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engineering and environmental consultants

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

Page # 1
Invoice # 23270051-2014-12
Project # 23/27-0051
Client # 59
February 9, 2015

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
December 27, 2014 through January 30, 2015

ENGINEERING

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, administrator, watershed communities and interested citizens; review and summarize allowable flood level increase requirements, including MDNR’s “No-Rise” certificate requirements; provide information to administrator regarding MPCA Clean Water Partnerships grant; provide BCWMC XP-SWMM model and subwatersheds to Minneapolis staff; communications with administrator and internal staff regarding 2016 budgeting; and review 2015 project budgets.

Karen L. Chandler, Consultant/Advisor		
8.0 hours @ \$160.00 per hour.....	\$	1,280.00
Gregory J. Wilson, Engineer/Scientist/Specialist III		
1.0 hours @ \$150.00 per hour.....	\$	150.00
Jennifer A. Koehler, Engineer/Scientist/Specialist II		
2.5 hours @ \$120.00 per hour.....	\$	300.00
Candice M. Kantor, Engineer/Scientist/Specialist II		
1.0 hours @ \$95.00 per hour.....	\$	95.00
<i>Subtotal, Technical Services.....</i>	<i>\$</i>	<i>1,825.00</i>

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Communication with Westwood regarding Minneapolis development and provide old tunnel drawings; communications with Alliant regarding TH 100/55 MnDOT project in Golden Valley; communications with WSB regarding project along Bassett Creek in Minneapolis and BCWMC floodplain requirements; and coordination with Pierce Pini & Associates regarding project site.

James P. Herbert, Principal Engineer/Scientist		
3.3 hours @ \$175.00 per hour.....	\$	577.50
Karen L. Chandler, Consultant/Advisor		
0.4 hours @ \$160.00 per hour.....	\$	64.00

Candice M. Kantor, Engineer/Scientist/Specialist II
1.3 hours @ \$95.00 per hour\$ 123.50
Subtotal, Preliminary Site Review/Correspondence\$ 765.00

MONTHLY MEETING PREPARATION

Communications/coordination with administrator regarding draft/final agenda and meeting packet for January 2015 meeting; review/edit draft December meeting minutes; prepare for January Commission meeting, including setting up and attending pre-meeting conference call with Chair de Lambert and administrator to review meeting agenda; provide grant tracking information to administrator; communications with internal staff and administrator regarding follow-up tasks from January Commission meeting and upcoming meeting agenda items.

James P. Herbert, Principal Engineer/Scientist
13.6 hours @ \$175.00 per hour.....\$ 2,380.00
Karen L. Chandler, Consultant/Advisor
18.3 hours @ \$160.00 per hour.....\$ 2,928.00
Technicians/Administrative\$ 302.00
Expenses (Cisco Webex)\$ 18.25
Subtotal, Monthly Meeting Preparation.....\$ 5,628.25

WETLAND ISSUES

Prepare WCA 2014 annual reporting form and submit to BWSR.

Karen S. Wold, Engineer/Scientist/Specialist II
0.3 hours @ \$115.00 per hour.....\$ 34.50
Subtotal, Wetland Issues.....\$ 34.50

TAC PREPARATION

Communications with administrator regarding February TAC meeting and agenda; prepare for February TAC meeting.

Karen L. Chandler, Consultant/Advisor
2.2 hours @ \$160.00 per hour.....\$ 352.00
Subtotal, TAC Preparation\$ 352.00

Subtotal Technical Services.....\$ **8,604.75**

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 do not require application fee.

I-494 Corridor Project (2014-05)

Review grading, drainage, and erosion control plans for project, communication with applicant; review final Medicine Lake TMDL wasteload allocations for MnDOT, prepare memo for January Commission meeting, and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 6.5 hours @ \$175.00 per hour.....	\$ 1,137.50
Karen L. Chandler, Consultant/Advisor 0.8 hours @ \$160.00 per hour.....	\$ 128.00
Gregory J. Wilson, Engineer/Scientist/Specialist III 0.5 hours @ \$150.00 per hour.....	\$ 75.00
Candice M. Kantor, Engineer/Scientist/Specialist II 7.7 hours @ \$95.00 per hour	\$ <u>731.50</u>
<i>Subtotal, I-494 Corridor Project.....</i>	<i>\$ 2,072.00</i>

Laurel Pond Residential Development (2014-28)

Coordinate with applicant regarding comments and revised plans.

