

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

Page # 1
Invoice # 2327051-2009-10
Project # 23/27-051
Client # 59
December 4, 2009

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
October 31, 2009 through November 27, 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; coordination regarding Medicine Lake Dam and AMLAC concerns, coordination with MPCA regarding E-coli TMDL, provided watershed maps for Bassett Creek tunnel.

James P. Herbert, Principal Engineer/Scientist		
3.5 hours @ \$140.00 per hour	\$	490.00
Leonard J. Kremer, Principal Engineer/Scientist		
3.5 hours @ \$155.00 per hour	\$	542.50
Karen L. Chandler, Senior Consultant		
0.6 hours @ \$140.00 per hour	\$	84.00
Jeffrey T. Lee, Senior Consultant		
1.2 hours @ \$130.00 per hour	\$	156.00
Technicians/Administrative	\$	659.00
Subtotal, Technical Services	\$	1,931.50

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 TKDA and Minneapolis staff regarding BNSF project; communication with Braun Intertec and preliminary review of proposed plan in Minneapolis; preliminary review and coordination with city and applicant regarding Metro site in St. Louis Park; preliminary review and coordination with city and AJA regarding site in Golden Valley.

James P. Herbert, Principal Engineer/Scientist
5.0 hours @ \$140.00 per hour \$ 700.00

Subtotal, Preliminary Site/Corr \$ 700.00

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 November 18, 2009 meeting; prepared permit figures; reviewed CIP account balance.

James P. Herbert, Principal Engineer/Scientist
7.0 hours @ \$140.00 per hour \$ 980.00

Leonard J. Kremer, Principal Engineer/Scientist
2.8 hours @ \$155.00 per hour \$ 434.00

Karen L. Chandler, Senior Consultant
9.2 hours @ \$140.00 per hour \$ 1,288.00

Subtotal, Monthly Memorandums \$ 2,702.00

CHANNEL MAINTENANCE FUND

Coordination and meeting with MPRB regarding stream bank restoration in Minneapolis.

Leonard J. Kremer, Principal Engineer/Scientist
2.1 hours @ \$155.00 per hour \$ 325.50

Subtotal, Channel Maintenance Fund \$ 325.50

TAC MEETING PREPARATION

Prepared draft TAC recommendations memorandum from November 5, 2009 meeting and distributed for review.

Leonard J. Kremer, Principal Engineer/Scientist
5.7 hours @ \$155.00 per hour \$ 883.50

Karen L. Chandler, Senior Consultant
1.1 hours @ \$140.00 per hour \$ 154.00

Subtotal, TAC Meeting Preparation \$ 1,037.50

Subtotal Technical Services \$ 6,696.50

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 7.5 hours @ \$155.00 per hour	\$ 1,162.50
Subtotal, Ballpark Authority	\$ 1,162.50
Subtotal Plat Review	\$ 1,162.50

COMMISSION MEETINGS

Attended November 18, 2009 Commission meeting and November 5, 2009 TAC meeting.

Leonard J. Kremer, Principal Engineer/Scientist 3.0 hours @ \$155.00 per hour	\$ 465.00
Karen L. Chandler, Senior Consultant 4.0 hours @ \$140.00 per hour	\$ 560.00
Expenses (mileage)	\$ 30.25
Subtotal, Commission Meetings	\$ 1,055.25

SURVEYS AND STUDIES

Telephone conversation with Brad Wozney/BWSR regarding BWSR grant eligibility; prepared BWSR Clean Water Fund Grant application; discussed NL-2 CIP project with City of Plymouth staff; coordination with MPCA regarding Surface Water Assessment Grant (SWAG); telephone conversation with MPCA staff regarding MPCA and BCWMC creek monitoring parameters and locations and grant eligibility; prepared memo regarding grants update on BWSR, SWAG and Hennepin County grants.

