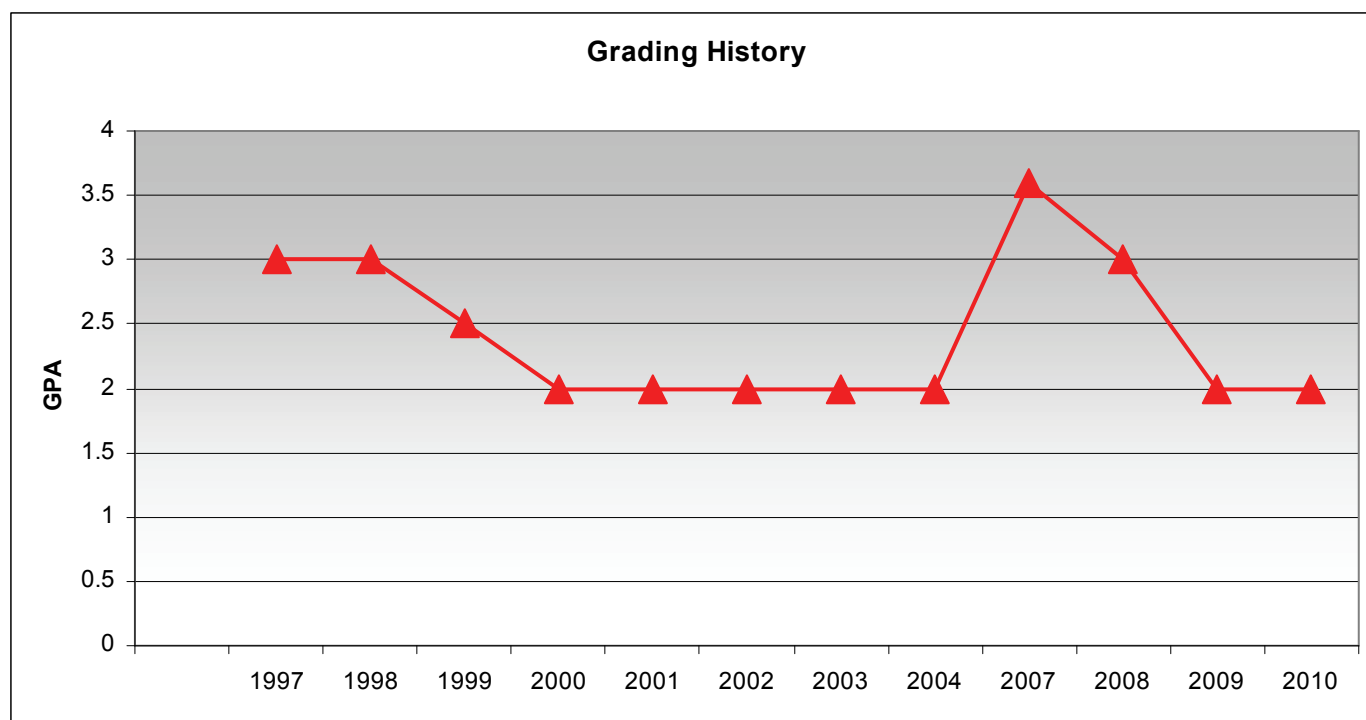
Rush Creek is a tributary of Elm Creek. Rush Creek #4 is located near the intersection of 101st Avenue North and Lawndale Lane North in Maple Grove. The site is within a grazed pasture land. Cattle are often present in or near the stream. Paula Higgins has been sampling this site with her students from Kaleidoscope Charter School since 2006. They successfully sample every spring and fall.

Minnehaha Creek



Minnehaha Creek extends from Lake Minnetonka and meanders eastward 22 miles until it merges with the Mississippi River in South Minneapolis, just below Minnehaha Falls. The creek's watershed is 181 square miles (including Lake Minnetonka). Minnehaha Creek has been monitored as part of River Watch since 1996. Since then, more than twelve sites have been monitored along the stream. Some of the same schools and teachers have been participating since then, as well.

Minnehaha Creek Site #19 Burwell Park, Minnetonka



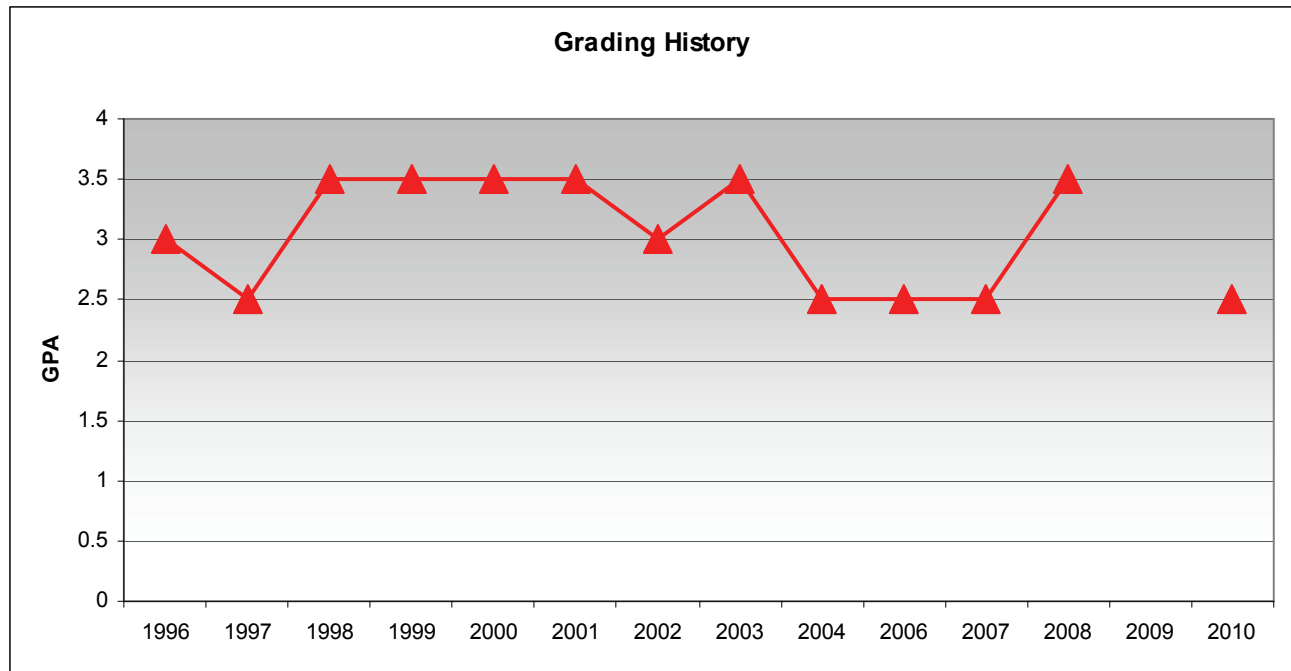
Minnehaha Creek Site #19 Grading History	
Year	Grade
2010	C
2009	C
2008	B
2007	A-
2004	C
2003	C
2002	C
2001	C
2000	C+
1999	B
1998	B

Average grade
11 years = 1.95

C

Minnehaha Creek #19 is located on the grounds of the historic Burwell House. The bed of the stream along this stretch of Minnehaha Creek is highly cobbled and offers an excellent sampling site for students to examine the biology of a stream. John Sammler brings his class from Hopkins High School to monitor this site most years in both the spring and fall.

