

Barr Engineering Company
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An EEO Employer

Minneapolis, MN • Hibbing, MN • Duluth, MN • Ann Arbor, MI • Jefferson City, MO • Bismarck, ND

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

Page # 1
 Invoice # 2327051-2009-11
 Project # 23/27-051
 Client # 59
 January 11, 2010

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
 November 28, 2009 through December 25, 2009

ENGINEERING

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, 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; prepared and revised draft CIP list; provided tunnel inspection summary to Xcel Energy staff based on FERC request.

James P. Herbert, Principal Engineer/Scientist		
2.3 hours @ \$140.00 per hour	\$	322.00
Leonard J. Kremer, Principal Engineer/Scientist		
4.7 hours @ \$155.00 per hour	\$	728.50
Karen L. Chandler, Senior Consultant		
1.0 hours @ \$140.00 per hour	\$	140.00
Michael Strong, Engineer/Scientist		
0.7 hours @ \$65.00 per hour	\$	45.50
Technicians/Administrative	\$	320.00
Subtotal, Technical Services	\$	1,556.00

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Telephone conversations regarding proposed developments; provided watershed hydraulic information, flood profiles and BCWMC development requirements to applicants; preliminary review and coordination with city and AJA regarding site in Golden Valley; coordination with Loucks & Associates regarding redevelopment in Plymouth; conversation with Met Council regarding bridge across Bassett Creek at Wirth Park; telephone conversations and attended meeting with Golden Valley, MPRB, HDR and LaMetti & Sons regarding proposed work along Bassett Creek; telephone conversation with MFRA regarding project in Plymouth; conversation with WSB regarding Golden Valley Golf Club project; coordination with HGA regarding Courage Center project in Golden Valley.

James P. Herbert, Principal Engineer/Scientist		
8.4 hours @ \$140.00 per hour	\$	1,176.00

Expenses (mileage)	\$ 13.75
Subtotal, Preliminary Site/Corr	\$ 1,189.75

MONTHLY MEETING PREPARATION

Preparation of monthly memorandums for BCWMC meeting; reviewed draft BCWMC meeting minutes, agenda and packet materials and discussed comments with Bassett Creek Recording Administrator; conference call with BCWMC Chair regarding meeting agenda; communications with Bassett Creek Recording Administrator; internal meetings regarding agenda, to-do list and meeting packet and December 17, 2009 meeting; prepared permit figures; reviewed CIP account balance; reviewed draft 2010 TMDL list for TMDL dates for Bassett Creek and Northwood Lake; reviewed next steps for Resource Management Plan (RMP).

James P. Herbert, Principal Engineer/Scientist 20.3 hours @ \$140.00 per hour	\$ 2,842.00
Leonard J. Kremer, Principal Engineer/Scientist 4.7 hours @ \$155.00 per hour	\$ 728.50
Karen L. Chandler, Senior Consultant 15.8 hours @ \$140.00 per hour	\$ 2,212.00
Expenses (postage)	\$ 0.44
Subtotal, Monthly Memorandums	\$ 5,782.94

CHANNEL MAINTENANCE FUND

Communications with Golden Valley staff regarding channel maintenance fund; prepared cost estimate for MPRB channel repairs

James P. Herbert, Principal Engineer/Scientist 0.7 hours @ \$140.00 per hour	\$ 98.00
Karen L. Chandler, Senior Consultant 0.3 hours @ \$140.00 per hour	\$ 42.00
Jeffrey T. Lee, Senior Consultant 1.0 hours @ \$130.00 per hour	\$ 130.00
Technicians/Administrative	\$ 550.00
Subtotal, Channel Maintenance Fund	\$ 820.00

TAC MEETING PREPARATION

Prepared draft TAC recommendations memorandum and agenda items.

Leonard J. Kremer, Principal Engineer/Scientist 4.5 hours @ \$155.00 per hour	\$ 697.50
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Technicians/Administrative	\$ 75.00
Subtotal, TAC Meeting Preparation	\$ 772.50
Subtotal Technical Services	\$ 10,121.19

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.

Ballpark Authority

Coordination with Ballpark authority regarding easement issues.

Leonard J. Kremer, Principal Engineer/Scientist 8.5 hours @ \$155.00 per hour	\$ 1,317.50
Expenses (mileage)	\$ 20.90
Subtotal, Ballpark Authority	\$ 1,338.40
Subtotal Plat Review	\$ 1,338.40

COMMISSION MEETINGS

Attended December 17, 2009 Commission meeting.

Karen L. Chandler, Senior Consultant 2.7 hours @ \$140.00 per hour	\$ 378.00
Subtotal, Commission Meetings	\$ 378.00

WATER QUALITY MONITORING

(Biotic Index Monitoring & Northwood / Rice Lake Monitoring / Sweeney/Twin Monitoring)

Coordination with MPCA; coordination with Dean Hansen regarding invertebrate analyses; coordination with Three Rivers Park District regarding phytoplankton/zooplankton analyses; reviewed and summarized data for reports; data analyses; preparation of figures; preliminary water quality monitoring report preparation for Northwood Lake, South Rice Lake, Sweeney Lake and Twin Lake; review for invertebrate monitoring; preliminary preparation of Biotic Index Report.

