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Invoice # 2327051-2009-12
Project # 23/27-051
Client # 59
February 8, 2010

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

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
December 26, 2010 through January 29, 2010

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 follow-up tunnel inspection summary to Xcel Energy staff based on FERC request; phone call from Mississippi River WMO regarding new building; reviewed new budgets for 2010; telephone call with Brad Wozney regarding Bassett grant and major vs. minor plan amendments for TMDL implementation projects; communications with Chair Welch regarding BWSR education and public outreach meeting.

James P. Herbert, Principal Engineer/Scientist		
4.4 hours @ \$140.00 per hour	\$	616.00
Leonard J. Kremer, Principal Engineer/Scientist		
5.0 hours @ \$160.00 per hour	\$	800.00
Karen L. Chandler, Senior Consultant		
2.0 hours @ \$140.00 per hour	\$	280.00
Technicians/Administrative	\$	160.00
Expenses (mileage)	\$	3.00
Subtotal, Technical Services	\$	1,859.00

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Telephone conversations regarding proposed developments; provided watershed hydraulic information, flood profiles and BCWMC development requirements to applicants; coordination with INS Consultants regarding Plymouth site redevelopment; correspondence with Plymouth Staff regarding pond excavation project; conversation with HDR regarding proposed bridge across Bassett Creek in Wirth Park; meeting with Hennepin Co. staff regarding proposed LRT alignments.

Leonard J. Kremer, Principal Engineer/Scientist 1.0 hours @ \$160.00 per hour	\$ 160.00
James P. Herbert, Principal Engineer/Scientist 3.5 hours @ \$140.00 per hour	\$ <u>490.00</u>
Subtotal, Preliminary Site/Corr	\$ 650.00

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 January 21, 2010 meeting; prepared permit figures; prepared email to MPCA regarding E. coli TMDL questions; email to Chair regarding E. Coli TMDL status; review BWSR education cohort workshop information and prepared email to Chair; reviewed CIP account balance.

James P. Herbert, Principal Engineer/Scientist 6.7 hours @ \$140.00 per hour	\$ 938.00
Leonard J. Kremer, Principal Engineer/Scientist 1.0 hours @ \$160.00 per hour	\$ 160.00
Karen L. Chandler, Senior Consultant 7.2 hours @ \$140.00 per hour	\$ <u>1,008.00</u>
Subtotal, Monthly Memorandums	\$ 2,106.00

TAC MEETING PREPARATION

Prepared draft TAC recommendations memorandum and agenda items.

Leonard J. Kremer, Principal Engineer/Scientist 5.5 hours @ \$160.00 per hour	\$ 880.00
Karen L. Chandler, Senior Consultant 2.0 hours @ \$140.00 per hour	\$ <u>280.00</u>
Subtotal, TAC Meeting Preparation	\$ 1,160.00

Subtotal Technical Services \$ **5,775.00**

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 2.0 hours @ \$160.00 per hour	\$ 320.00
Technicians/Administrative	\$ <u>21.00</u>

Subtotal, Ballpark Authority \$ 341.00

GVCC Dredging and Stabilization

Coordination with applicant's consultant and City of Golden Valley staff; reviewed concept drawings and provided comments to applicant; reviewed revised drawings and prepared memorandum and recommendations to the BCWMC; prepared letter of recommendation to City of Golden Valley.

James P. Herbert, Principal Engineer/Scientist
12.3 hours @ \$140.00 per hour \$ 1,722.00
Karen L. Chandler, Senior Consultant
1.4 hours @ \$140.00 per hour \$ 196.00
Michael B. Strong, Engineer/Scientist
0.4 hours @ \$70.00 per hour \$ 28.00

Technicians/Administrative \$ 31.50
Expenses (postage) \$ 0.44

Subtotal, GVCC Dredging and Stabilization \$ 1,977.94

Trustone Federal Credit Union

Coordination with applicant and City of Golden Valley staff; reviewed historical submittals for Golden Valley's floodplain improvement and mitigation project; reviewed final drawings and prepared memorandum and recommendations to the BCWMC; prepared letter of approval to City of Golden Valley.