Minnehaha Creek Site #9 Minnetonka



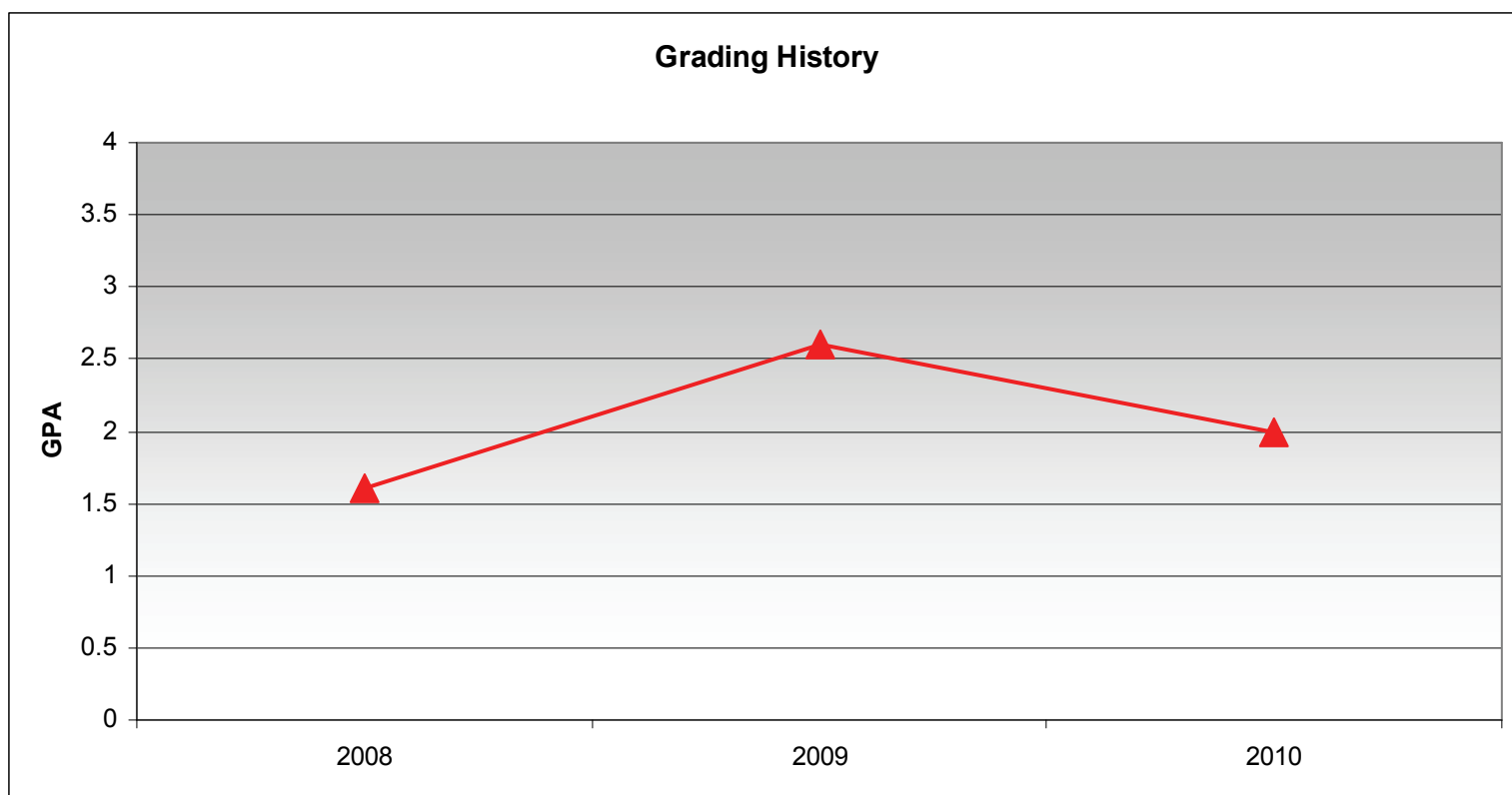
Minnehaha Creek Site #9 Grading History	
Year	Grade
2010	C-
2009	No data
2008	B+
2007	C-
2006	B-
2004	C-
2003	B+
2002	B
2001	B+
2000	B+
1999	B+
1998	B+
1997	B-
1996	B

Average grade
13 years = 2.27

C+

Minnehaha Creek #9 is located in a small park near the intersection of Hopkins Crossroad and Minnetonka Blvd in Minnetonka. Tom Nelson from Hopkins High School has been recently monitoring this site. There is no data for 2009.

Minnehaha Creek: Bremer Bank Site St. Louis Park



Minnehaha Creek: Bremer Bank Site Grading History	
Year	Grade
2010	C
2009	C+
2008	C-

Average grade
3 years = 1.905

C

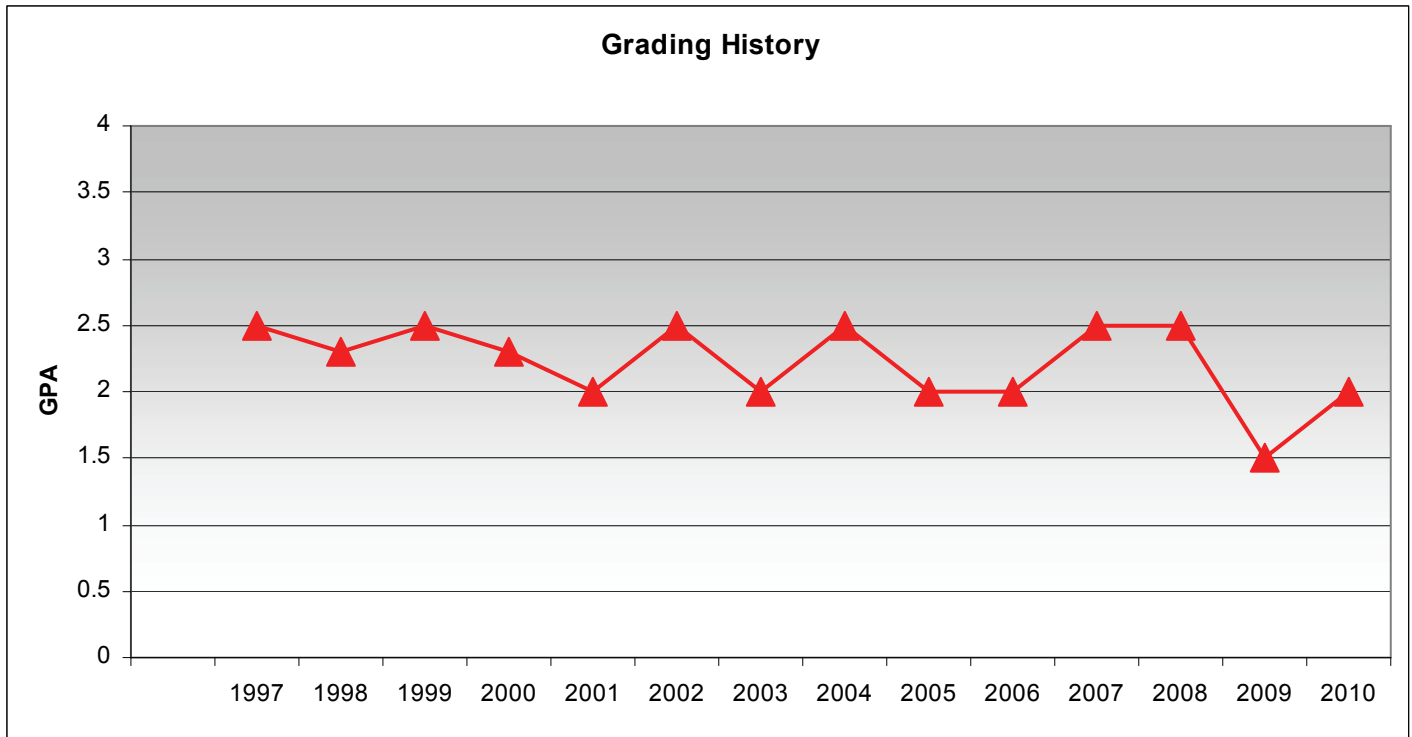
The Minnehaha Creek Site @ Bremer Bank is located at a canoe landing in the vicinity of the Knollwood Shopping Center on Highway 7 in St. Louis Park. This site is a particularly good site to see the effects of heavy silt and sand deposits. Walking and sampling is difficult in this stretch of the creek. John Sammler and his students have been sampling this site since 2008.