Karen L. Chandler, Senior Consultant 8.4 hours @ \$140.00 per hour	\$ 1,176.00
Subtotal, Surveys and Studies	\$ 1,176.00

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

Data analyses and preliminary water quality monitoring report preparation for Northwood Lake, South Rice Lake, Sweeney Lake and Twin Lake; preparation for invertebrate monitoring and collection of samples along Bassett Creek and Plymouth Creek; coordination with laboratory for analysis; coordination with Dean Hansen regarding invertebrate analyses; coordination with Three Rivers Park District regarding phytoplankton/zooplankton analyses.

Margaret R Rattei, Senior Consultant	
4.5 hours @ \$110.00 per hour	\$ 495.00
Michael Strong, Engineer/Scientist	
0.5 hours @ \$65.00 per hour	\$ 32.50
Expenses (Mileage, 2WD field vehicle)	\$ 18.70
Subtotal, Water Quality Monitoring	\$ 546.20

WATER QUANTITY

Reviewed flow level at downstream reach of Bassett Creek in Minneapolis.

Jacob Burggraff, Senior Consultant	
2.0 hours @ \$115.00 per hour	\$ 230.00
Subtotal, Water Quantity	\$ 230.00

WATERSHED INSPECTION

Coordination with City of Minneapolis staff regarding inspections; reviewed inspection items and coordinated for 2010 program.

James P. Herbert, Principal Engineer/Scientist	
1.0 hours @ \$140.00 per hour	\$ 140.00
Subtotal, Watershed Inspection	\$ 140.00

FLOOD CONTROL PROJECT INSPECTION

Communications with city staff regarding annual flood control project inspection, preliminary planning including preparation of inspection logs and field recording documents, review of previous inspection reports, scheduled and performed annual inspection. Coordination with City of Minneapolis and Corps of Engineers staff regarding double box culvert inspection; prepared field records, safety plan, and confined space entry for box culvert inspection; reviewed equipment and safety devices; performed double box culvert inspection.

James P. Herbert, Principal Engineer/Scientist	
22.6 hours @ \$140.00 per hour	\$ 3,164.00
Jacob Burggraff, Senior Consultant	
45.8 hours @ \$115.00 per hour	\$ 5,267.00
Richard Ver Strate, Senior Engineer/Scientist	
10.1 hours @ \$115.00 per hour	\$ 1,161.50
Whitney Eriksson, Engineer/Scientist	
15.9 hours @ \$85.00 per hour	\$ 1,351.50
Expenses (mileage)	\$ 82.50
Subtotal, Flood Control Project Inspection	\$ 11,026.50

REVIEW MUNICIPAL PLANS (Robbinsdale Local Plan)

Calls to/from City of Robbinsdale consultant regarding its local surface water management plan and provided information to Robbinsdale regarding subwatershed boundaries.

James P. Herbert, Principal Engineer/Scientist		
1.5 hours @ \$140.00 per hour	\$	210.00
Michael Strong, Engineer/Scientist		
0.2 hours @ \$65.00 per hour	\$	13.00
Subtotal, Municipal Plans	\$	223.00

TOTAL ENGINEERING \$ **22,255.95**

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,

Expenses (B&W/color copies/postage)	\$	127.00
Catering (BCWMC meeting date)	\$	-0-

TOTAL SECRETARIAL SERVICES EXPENSES \$ **127.00**

PUBLIC RELATIONS

WOMP

Coordination with MPRB regarding 2009 WOMP station; coordination with BCWMC and Met Council regarding WOMP flux modeling; email communication to Chair Welch regarding Met Council WOMP and Flux modeling request.

James P. Herbert, Principal Engineer/Scientist		
2.5 hours @ \$140.00 per hour	\$	350.00
Karen L. Chandler, Senior Consultant		
0.7 hours @ \$140.00 per hour	\$	98.00
Christopher Bonick, Senior Engineer/Scientist		
4.0 hours @ \$100.00 per hour	\$	400.00
Subtotal, Public Relations/WOMP	\$	848.00

TOTAL PUBLIC RELATIONS \$ **848.00**

CAPITAL IMPROVEMENT PROJECTS

TWIN LAKE (TW-1)

Prepared map of south side of Twin Lake and coordination and correspondence with Golden Valley and BCWMC regarding Twin Lake CIP project.

