Bassett Creek WMO 7800 Golden Valley Road Golden Valley, MN 55427 Page # 1 Invoice # 23270051-2013 -5 Project # 23/27-0051 Client # 59 July 3, 2013

Invoice of Account with BARR ENGINEERING COMPANY

For professional services during the period of June 1, 2013 through June 28, 2013

ENGINEERING

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, administrator, recording administrator, watershed communities and interested citizens; coordination with administrator regarding post-meeting tasks; communications with administrator regarding Hennepin County meeting; review and edit roles and responsibilities document; attended BWSR training for new eLINK system; reviewed historical project /development review costs and provided recommendation to administrator regarding 2014 fees; reviewed 2010 - 2013 budgets and financial reporting for flood control project inspections and watershed inspections, reviewed individual project review costs, and call to administrator as part of 2014 budgeting process; emails from Golden Valley staff regarding Sweeney Lake outlet modifications; communications with Hennepin County staff regarding Medicine Lake dam.

Leonard J. Kremer, Principal Engineer/Scientist 4.5 hours @ \$180.00 per hour\$	810.00
James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$160.00 per hour\$	160.00
Karen L. Chandler, Engineer/Scientist/Specialist III 9.1 hours @ \$150.00 per hour\$	1,365.00
Amy R. Mikus, Engineer/Scientist/Specialist I 1.0 hours @ \$85.00 per hour\$	85.00
Technicians/Administrative\$_	1,013.00
Subtotal, Technical Services\$	3,433.00

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Telephone conversations regarding proposed developments and review requirements; provided watershed hydraulic information, flood profiles and BCWMC development requirements to applicants; revised 2013 active project list; phone call from GVCC regarding proposed pedestrian bridge; phone conversation regarding preliminary proposed site expansion in Plymouth; coordination

regarding a proposed pedestrian bridge in Golden Valley; attended site meeting with Plymouth and SRF staff regarding trail improvements along West Medicine Lake Drive and Medicine Lake shoreline; phone call with Kalio Engineering regarding proposed improvements; provided Bassett Creek tunnel figure to applicant.

James P. Herbert, Principal Engineer/Scientist 6.3 hours @ \$160.00 per hour\$	1,008.00
Joshua R. Vosejpka, Engineer/Scientist/Specialist I 0.7 hours @ \$85.00 per hour\$	45.50
Technicians/Administrative\$	336.00
Expenses (Mileage)	14.13
Subtotal, Preliminary Site Review/Correspondence\$	1,403.63

MONTHLY MEETING PREPARATION

Reviewed draft BCWMC meeting minutes, agenda and packet materials and discussed comments with administrator; internal meetings, and communications/coordination with administrator and recording administrator regarding agenda, to-do list and meeting packet for June 2013 meeting; premeeting conference call with administrator; communications with administrator regarding actions for agenda items; prepared preliminary cost estimate for monitoring flow on North Branch of Bassett Creek and for next phase of XP-SWMM model; reviewed/edited steering committee meeting notes and Commission meeting minutes and emailed to administrator; communications with administrator and internal meetings regarding flood control project maintenance, discussion regarding July meeting agenda items.

James P. Herbert, Principal Engineer/Scientist 7.8 hours @ \$160.00 per hour\$	1,248.00
Janna M. Kieffer, Principal Engineer/Scientist 0.6 hours @ \$125.00 per hour\$	75.00
Karen L. Chandler, Engineer/Scientist/Specialist III 17.1 hours @ \$150.00 per hour\$	2,565.00
Rita W. Weaver, Engineer/Scientist/Specialist II 1.3 hours @ \$120.00 per hour\$	156.00
Christopher J. Bonick, Engineer/Scientist/Specialist II 6.5 hours @ \$110.00 per hour\$	715.00
Technicians/Administrative\$_	241.00
Subtotal, Monthly Meeting Preparation\$	5,000.00

TAC MEETING PREPARATION

Communications with administrator regarding June TAC agenda; prepared discussion/handouts for June TAC meeting regarding P8 modeling; draft XP SWMM and P8 model technical memos for TAC meeting and distributed to TAC; prepared for TAC meeting; call to administrator; reviewed and edited administrator's draft TAC memo.