Minnehaha Creek: Creekside Park St. Louis Park



Minnehaha Creek @ Creekside Park in St. Louis Park was a new collection site in 2008. It is located near the intersection of Highway 7 and Louisiana Avenue in St. Louis Park. Al Wachutka and his students from St. Louis Park High School have sampled this site the past three years. In 2008, the class ran out of time to process the samples. The site was sampled again in the fall of 2009, but the data results were unavailable. In 2010, the collection total was low and the data was not used.

Minnehaha Creek Site #11 Edina



Minnehaha Creek Site #11 Grading History	
Year	Grade
2010	C
2009	D+
2008	B-
2007	B-
2006	C
2005	C
2004	B-
2003	C
2002	B-
2001	C
2000	C+
1999	B-
1998	C+
1997	B-

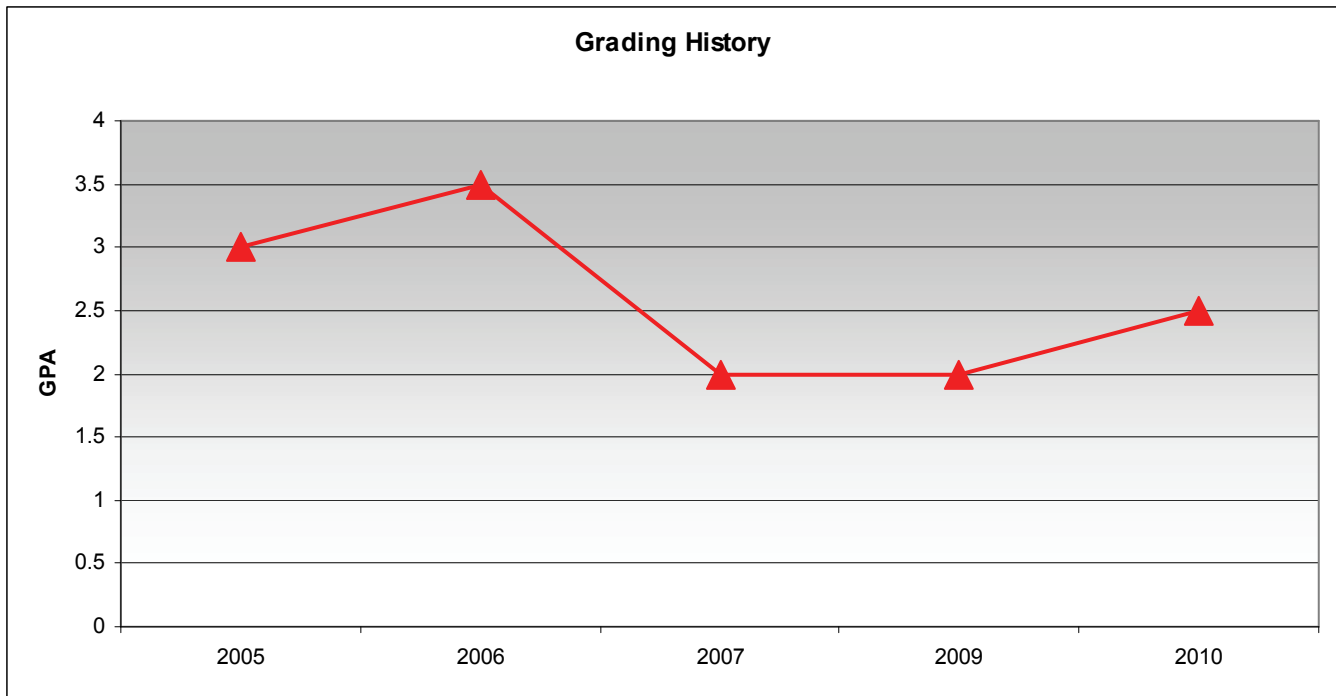
Average grade
14 years = 2.04

C

Minnehaha Creek #11 is located at the Utley Park canoe landing just below the Mill Pond Dam. Benilde-St. Margaret High School, led by John Porisch, has been monitoring this site for several years. They visited the stream in both spring and fall of 2010. However, the April sample contained only 32 individual invertebrates.

Minnehaha Creek Site #32

Minneapolis



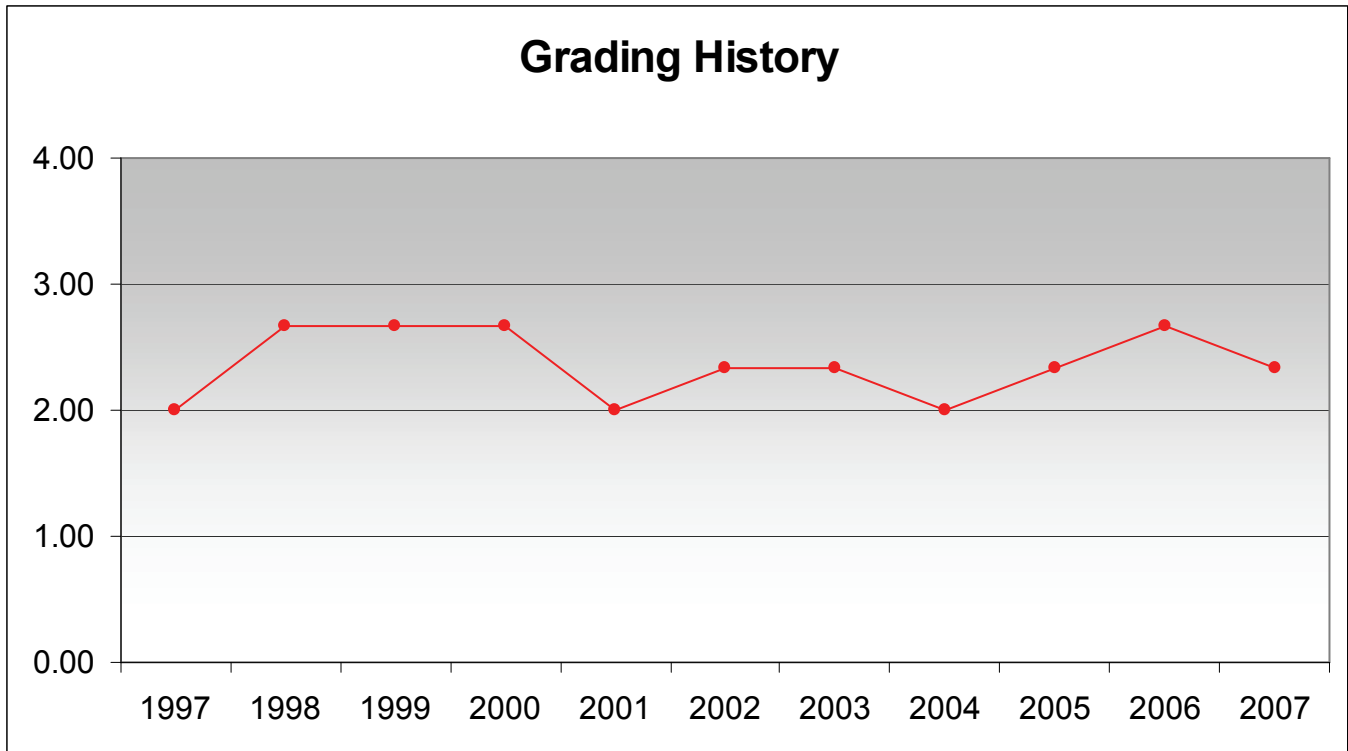
Minnehaha Creek Site #32 Grading History	
Year	Grade
2010	C+
2009	C
2007	C
2006	B+
2005	B