James P. Herbert, Principal Engineer/Scientist 2.8 hours @ \$140.00 per hour	\$ 392.00
Karen L. Chandler, Senior Consultant 1.0 hours @ \$140.00 per hour	\$ 140.00
Margaret R Rattei, Senior Consultant 10.5 hours @ \$110.00 per hour	\$ 1,155.00

Mark E. Wilson, Senior Consultant	
23.5 hours @ \$95.00 per hour	\$ 2,232.50
Aaron M. Mielke, Engineer/Scientist	
12.3 hours @ \$80.00 per hour	\$ 984.00
Jessica L. Butler, Engineer/Scientist	
20.5 hours @ \$85.00 per hour	\$ 1,742.50
Technicians/Administrative	\$ 238.00
Expenses (Subconsultant Dean C. Hansen/Three Rivers Park District)	\$ 8,148.80
Subtotal, Water Quality Monitoring	\$ 15,032.80

WATER QUANTITY

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

Technicians/Administrative	\$ 304.00
Expenses (mileage/2WD vehicle)	\$ 51.10
Subtotal, Water Quantity	\$ 355.10

REVIEW MUNICIPAL PLANS

Communications with city of Crystal regarding review of its Local Surface Water Management Plan.

Karen L. Chandler, Senior Consultant	
0.9 hours @ \$140.00 per hour	\$ 126.00
Subtotal, Municipal Plans	\$ 126.00

TOTAL ENGINEERING \$ **27,351.49**

SECRETARIAL SERVICES

SECRETARIAL SERVICES EXPENSES

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

Technicians/Administrative	\$ 37.50
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Expenses (B&W/color copies/postage)	\$	109.07
Catering (BCWMC meeting date)	\$	<u>-0-</u>
TOTAL SECRETARIAL SERVICES EXPENSES	\$	146.57

PUBLIC RELATIONS

TOTAL PUBLIC RELATIONS	\$	0.00
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CAPITAL IMPROVEMENT PROJECTS

RESOURCE MANAGEMENT PLAN (RMP)

Coordination with Corps of Engineers regarding final report and SHPO issues.

Leonard J. Kremer, Principal Engineer/Scientist		
0.5 hours @ \$155.00 per hour	\$	77.50
Karen L. Chandler, Senior Consultant		
0.3 hours @ \$140.00 per hour	\$	42.00
Jeffrey T. Lee, Senior Consultant		
0.6 hours @ \$130.00 per hour	\$	<u>78.00</u>
Subtotal, Resource Management Plan	\$	197.50

PLYMOUTH CREEK FEASIBILITY

Prepared PDF of BWSR Clean Water Fund Grant application submittal package and prepared memo for December Commission meeting; communications with BWSR staff regarding grant and feasibility report; provided drawings to Plymouth.

Leonard J. Kremer, Principal Engineer/Scientist		
3.0 hours @ \$155.00 per hour	\$	465.00
Karen L. Chandler, Senior Consultant		
1.2 hours @ \$140.00 per hour	\$	<u>168.00</u>
Subtotal, Plymouth Creek Feasibility	\$	633.00

BASSETT CREEK FEASIBILITY STUDY

Prepared PDF of BWSR Clean Water Fund Grant application submittal package and prepared memorandum for December Commission meeting; prepared, reviewed and revised narrative, and emailed spreadsheet and narrative to BWSR.

Karen L. Chandler, Senior Consultant	
1.2 hours @ \$140.00 per hour	\$ 168.00
Subtotal, Bassett Creek Feasibility Study	\$ 168.00
TOTAL CAPITAL IMPROVEMENT PROJECTS	\$ 998.50

TMDL STUDIES

SWEENEY LAKE TMDL

Coordination regarding Sweeney Lake TMDL; provided information to MPCA regarding subwatershed boundaries; provided GIS data to MPCA.

James P. Herbert, Principal Engineer	
0.5 hours @ \$140.00 per hour	\$ 70.00
Karen L. Chandler, Senior Consultant	
0.2 hours @ \$140.00 per hour	\$ 28.00
Keith M. Pilgram, Senior Engineer/Scientist	
0.6 hours @ \$120.00 per hour	\$ 72.00
Subtotal, Sweeney Lake TMDL	\$ 170.00

E-COLI SAMPLING

Coordination regarding E-Coli sampling and laboratory analysis; summarized data and prepared graphs and memorandum.

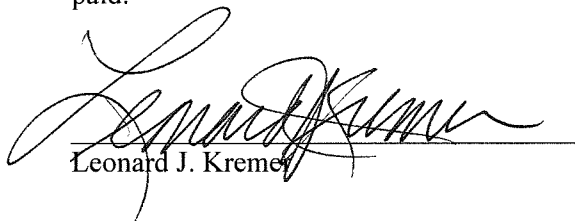
Technicians/Administrative	\$ 768.00
Subtotal, E-coli Sampling	\$ 768.00

TOTAL TMDL STUDIES	\$ 938.00
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SUMMARY TOTALS

Total Engineering	\$ 27,351.49
Total Secretarial Services Expenses	\$ 146.57
Total Public Relations	\$ -0-
Total Capital Improvement Projects	\$ 998.50
Total TMDL Studies	\$ 938.00
TOTAL PAYABLE	\$ 29,434.56

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