James P. Herbert, Principal Engineer/Scientist 0.8 hours @ \$175.00 per hour.....	\$ <u>140.00</u>
<i>Subtotal, Laurel Pond Residential Development</i>	<i>\$ 140.00</i>

TH 55 and Winnetka (2014-29)

Review grading, drainage, and erosion control plans for project, communication with applicant; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 2.0 hours @ \$175.00 per hour.....	\$ 350.00
Candice M. Kantor, Engineer/Scientist/Specialist II 2.9 hours @ \$95.00 per hour	\$ <u>275.50</u>
<i>Subtotal, TH 55 and Winnetka</i>	<i>\$ 625.50</i>

Blue Line LRT/Bottineau Transitway (2014-30)

Respond to questions and requests from SRF regarding floodplain, BCWMC flood profile, and XP-SWMM modeling; and communications with Golden Valley staff regarding the floodplain and floodplain model.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$175.00 per hour.....	\$ 87.50
Karen L. Chandler, Consultant/Advisor 1.8 hours @ \$160.00 per hour.....	\$ 288.00
Jennifer A. Koehler, Engineer/Scientist/Specialist II 0.5 hours @ \$120.00 per hour.....	\$ <u>60.00</u>
<i>Subtotal, Blue Line LRT/Bottineau Transitway</i>	<i>\$ 435.50</i>

Golden Valley 2015 PMP (2014-30)

Plat review set up for project.

Technicians/Administrative	\$ <u>42.50</u>
<i>Subtotal, Golden Valley 2015 PMP.....</i>	<i>\$ 42.50</i>
<i>Subtotal Plat Review.....</i>	<i>\$ 3,315.50</i>

COMMISSION AND TAC MEETINGS

Attend January 15th Commission meeting.

Karen L. Chandler, Consultant/Advisor 2.9 hours @ \$160.00 per hour	\$ 464.00
<i>Subtotal, Commission and TAC Meetings</i>	<i>\$ 464.00</i>

WATER QUALITY/MONITORING

Respond to Alternate Commissioner Tobelmann's inquiry regarding news article about using algae to improve water quality and communications with administrator; Twin and Sweeney Lake 2014 monitoring: perform trend analyses for Twin and Sweeney Lakes; create isopleth graphs of water quality data; analyses of Sweeney Lake north and south basin zooplankton samples; and prepare Sweeney and Twin Lake monitoring report.

Henry M. Runke, Principal Engineer/Scientist 0.5 hours @ \$175.00 per hour.....	\$ 87.50
Karen L. Chandler, Consultant/Advisor 3.8 hours @ \$160.00 per hour.....	\$ 608.00
Gregory J. Wilson, Engineer/Scientist/Specialist III 1.0 hours @ \$150.00 per hour.....	\$ 150.00
Keith M. Pilgrim, Engineer/Scientist/Specialist III 2.0 hours @ \$150.00 per hour.....	\$ 300.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 115.2 hours @ \$125.00 per hour.....	\$ 14,400.00
Evan G. Christianson, Engineer/Scientist/Specialist III 4.6 hours @ \$130.00 per hour.....	\$ 598.00
Christopher J. Bonick, Engineer/Scientist/Specialist II 4.0 hours @ \$115.00 per hour.....	\$ 460.00
Joshua R. Vosejka, Engineer/Scientist/Specialist I 0.3 hours @ \$75.00 per hour	\$ 22.50
Technicians/Administrative	\$ 1,659.00
<i>Subtotal, Water Quality/Monitoring.....</i>	<i>\$ 18,285.00</i>

WATER QUANTITY

Measure and review lake level elevations as part of the lake-gauging program.

Technicians/Administrative	\$ 405.00
Expenses (Mileage/2WD vehicle).....	\$ 54.90
<i>Subtotal, Water Quantity</i>	<i>\$ 459.90</i>

FLOOD CONTROL PROJECT INSPECTIONS

Annual Flood Control Project Inspection

Make final edits to annual Flood Control Project inspection report; prepare cover memo for January Commission packet; prepare and send letters to each city regarding inspection results; follow-up with administrator regarding questions about the inspection; and communications with administrator regarding maintenance of Flood Control Project features.

James P. Herbert, Principal Engineer/Scientist 12.4 hours @ \$175.00 per hour.....	\$ 2,170.00
Karen L. Chandler, Consultant/Advisor 3.2 hours @ \$160.00 per hour.....	\$ 512.00
Technicians/Administrative	\$ <u>346.00</u>
<i>Subtotal, Annual Flood Control Project Inspection.....</i>	<i>\$ 3,028.00</i>

Double Box Culvert Inspection

Develop safety plan and attachments for Bassett Creek tunnel inspection, attend pre-inspection safety meeting; perform Bassett Creek tunnel inspection (right and left tunnel); and coordination with Minneapolis staff regarding equipment and supplies. *Note: This inspection was performed in conjunction with the City of Minneapolis, who was responsible for inspection and reporting costs in excess of approximately \$10,000. The City desired a more detailed inspection based on NASSCO inspection criteria consistent with the City's current inspection program.*

Joseph A. Welna, Engineer/Scientist/Specialist II 21.6 hours @ \$100.00 per hour.....	\$ 2,160.00
Megan T. Smaby, Engineer/Scientist/Specialist I 22.2 hours @ \$70.00 per hour.....	\$ 1,554.00
Samuel O. Redinger, Engineer/Scientist/Specialist I 19.8 hours @ \$65.00 per hour.....	\$ 1,287.00
Technicians/Administrative	\$ 1,570.00
Expenses (Equipment and Mileage)	\$ <u>1,426.00</u>
<i>Subtotal, Double Box Culvert Inspection</i>	<i>\$ 7,997.00</i>
<i>Subtotal Flood Control Project Inspections.....</i>	<i>\$ 11,025.00</i>

MUNICIPAL PLAN REVIEW

Review MWMO responses to BCWMC comments regarding MWMO plan amendment.