Average grade
5 years = 2.38

C+

Minnehaha Creek #32 is located near the intersection of Hiawatha Avenue and Minnehaha Parkway in South Minneapolis.. This stretch of the creek meanders through a residential area in Minneapolis. A walking path follows the open space in this area of the city. Wendy Anderson and her students from Minneapolis Transitional School monitor this site. They collected invertebrates in September of 2010.

Minnehaha Creek Site #14 Minneapolis



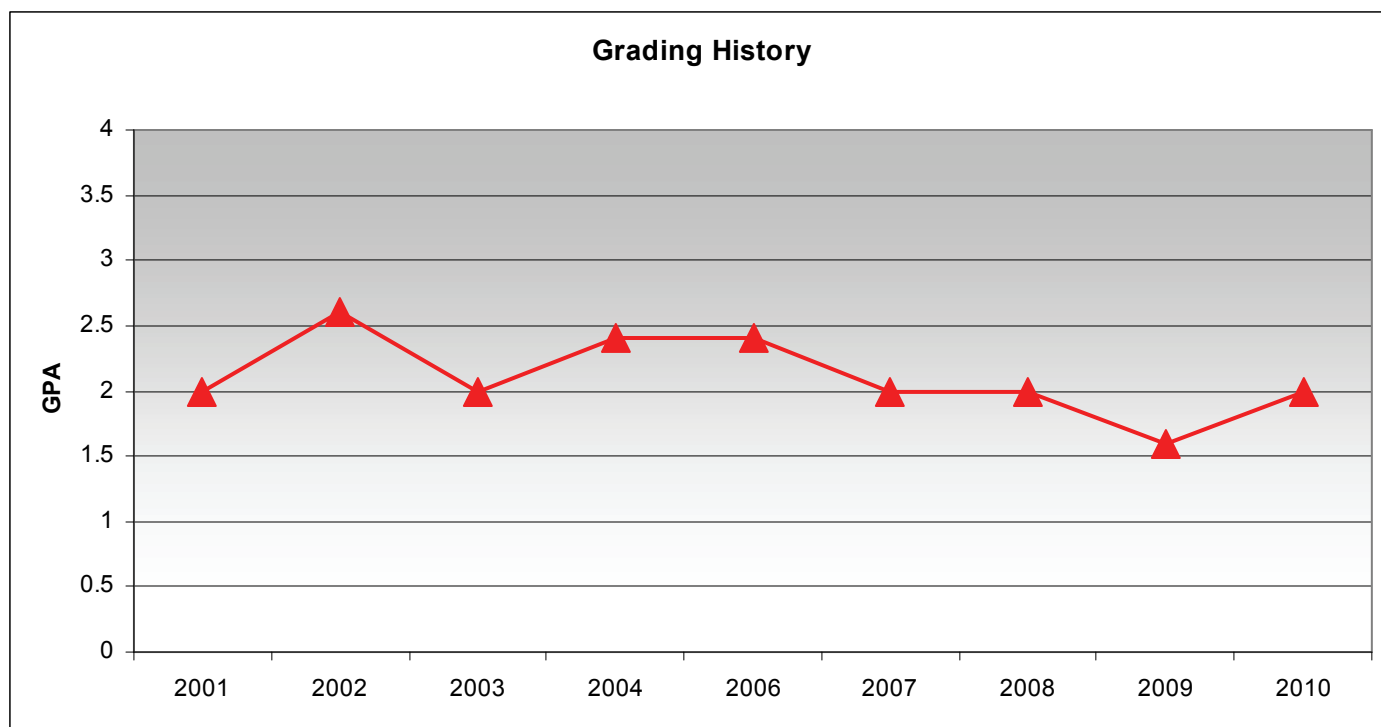
Minnehaha Creek Site #14 Grading History	
Year	Grade
2010	pending
2009	No data-construction
2008	No data-low water
2007	C+
2006	B-
2005	C+
2004	C
2003	C+
2002	C+
2001	C
2000	B-
1999	B-
1998	B-
1997	C

Average grade
11 years = 2.75

B-

Minnehaha Creek #14 is located at the intersection of the creek at Nicollet Avenue in South Minneapolis. Bill Holden and his students from Washburn High School have been monitoring this site since 1999. Low water levels at the site deterred sampling in 2009. It is reported that construction activities at the bridge have scraped away the riffle area at the site, and created a slightly deeper depression in the creek bottom. The sampling site was moved downstream approximately 30 feet in 2010.