James P. Herbert, Principal Engineer/Scientist	
3.0 hours @ \$160.00 per hour\$	480.00

Karen L. Chandler, Engineer/Scientist/Specialist III 9.5 hours @ \$150.00 per hour\$	1,425.00
Gregory J. Wilson, Engineer/Scientist/Specialist III 8.5 hours @ \$145.00 per hour\$	1,232.50
Rita W. Weaver, Engineer/Scientist/Specialist II 3.9 hours @ \$120.00 per hour\$	468.00
John E. McCarthy, Engineer/Scientist/Specialist I 2.6 hours @ \$80.00 per hour\$_	208.00
Subtotal, TAC Meeting Preparation\$	3,813.50
Subtotal Technical Services\$	13,650.13

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.

Wirth Lake 2010 Site Improvements

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Fragion	control	inchection
LIOSIOII	Common	inspection.

Technicians/Administrative <u>\$</u>	68.00
Subtotal, Wirth Lake 2010 Site Improvements\$	68.00

CP Rail Bridge Replacement

Erosion control inspection.

Technicians/Administrative	<u>\$</u>	68.00
Subtotal, CP Rail Bridge Replacement	\$	68.00

10600 Wayzata Blvd Cleanup

Erosion control inspection.

Technicians/Administrative <u>\$</u>	42.50
Subtotal. 10600 Wavzata Blvd Cleanup\$	42.50

Hazelden Site Expansion

Erosion control inspection.

Technicians/Administrative	93.50
Subtotal, Hazelden Site Expansion\$	93.50

West Health Addition

Erosion control inspection.

Technicians/Administrative\$	68.00
Subtotal, West Health Addition\$	68.00
Cornerstone Auto Resource	
Erosion control inspection.	
Technicians/Administrative\$	42.50
Subtotal, Cornerstone Auto Resource\$	42.50
CP Rail Bridge Replacement MP 2.12	
Erosion control inspection.	
Technicians/Administrative <u>\$</u>	68.00
Subtotal, CP Rail Bridge Replacement MP 2.12\$	68.00
The Hills of Plymouth Prof Bldg	
Erosion control inspection.	
Technicians/Administrative	59.50
Subtotal, The Hills of Plymouth Prof Bldg\$	59.50
Boone Ave Convenience Ctr and Retail	
Reviewed revised grading, drainage and erosion control plans and prepared letter of of Golden Valley.	approval to
Rita W. Weaver, Engineer/Scientist/Specialist II	468.00
3.9 hours @ \$120.00 per hour\$ Technicians/Administrative\$	468.00 24.00
Subtotal, Boone Ave Convenience Ctr and Retail\$	492.00
Turtle Lake Drainage Improvement Erosion control inspection.	
•	69.00
Technicians/Administrative\$ Subtotal, Turtle Lake Drainage Improvement\$	68.00 68.00
	00.00
Sunset Hill Element 2013 Bldg Add'n Reno Erasion control inspection	
Erosion control inspection.	
Technicians/Administrative <u>\$</u>	68.00
Subtotal, Sunset Hill Element 2013 Bldg Add'n Reno\$	68.00

Greenwood Elementary School

Erosion control inspection.

Technicians/Administrative	\$	68.00
Subtotal, Greenwood Elementary School	\$	68.00
I-GV-461 Relief Force Main		
Erosion control inspection.		
Technicians/Administrative	\$	68.00
Subtotal, I-GV-461 Relief Force Main	\$	68.00
Motorwerks MINI (2013-3)		
Erosion control inspection.		
Technicians/Administrative	\$	84.00
Subtotal, Motorwerks MINI (2013-3)	\$	84.00
Hennepin County 911 Facility (2013-7)		
Project closeout.		
Technicians/Administrative	\$	16.00
Subtotal, Hennepin County 911 Facility	\$	16.00
Kohl's at Rockford Plaza (2013-8)		
Set up inspection files for project in the City of Plymouth.		
Technicians/Administrative	<u>\$</u>	68.00
Subtotal, Kohl's at Rockford Plaza	\$	68.00
Sunshine Factory (2013-10)		
Set up inspection files for project in the City of Plymouth.		
Technicians/Administrative	\$	42.50
Subtotal, Sunshine Factory	\$	42.50
HOM Furniture Dock Expansion (2013-11)		
Set up inspection files for project in the City of Plymouth.		
Technicians/Administrative	\$	48.00
Subtotal, HOM Furniture Dock Expansion	\$	48.00
Plymouth Yard Waste Site Improvements (2013-13)		
Set up inspection files for project in the City of Plymouth.		
Rita W. Weaver, Engineer/Scientist/Specialist II 0.3 hours @ \$120.00 per hour	\$	36.00