James P. Herbert, Principal Engineer/Scientist
13.3 hours @ \$140.00 per hour \$ 1,862.00
Karen L. Chandler, Senior Consultant
1.3 hours @ \$140.00 per hour \$ 182.00
Michael B. Strong, Engineer/Scientist
0.3 hours @ \$70.00 per hour \$ 21.00

Subtotal, Trustone Federal Credit Union \$ 2,065.00

Subtotal Plat Review \$ 4,383.94

COMMISSION MEETINGS

Attended January 21, 2010 Commission meeting.

Leonard J. Kremer, Principal Engineer/Scientist
2.0 hours @ \$160.00 per hour \$ 320.00
Karen L. Chandler, Senior Consultant
3.1 hours @ \$140.00 per hour \$ 434.00

Expenses (mileage)	\$ 10.50
Subtotal, Commission Meetings	\$ 764.50

WATER QUALITY MONITORING

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

Coordination with MPCA, Three Rivers Park District, Plymouth, Golden Valley, and New Hope staff; coordination with Dean Hansen regarding invertebrate analyses; coordination regarding phytoplankton/zooplankton analyses; reviewed and summarized data for reports; data analyses; preparation of figures; obtained water quality data from Plymouth staff; internal meetings regarding water quality results and discuss causes and recommendations for Twin Lake; preparation and evaluation of internal loading issues with Twin Lake; prepared surfer plots of data; reviewed DNR wetland status for Rice Ponds; performed Northwood Lake and Rice Pond phytoplankton analyses; performed Sweeney Zooplankton analysis; prepared TP, Secchi, and Chlorophyll a data plots for Parkers Lake; prepared draft Water Quality Monitoring Report for Northwood Lake, South Rice Lake, Sweeney Lake and Twin Lake; prepared draft Biotic Index Report.

Leonard J. Kremer, Principal Engineer/Scientist 4.0 hours @ \$160.00 per hour	\$ 640.00
James P. Herbert, Principal Engineer/Scientist 6.0 hours @ \$140.00 per hour	\$ 840.00
Karen L. Chandler, Senior Consultant 6.7 hours @ \$140.00 per hour	\$ 938.00
Margaret R Rattei, Senior Consultant 148.6 hours @ \$115.00 per hour	\$ 17,089.00
Mark E. Wilson, Senior Consultant 13.0 hours @ \$100.00 per hour	\$ 1,300.00
Keith M. Pilgram, Senior Consultant 2.0 hours @ \$125.00 per hour	\$ 250.00
Evan G. Christianson, Senior Engineer/Scientist 15.4 hours @ \$95.00 per hour	\$ 1,463.00
Aaron M. Mielke, Engineer/Scientist 0.5 hours @ \$85.00 per hour	\$ 42.50
Leslie DellAngelo, Engineer/Scientist 5.1 hours @ \$85.00 per hour	\$ 433.50
Jennette Pipp, Senior Technician 1.5 hours @ \$85.00 per hour	\$ 127.50
Subtotal, Water Quality Monitoring	\$ 23,123.50

WATER QUANTITY

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

James P. Herbert, Principal Engineer/Scientist 2.0 hours @ \$140.00 per hour	\$ 280.00
Technicians/Administrative	\$ 640.00

Expenses (mileage/2WD vehicle)	\$ 82.10
Subtotal, Water Quantity	\$ 1,002.10

WATERSHED INSPECTION

Organized project plans for 2010 inspection program.

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$140.00 per hour	\$ 140.00
Technicians/Administrative	\$ 152.00
Subtotal, Watershed Inspection	\$ 292.00

REVIEW MUNICIPAL PLANS

Communications with city of Crystal regarding review of its Local Surface Water Management Plan (LSWMP); prepared review comments for BCWMC meeting; emails from/to Crystal's consultant regarding revisions to Appendix D of Crystal LSWMP. Provided BCWMC agreements to Minnetonka for its Local Plan. Coordination with Richard McCoy regarding extension to comment period for Robbinsdale Plan; provided review schedule for Robbinsdale Plan to Chair Welch.