Minnehaha Creek Site #25 Minnehaha Falls, Minneapolis



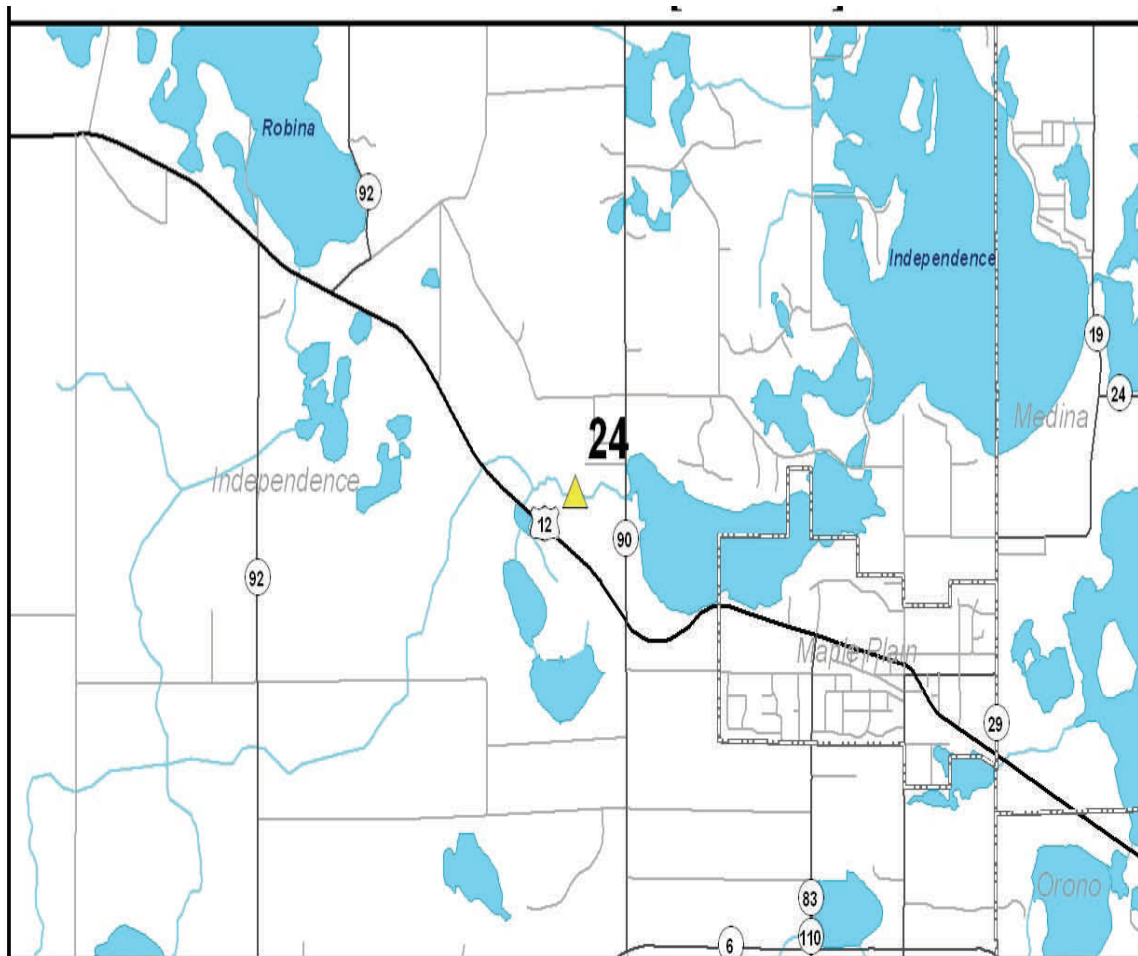
Minnehaha Creek Site #25 Grading History	
Year	Grade
2010	C
2009	C-
2008	C
2007	C
2006	C+
2004	C+
2003	C
2002	B-
2001	C

Average grade
8 years = 1.91

C

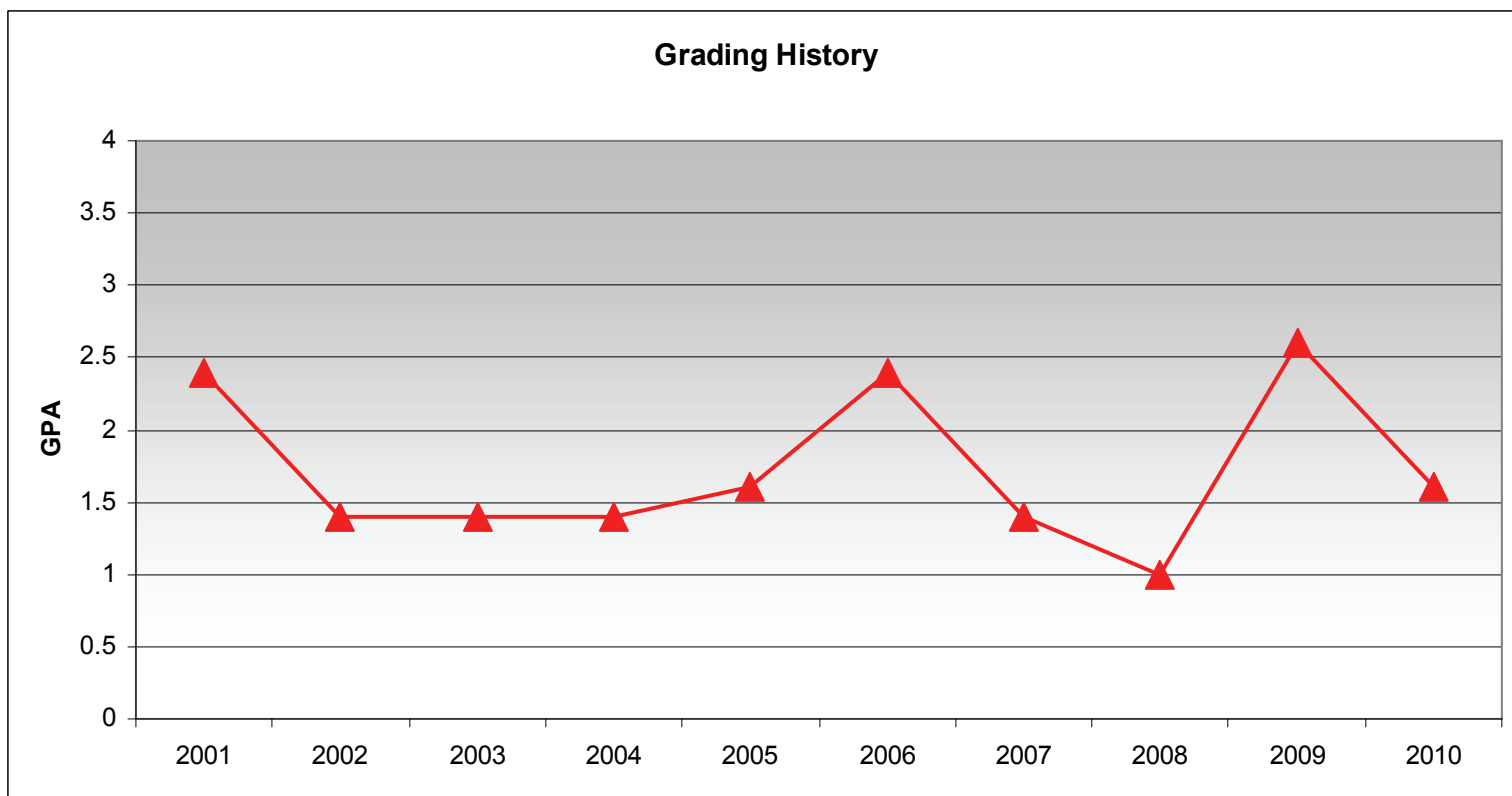
Minnehaha Creek #25 is located below Minnehaha Falls in a forested park location in South Minneapolis. This stretch of Minnehaha Creek has a very rocky substrate. Students from Carondelet Catholic School, along with their teacher, Cece Cope, have been monitoring this site since 2006. They were able to sample in the spring of 2010.

Pioneer—Sarah Creek



The Pioneer-Sarah Creek Watershed is made up of two streams: Pioneer Creek and Sarah Creek. Pioneer Creek drains out of Lake Independence, and Sarah Creek runs from Sarah Lake. Both streams merge with the Crow River.