Technicians/Administrative	<u>\$</u>	40.00
Subtotal, Plymouth Yard Waste Site Improvements	. \$	76.00
Arcata Apartments (2013-14)		
Reviewed revised submittal from applicant.		
Rita W. Weaver, Engineer/Scientist/Specialist II 0.2 hours @ \$120.00 per hour	Φ.	24.00
Subtotal, Arcata Apartments (2013-14)	12000	24.00 24.00
	. Ψ	27.00
Ridgedale Mall Macy's Expansion (2013-15)		
Telephone conversations and emails with applicant; communications with City revised grading, drainage and erosion control plans and operating plan for NE v prepared letter of approval to the City of Minnetonka.		
James P. Herbert, Principal Engineer/Scientist 3.5 hours @ \$160.00 per hour	.\$	560.00
Karen L. Chandler, Engineer/Scientist/Specialist III 0.2 hours @ \$150.00 per hour	.\$	30.00
Rita W. Weaver, Engineer/Scientist/Specialist II 6.1 hours @ \$120.00 per hour	.\$	732.00
Margaret R. Ratttei, Engineer/Scientist/Specialist II		
0.7 hours @ \$120.00 per hour		84.00
Technicians/Administrative	. <u>\$</u>	93.50
Subtotal, Ridgedale Mall Macy's Expansion	. \$	1,499.50
West Health TCU (2013-16)		
Coordination with applicant and City staff; reviewed grading, drainage and eros prepared letter of approval to City of Plymouth.	sion o	control plans;
James P. Herbert, Principal Engineer/Scientist 1.5 hours @ \$160.00 per hour	.\$	240.00
Rita W. Weaver, Engineer/Scientist/Specialist II 9.1 hours @ \$120.00 per hour	.\$	1,092.00
Technicians/Administrative		68.00
Subtotal, West Health TCU		1,400.00
33 rd Avenue Street Reconstruction (2013-17)		
Coordination with applicant and City staff; reviewed grading, drainage and eros prepared letter of approval to City of Robbinsdale.	ion c	control plans;
James P. Herbert, Principal Engineer/Scientist 0.8 hours @ \$160.00 per hour	.\$	128.00

Rita W. Weaver, Engineer/Scientist/Specialist II		
3.9 hours @ \$120.00 per hour	\$	468.00
Technicians/Administrative	<u>\$</u> _	84.00
Subtotal, 33 rd Avenue St. Reconstruction (2013-17)	\$	680.00
Crystal Lake Heights Reconstruction (2013-18)		
Coordination with applicant and City staff; reviewed grading, drainage and exprepared letter of approval to City of Robbinsdale.	rosion	control plans;
James P. Herbert, Principal Engineer/Scientist 0.7 hours @ \$160.00 per hour	\$	112.00
Rita W. Weaver, Engineer/Scientist/Specialist II 3.9 hours @ \$120.00 per hour	\$	468.00
Technicians/Administrative	<u>\$</u>	16.00
Subtotal, Crystal Lake Heights Reconstruction (2013-18)	\$	596.00
Tile Shop Corp Remodel (2013-19)		
Coordination with applicant and City staff; reviewed grading, drainage and en prepared letter of approval to City of Plymouth.	rosion	control plans;
James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$160.00 per hour	\$	160.00
Rita W. Weaver, Engineer/Scientist/Specialist II 7.4 hours @ \$120.00 per hour	\$	888.00
Technicians/Administrative	<u>\$</u>	40.00
Subtotal, Tile Shop Corp Remodel (2013-19)	\$	1,088.00
Subtotal Plat Review	\$	6,896.00
COMMISSION AND TAC MEETINGS		
Attended June 13, 2013 watershed summit, June 20, 2013 Commission meets Steering Committee meeting and June 6, 2013 TAC meeting.	ing, Ju	ine 24, 2013
Karen L. Chandler, Engineer/Scientist/Specialist III 11.6 hours @ \$150.00 per hour	\$	1,740.00
Gregory J. Wilson, Engineer/Scientist/Specialist III 3.0 hours @ \$145.00 per hour	\$	435.00
Rita W. Weaver, Engineer/Scientist/Specialist II 1.5 hours @ \$120.00 per hour	\$	180.00
Expenses (Mileage)	<u>\$</u>	17.52
Subtotal, Commission Meetings	\$	2,372.52

SURVEYS AND STUDIES

Reviewed draft FEMA maps, compared flood elevations to BCWMC flood elevations, and preparation of letter to FEMA regarding review; coordination with administrator regarding watershed tour including providing write-ups and photographs for tunnel stop, as requested by administrator; coordinated with administrator regarding tour map.