Karen L. Chandler, Consultant/Advisor 0.2 hours @ \$160.00 per hour.....	\$ <u>32.00</u>
<i>Subtotal, Municipal Plan Review</i>	<i>\$ 32.00</i>

TOTAL ENGINEERING\$ 42,186.15

SECRETARIAL SERVICES

SECRETARIAL SERVICES EXPENSES

Expenses (Copies)\$ 3.50
TOTAL SECRETARIAL SERVICES EXPENSES.....\$ 3.50

PLANNING

TOTAL PLANNING (Next Generation Plan)\$ 0.00

PLANNING (Funded through Flood Control Project Long-term Maintenance Funds)

TOTAL PLANNING (Maintenance Funds).....\$ 0.00

ANNUAL REPORT

TOTAL ANNUAL REPORT.....\$ 0.00

PUBLIC COMMUNICATIONS

TOTAL PUBLIC COMMUNICATIONS\$ 0.00

WEBSITE

TOTAL WEBSITE.....\$ 0.00

WATERSHED OUTLET MONITORING PROGRAM (WOMP)

WATERSHED OUTLET MONITORING PROGRAM (WOMP)

Download WOMP station flow data for 2014 and review data for accuracy; setup 2015 download files for Loggernet datalogger software connection.

Christopher J. Bonick, Engineer/Scientist/Specialist II
6.0 hours @ \$115.00 per hour.....\$ 690.00
Subtotal, Watershed Outlet Monitoring Program.....\$ 690.00
TOTAL WOMP.....\$ 690.00

CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)

CEDAR LAKE ROAD TO GOLDEN VALLEY ROAD, 2012 MAIN STEM

BWSR grant administration: update and format grant tracking spreadsheet with 2013 and 2014 expenses; prepare progress report and submit in eLINK; communications with BWSR staff regarding grant reporting attachments; communications with administrator; data entry and final grant reporting into eLink.

Karen L. Chandler, Consultant/Advisor	
1.4 hours @ \$160.00 per hour.....	\$ 224.00
Amy R. Anderson, Engineer/Scientist/Specialist I	
13.0 hours @ \$90.00 per hour.....	\$ 1,170.00
<i>Subtotal, Cedar Lake Road to Golden Valley Rd.....</i>	<i>\$ 1,394.00</i>

TOTAL CAPITAL IMPROVEMENTS PROJECTS (Tax Levy)\$ 1,394.00

CAPITAL IMPROVEMENT PROJECTS (Funded through Flood Control Project Long-term Maintenance Funds)

**TOTAL CAPITAL IMPROVEMENT PROJECTS
 (Maintenance Funds)\$ 0.00**

TMDL WORK

TMDL IMPLEMENTATION REPORTING

P8 Model Update: Revise P8 modeling to address comments/suggestions from 2013 and incorporate updates in Golden Valley, Minnetonka and Minneapolis, including DeCola Ponds, Honeywell Pond, Hidden Lakes, Sweeney/Twin Lake, Crane Lake and the main stem Bassett Creek watersheds; update watershed delineation and pond characteristics; and communications/coordination with city staff.

TMDL Implementation Reporting: Compile TMDL wasteload allocations/implementation plan practices and SWPPP compliance schedule for each MS4.

Gregory J. Wilson, Engineer/Scientist/Specialist III	
84.3 hours @ \$150.00 per hour.....	\$ 12,645.00
Jennifer A. Koehler, Engineer/Scientist/Specialist II	
1.8 hours @ \$120.00 per hour.....	\$ 216.00
Joshua R. Vosejпка, Engineer/Scientist/Specialist I	
7.7 hours @ \$75.00 per hour	\$ 577.50
<i>Subtotal, TMDL Studies.....</i>	<i>\$ 13,438.50</i>

TOTAL TMDL STUDIES\$ 13,438.50

SUMMARY TOTALS

Total Engineering	\$ 42,186.15
Total Secretarial Services Expenses	\$ 3.50
Total Planning (Next Generation Plan)	\$ 0.00
Total Planning (Maintenance Funds)	\$ 0.00
Total Annual Report/Website/Public Communications	\$ 0.00
Total WOMP	\$ 690.00
Total Capital Improvement Projects (Tax Levy)	\$ 1,394.00
Total Capital Improvement Projects (Maintenance Funds)	\$ 0.00
Total TMDL Studies	\$ 13,438.50
TOTAL PAYABLE	\$ 57,712.15

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



James P. Herbert