Pioneer Creek Site #24 Independence



Pioneer Creek Site #24 Grading History	
Year	Grade
2010	D+
2009	B+
2008	D
2007	C-
2006	B-
2005	C-
2004	D+
2003	D+
2002	D+
2001	C-

Average grade
10 years = 1.55

C-

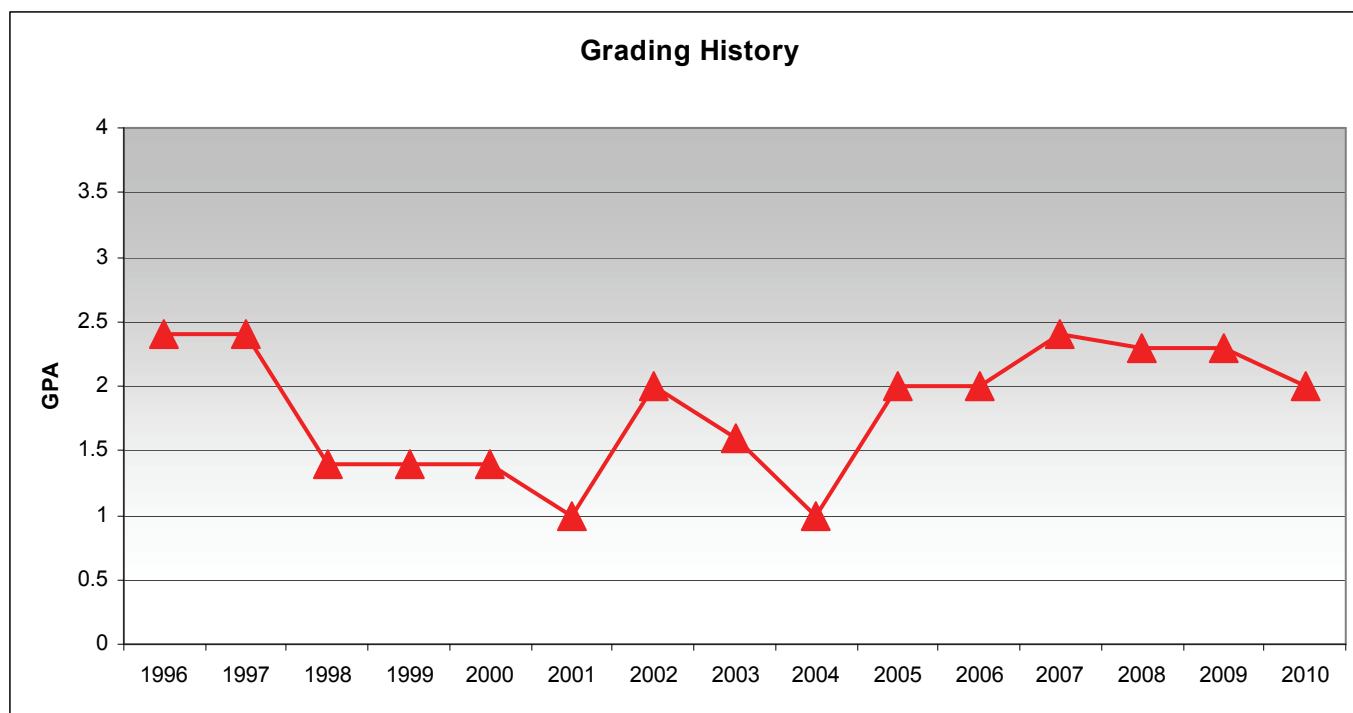
Pioneer Creek Site #24 is located adjacent to a city park in Independence south of Pagenkopf Road. The site contains a thick stand of cattails and the waterflow is slow. Students from Rockford High School along with their teacher, Jason Hester, have been monitoring this site since 2001. Steve Merten brought his students from West Lutheran to sample this site in the fall of 2010.

Shingle Creek



Shingle Creek is formed at the junction of Bass Creek and Eagle Creek in Brooklyn Park. It generally flows southwest until it meets the Mississippi River in Minneapolis. It runs 11 miles and drops 66 feet before reaching the mouth.

Shingle Creek Site #10 Brooklyn Park



Shingle Creek Site #10 Grading History	
Year	Grade
2010	C
2009	C-
2008	C-
2007	C+
2006	C
2005	C
2004	D
2003	D+
2002	C
2001	D
2000	D+
1999	D+
1998	D+
1997	C+
1996	B-

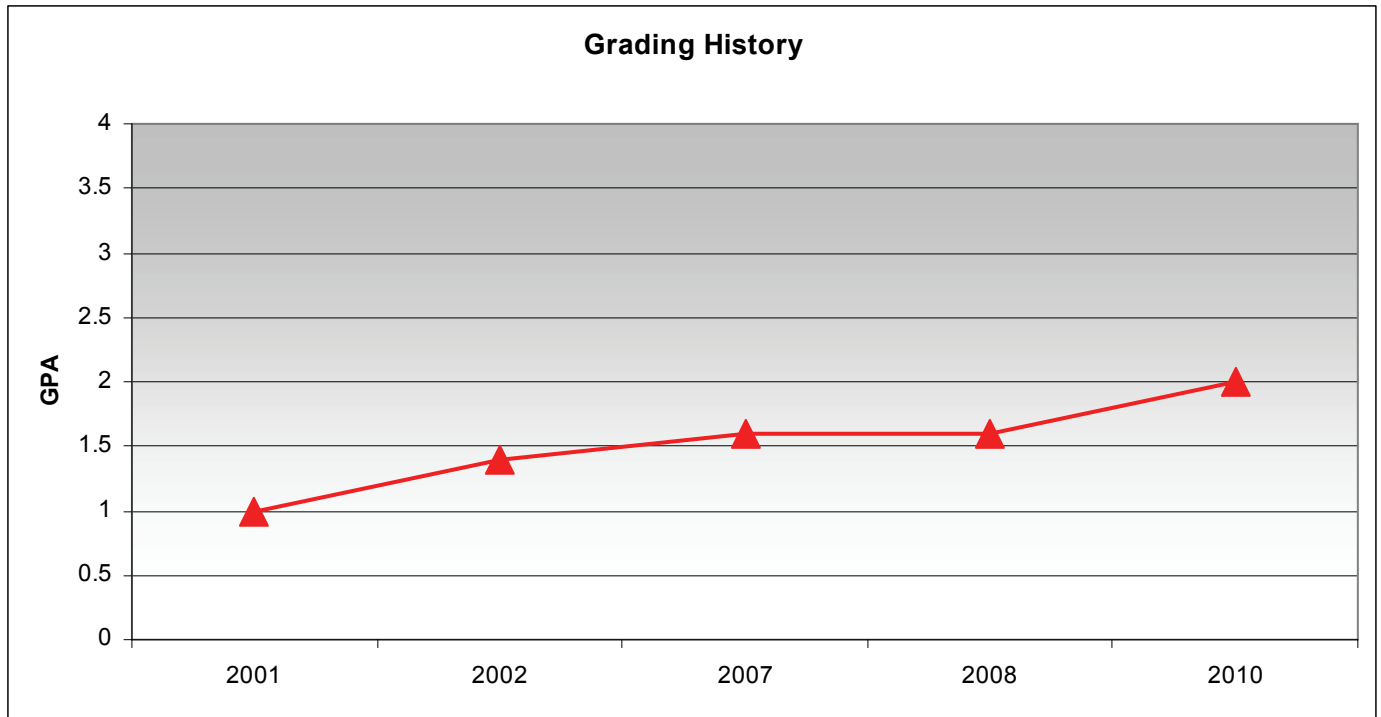
Average grade
15 years = 1.66

C-

Shingle Creek #10 is located on the grounds of Park Center High School in Brooklyn Park, near the intersections of Brooklyn Blvd and Noble Avenue. This site has one of the longest data records for the River Watch program in Hennepin County. Cindy Jahnke and her students from Park Center High School have been monitoring this site since 1996. They sampled the creek in May and September of 2010. In May, the water was very low, and only 43 invertebrates were collected, but in the fall, the students had great success.