James P. Herbert, Principal Engineer/Scientist 4.0 hours @ \$140.00 per hour	\$ 560.00
Karen L. Chandler, Senior Consultant 6.3 hours @ \$140.00 per hour	\$ 882.00
Sterling G. Williams, Senior Engineer/Scientist 2.7 hours @ \$95.00 per hour	\$ 256.50
Subtotal, Municipal Plans	\$ 1,698.50

TOTAL ENGINEERING \$ **37,039.54**

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,

Technicians/Administrative	\$ 36.00
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Expenses (B&W/color copies/postage)	\$ 238.34
Catering (BCWMC meeting date)	\$ <u>-0-</u>
TOTAL SECRETARIAL SERVICES EXPENSES	\$ 274.34

WATERSHED OUTLET MONITORING PROGRAM (WOMP)

WOMP

Coordination with Met Council regarding rating curve at WOMP station.

Christopher Bonick, Senior Engineer/Scientist 0.5 hours @ \$105.00 per hour	\$ <u>52.50</u>
Subtotal, Public Relations/WOMP	\$ 52.50
TOTAL WOMP	\$ 52.50

CAPITAL IMPROVEMENT PROJECTS

RESOURCE MANAGEMENT PLAN (RMP)

Coordination with Corps of Engineers (COE) regarding final RMP report; attended meeting with COE; prepared memorandum for BCWMC.

Leonard J. Kremer, Principal Engineer/Scientist 6.3 hours @ \$160.00 per hour	\$ 1,008.00
Karen L. Chandler, Senior Consultant 1.2 hours @ \$140.00 per hour	\$ 168.00
Jeffrey T. Lee, Senior Consultant 6.1 hours @ \$130.00 per hour	\$ 793.00
Expenses (mileage)	\$ <u>19.50</u>
Subtotal, Resource Management Plan	\$ 1,988.50
TOTAL CAPITAL IMPROVEMENT PROJECTS	\$ 1,988.50

TMDL STUDIES

MEDICINE LAKE TMDL

Coordination regarding Medicine Lake TMDL.

Leonard J. Kremer, Principal Engineer/Scientist 0.5 hours @ \$160.00 per hour	\$ 208.00
Subtotal, Medicine Lake TMDL	\$ 208.00

SWEENEY LAKE TMDL

Coordination regarding Sweeney Lake TMDL; reviewed MPCA comments on draft TMDL; communication with Ron Leaf; preparation for meeting with MPCA.

Leonard J. Kremer, Principal Engineer/Scientist 3.5 hours @ \$160.00 per hour	\$ 560.00
Karen L. Chandler, Senior Consultant 1.8 hours @ \$140.00 per hour	\$ 252.00
Keith M. Pilgram, Senior Engineer/Scientist 1.0 hours @ \$125.00 per hour	\$ 125.00
Subtotal, Sweeney Lake TMDL	\$ 937.00

WIRTH LAKE TMDL

Coordination regarding Wirth Lake TMDL schedule.

Karen L. Chandler, Senior Consultant 0.5 hours @ \$140.00 per hour	\$ 70.00
Subtotal, Wirth Lake TMDL	\$ 70.00

E-COLI SAMPLING

Coordination regarding E-Coli sampling and laboratory analysis; summarized data and prepared graphs and memorandum; prepared revised technical memorandum regarding 2009 sampling program and results.

Leonard J. Kremer, Principal Engineer/Scientist 1.5 hours @ \$160.00 per hour	\$ 240.00
Karen L. Chandler, Senior Consultant 5.8 hours @ \$140.00 per hour	\$ 812.00
Margaret R Rattei, Senior Consultant 8.1 hours @ \$115.00 per hour	\$ 931.50
Michael B. Strong, Engineer/Scientist 0.6 hours @ \$70.00 per hour	\$ 42.00

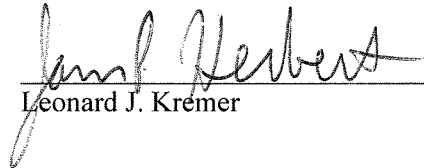
Subtotal, E-coli Sampling \$ 2,025.50

TOTAL TMDL STUDIES \$ 3,240.50

SUMMARY TOTALS

Total Engineering	\$ 37,039.54
Total Secretarial Services Expenses	\$ 274.34
Total Public Relations	\$ 52.50
Total Capital Improvement Projects	\$ 1,988.50
Total TMDL Studies	<u>\$ 3,240.50</u>
TOTAL PAYABLE	\$ 42,595.38

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