Leonard J. Kremer, Principal Engineer/Scientist 5.0 hours @ \$180.00 per hour\$	900.00
James P. Herbert, Principal Engineer/Scientist 4.2 hours @ \$160.00 per hour\$	672.00
Karen L. Chandler, Engineer/Scientist/Specialist III 3.7 hours @ \$150.00 per hour\$	555.00
Rita W. Weaver, Engineer/Scientist/Specialist II 0.7 hours @ \$120.00 per hour\$	84.00
Jeffrey D. Weiss, Engineer/Scientist/Specialist II 2.0 hours @ \$110.00 per hour\$	220.00
Joshua R. Vosejpka, Engineer/Scientist/Specialist I 1.8 hours @ \$85.00 per hour\$	117.00
John E. McCarthy, Engineer/Scientist/Specialist I 0.4 hours @ \$80.00 per hour\$	32.00
Technicians/Administrative	38.00
Subtotal, Surveys and Studies\$	2,618.00

WATER QUALITY MONITORING

Preparation for 2013 monitoring program including Northwood Lake, and North and South Rice Ponds; analytical result entry and verification in EQuIS; responded to data request from MPCA consultant regarding Metro Chloride Management Plan; internal communications regarding fish survey vendors; performed June aquatic plant surveys at Northwood Lake and North and South Rice Pond.

Karen L. Chandler, Engineer/Scientist/Specialist III 1.7 hours @ \$150.00 per hour\$	255.00
Gregory J. Wilson, Engineer/Scientist/Specialist III 2.5 hours @ \$145.00 per hour\$	362.50
Joshua R. Vosejpka, Engineer/Scientist/Specialist I 0.5 hours @ \$85.00 per hour\$	32.50
Technicians/Administrative\$	1,082.00
Expenses (Mileage/2WD vehicle/turbidimeter/canoe/ water quality meter)\$_	147.86
Subtotal, Water Quality Monitoring\$	1,879.86

WATER QUANTITY

Measured and reviewed lake level elevations as part of the lake-gauging program; prepared email to TAC requesting flooding information during June storm events; prepared email to Commissioner Hoshal regarding Medicine Lake level.

James P. Herbert, Principal Engineer/Scientist 2.1 hours @ \$160.00 per hour\$	336.00
Karen L. Chandler, Engineer/Scientist/Specialist III 1.5 hours @ \$150.00 per hour\$	225.00
Technicians/Administrative\$	892.50
Expenses (Mileage/2WD vehicle)	103.89
Subtotal, Water Quantity\$	1,557.39

WATERSHED INSPECTION

Performed erosion control inspections; prepared letter of recommendations and distributed to each city.

James P. Herbert, Principal Engineer/Scientist	
1.0 hours @ \$160.00 per hour\$	160.00
Technicians/Administrative\$	535.50
Expenses (Mileage/2WD vehicle)	166.28
Subtotal, Watershed Inspection\$	861.78

TOTAL ENGINEERING......\$ 29,835.68

SECRETARIAL SERVICES

SECRETARIAL SERVICES EXPENSES

Administrative expenses requested by Amy Herbert including: copies, color copies for meeting packet; postage; copied and assembled packet materials for June 20, 2013 meeting.

Technicians/Administrative\$	548.00
Expenses (B&W/color copies/postage)\$_	154.06
TOTAL SECRETARIAL SERVICES EXPENSES	702.06

PLANNING

WATERSHED-WIDE XP-SWMM CALIBRATION

Performed calibration to Wisconsin Avenue structure and WOMP station data.

Rita W. Weaver, Engineer/Scientist/Specialist II 0.4 hours @ \$120.00 per hour\$	48.00
John E. McCarthy, Engineer/Scientist/Specialist I 5.5 hours @ \$80.00 per hour\$_	440.00
Subtotal, Watershed-wide XP-SWMM Model\$	488.00
WATERSHED-WIDE P8 WATER QUALITY MODEL	
Final model calibration.	
John E. McCarthy, Engineer/Scientist/Specialist I 4.3 hours @ \$80.00 per hour\$_	344.00
Subtotal, Watershed-wide P8 Water Quality Model\$	344.00
NEXT GENERATION PLAN	
Coordination with administrator; reviewed issues for summit; prepared for June 24 prioritization workshop and reviewed/edited meeting notes; attended meeting with prepare for July 1 Steering Committee goal-setting meeting; reviewed goals from organization plans; prepared document listing BCWMC 2004 plan goals and goals watershed organizations' plans.	administrator to other watershed
Karen L. Chandler, Engineer/Scientist/Specialist III 8.2 hours @ \$150.00 per hour\$	1,230.00
Sterling G. Williams, Engineer/Scientist/Specialist II 5.5 hours @ \$110.00 per hour\$	605.00
Candice M. Kantor, Engineer/Scientist/Specialist I 1.5 hours @ \$80.00 per hour\$_	120.00
Subtotal, Next Generation Plan\$	1,955.00
TOTAL PLANNING\$	2,787.00
ANNUAL REPORT	
TOTAL ANNUAL REPORT\$	0.00
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PUBLIC COMMUNICATIONS	
TOTAL PUBLIC COMMUNICATIONS\$	0.00
WEBSITE	
TOTAL WEBSITE\$	0.00