Shingle Creek Site #27

Brooklyn Park



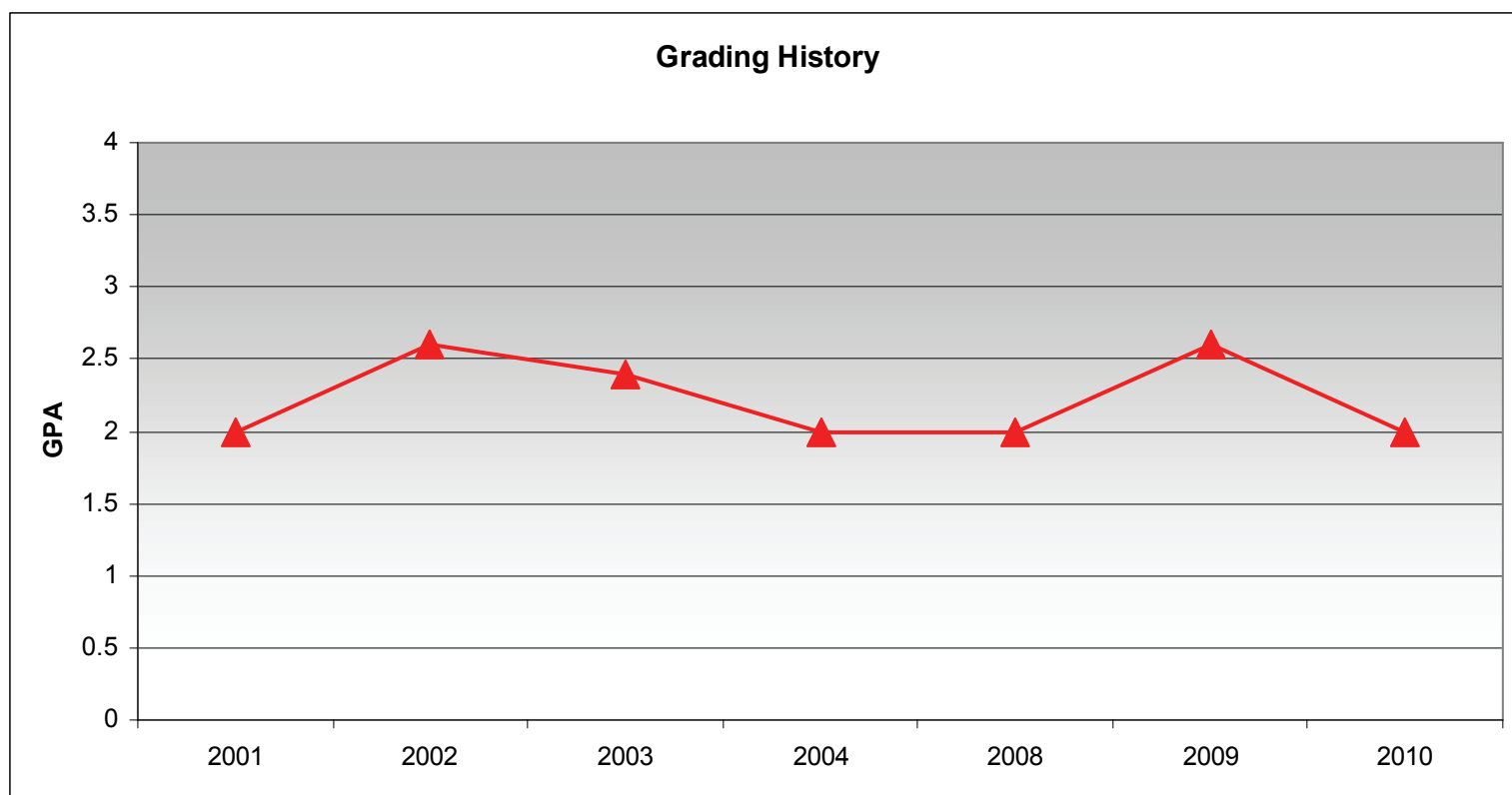
Shingle Creek Site #27 Grading History	
Year	Grade
2010	C
2009	No data
2008	C-
2007	C-
2002	D+
2001	D

Average grade
5 years = 1.7

C-

Shingle Creek #27 is located in Brooklyn Park near the intersections of Brooklyn Blvd and Boone Avenue, behind a light industrial building. This stretch of the stream is deposited with sediment. This site has been monitored off and on since 2001. Dustin Dobitz and his students from Highview Alternative School currently monitor the site. He and his students sampled the stream in September of 2010.

Shingle Creek Site #28 Freemont Ave Bridge, Minneapolis



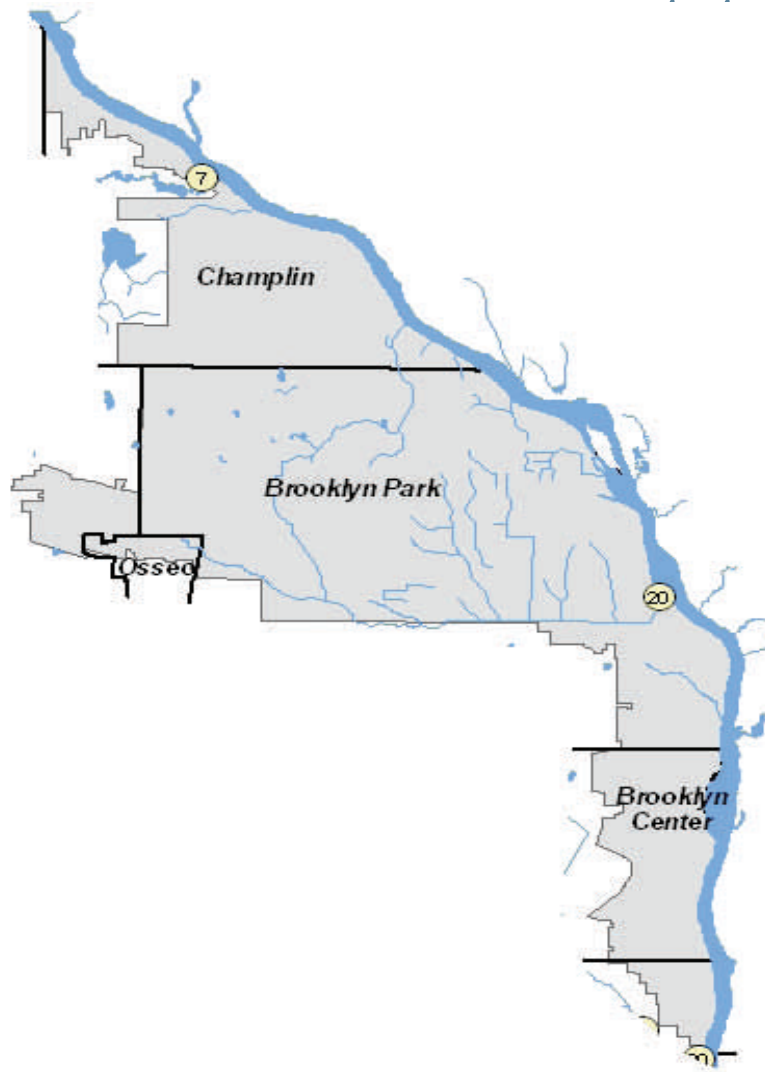
Shingle Creek Site #28 Grading History	
Year	Grade
2010	C
2009	C+
2008	C
2004	C
2003	C-
2002	C+
2001	C