Leonard J. Kremer, Principal Engineer/Scientist 4.0 hours @ \$155.00 per hour	\$ 620.00
Jennifer Koehler, Engineer/Scientist 0.5 hours @ \$90.00 per hour	\$ 45.00
Subtotal, Twin Lake (TW-1)	\$ 665.00

PLYMOUTH CREEK RESTORATION

Coordination and communication with Plymouth staff regarding Plymouth Creek restoration CIP project.

Leonard J. Kremer, Principal Engineer/Scientist 2.5 hours @ \$155.00 per hour	\$ 387.50
Subtotal, Plymouth Creek Restoration	\$ 387.50

RESOURCE MANAGEMENT PLAN (RMP)

Coordination with Joe Yanta and Corps of Engineers regarding final report.

Leonard J. Kremer, Principal Engineer/Scientist 1.7 hours @ \$155.00 per hour	\$ 263.50
Jeffrey T. Lee, Senior Consultant 0.3 hours @ \$130.00 per hour	\$ 39.00
Subtotal, Resource Management Plan	\$ 302.50

PLYMOUTH CREEK FEASIBILITY

Prepared BWSR Clean Water Fund Grant application.

Karen L. Chandler, Senior Consultant 8.6 hours @ \$140.00 per hour	\$ 1,204.00
Jeffrey T. Lee, Senior Consultant 0.5 hours @ \$130.00 per hour	\$ 65.00
Alicia Duncan, Communication Specialist 0.4 hours @ \$85.00 per hour	\$ 34.00
Subtotal, Plymouth Creek Feasibility	\$ 1,303.00

BASSETT CREEK FEASIBILITY STUDY

Prepared BWSR Clean Water Fund Grant application reviewed and revised narrative, and emailed spreadsheet and narrative to BWSR.

Leonard J. Kremer, Principal Engineer/Scientist 2.5 hours @ \$155.00 per hour	\$ 387.50
Karen L. Chandler, Senior Consultant 8.7 hours @ \$140.00 per hour	\$ 1,218.00
Jeffrey T. Lee, Senior Consultant 0.5 hours @ \$130.00 per hour	\$ 65.00
Subtotal, Bassett Creek Feasibility Study	\$ 1,670.50

TOTAL CAPITAL IMPROVEMENT PROJECTS \$ 4,328.50

TMDL STUDIES

MEDICINE LAKE TMDL

Coordination regarding Medicine Lake TMDL; discussed potential improvement options, prepared draft memorandum regarding Medicine Lake TMDL; reviewed comments from October 29 public meeting, discussions with Hennepin County regarding agreement.

Leonard J. Kremer, Principal Engineer 3.2 hours @ \$155.00 per hour	\$ 496.00
Karen L. Chandler, Senior Consultant 1.3 hours @ \$140.00 per hour	\$ 182.00
Gregory J. Wilson, Senior Consultant 0.5 hours @ \$135.00 per hour	\$ 67.50
Subtotal, Medicine Lake TMDL	\$ 745.50

E-COLI SAMPLING

Coordination regarding E-Coli sampling and laboratory analysis.

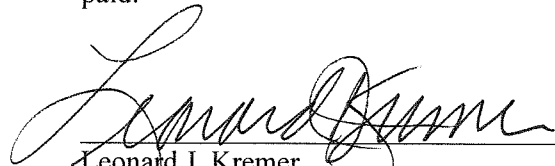
Margaret R Rattei, Senior Consultant 0.6 hours @ \$110.00 per hour	\$ 66.00
Subtotal, E-coli Sampling	\$ 66.00

TOTAL TMDL STUDIES \$ 811.50

SUMMARY TOTALS

Total Engineering	\$ 22,255.95
Total Secretarial Services Expenses	\$ 127.00
Total Public Relations	\$ 848.00
Total Capital Improvement Projects	\$ 4,328.50
Total TMDL Studies	<u>\$ 811.50</u>
TOTAL PAYABLE	\$ 28,370.95

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