Average grade
7 years = 1.94

C

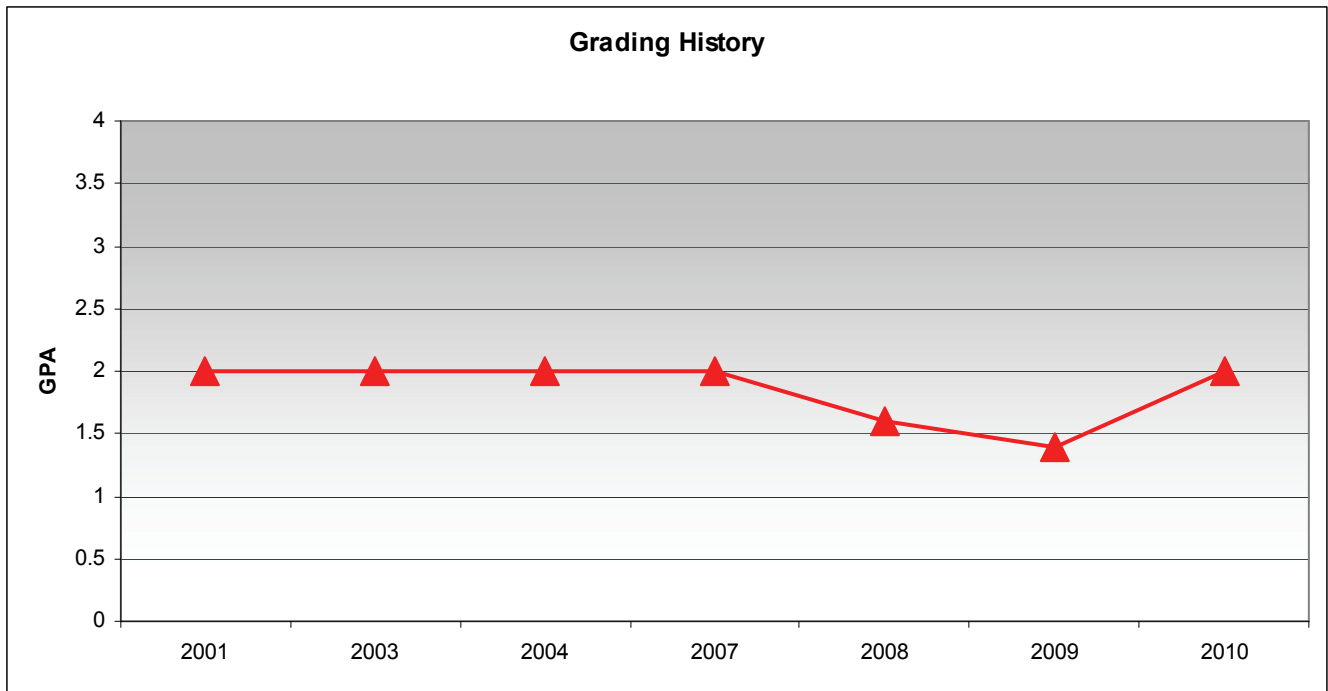
Shingle Creek #28 is located below the Freemont Avenue Bridge near the intersections of Fremont Avenue and 45th Avenue in north Minneapolis. Patrick Henry High School has been monitoring this site off and on since 2001. Charlene Ellingson and her students now monitor the site. Patrick Henry sampled this site in May and October of 2010. The scores were similar.

West Mississippi



This watershed runs on the far eastern side of the County to include the Cities of Champlain, Brooklyn Park and Brooklyn Center. Data from both sites within the West Mississippi Watershed date back to the 1990's.

Mattson Brook Site #20 Brooklyn Park



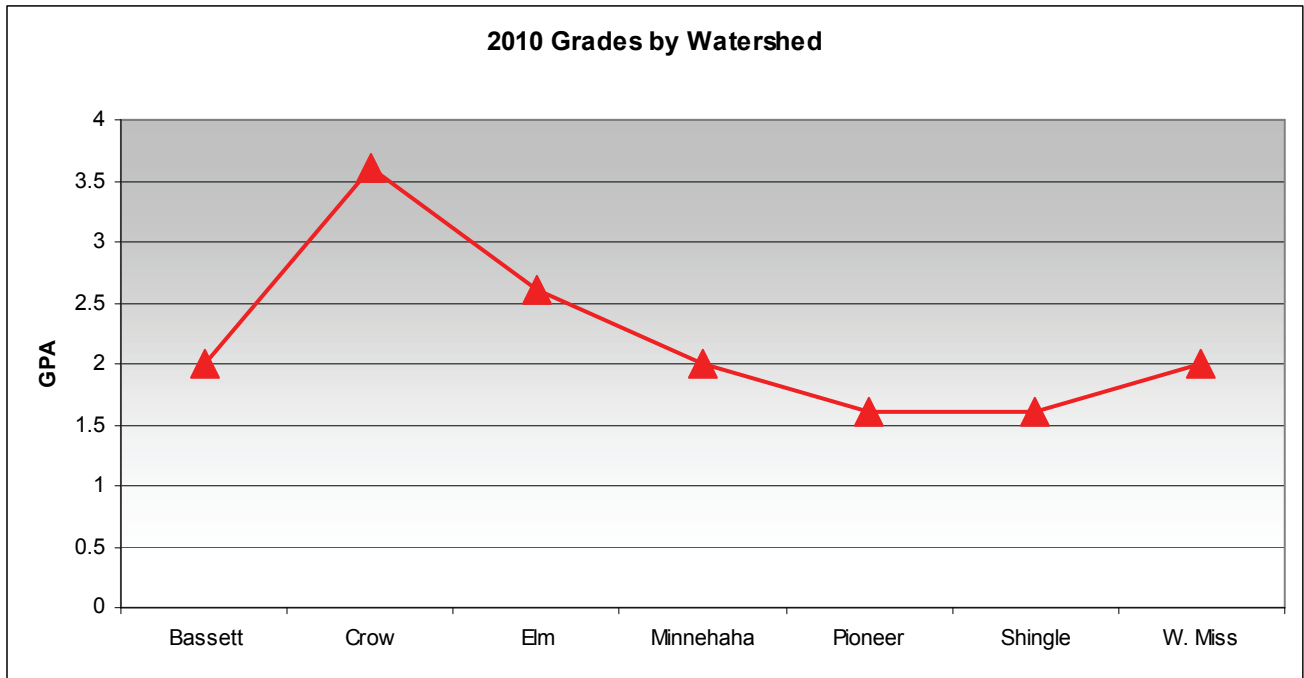
Mattson Brook Site #20 Grading History	
Year	Grade
2010	C
2009	D+
2008	C-
2007	C
2004	C
2003	C
2001	C
2000	C
1999	B
1998	B

Average grade
10 years = 2.05

C

Mattson Brook #20 is located where Edinbrook Channel turns into Mattson Brook in Brooklyn Park, near West River Road.

Cindy Ward has brought students from South High School to this site to sample since 2007. Her class sampled in September of 2010.



Hennepin County Overall Grades 2010		
Watershed	Grade	Average 2010
Bassett	C-, C+	C
Crow	B, B+	B+
Elm	C+,C	C+
Minnehaha	C+,C,B-C,C,C+,C	C
Pioneer/Sarah	C-	C-
Shingle	C-,C-C	C-
West Mississippi	C	C



Photographs of participants were supplied by the school groups and Fortin Consulting, Inc.
For additional copies of this report contact Hennepin County Environmental Services at: 612-596-9129