WATERSHED OUTLET MONITORING PROGRAM (WOMP)

WATERSHED OUTLET MONITORING PROGRAM (WOMP)

Coordination with Met Council staff regarding use of dye test for high flow measurements at WOMP station.

TOTAL WOMP	165.00
Subtotal, Watershed Outlet Monitoring Program\$	165.00
1.5 hours @ \$110.00 per hour\$	165.00
Christopher J. Bonick, Engineer/Scientist/Specialist II	

CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)

WIRTH LAKE OUTLET MODIFICATION (WTH-4)

Attended BWSR training for new eLINK system for obtaining project reimbursement.

Amy R. Mikus, Engineer/Scientist/Specialist I 1.0 hours @ \$85.00 per hour\$	85.00
Subtotal, Wirth Lake Outlet Modification (WTH-4)\$	85.00

TWIN LAKE ALUM TREATMENT PROJECT (TW-2)

Reviewed information from Commissioner Hoshal regarding gizzard shad in Twin Lake; internal meeting regarding impact of gizzard shad on water quality; coordination with administrator regarding letter to Hidden Valley residents regarding hearing and alum treatment concerns; attended June 4 Hennepin County committee meeting regarding major plan amendment; prepared memo regarding major plan amendment for June Commission meeting, including preparation of draft letter to BWSR and updating Table 12-2 and plan text; prepared and emailed major plan amendment request to BWSR.

Karen L. Chandler, Engineer/Scientist/Specialist III 5.8 hours @ \$150.00 per hour\$	870.00
Ronald M. Koth, Engineer/Scientist/Specialist II 0.5 hours @ \$110.00 per hour\$	55.00
Kevin D. Menken, Engineer/Scientist/Specialist II 0.5 hours @ \$105.00 per hour\$	52.50
Expenses (Parking)	24.00
Subtotal, Twin Lake Alum Treatment Project (TW-2)\$	1,001.50

CEDAR LAKE ROAD TO GOLDEN VALLEY ROAD, 2012 MAIN STEM

Coordination with MPRB staff; attended June 4 meeting with MPRB and its consultant to review preliminary plans and to perform a site visit; follow-up discussion and email regarding MPRB meeting; attended BWSR training for new eLINK system for obtaining project reimbursement.

James P. Herbert, Principal Engineer/Scientist

0.5 hours @ \$160.00 per hour\$	80.00
Karen L. Chandler, Engineer/Scientist/Specialist III 4.9 hours @ \$150.00 per hour\$	735.00
Jeffrey D. Weiss, Engineer/Scientist/Specialist II 6.2 hours @ \$110.00 per hour\$	682.00
Amy R. Mikus, Engineer/Scientist/Specialist I 1.0 hours @ \$85.00 per hour\$	85.00
Expenses (Mileage)\$	6.22
Subtotal, Cedar Lk Rd to Golden Valley Rd, 2012 Main Stem\$	1,588.22

SCHAPER POND ENHANCEMENT

Communications with administrator; attended preliminary meeting with Golden Valley staff regarding Schaper Park issues; prepared for and attended June 4 Hennepin County committee meeting regarding major plan amendment; prepared memo regarding major plan amendment for June Commission meeting, including preparation of draft letter to BWSR and updating Table 12-2 and plan text; prepared and emailed major plan amendment request to BWSR.

Leonard J. Kremer, Principal Engineer/Scientist 1.0 hours @ \$180.00 per hour\$	400.00
James P. Herbert, Principal Engineer/Scientist 2.5 hours @ \$160.00 per hour\$	180.00
Karen L. Chandler, Engineer/Scientist/Specialist III 3.7 hours @ \$150.00 per hour\$	555.00
Subtotal, Schaper Pond Enhancement\$	1,135.00

BRIARWOOD - DAWNVIEW POND

Attended June 4 Hennepin County committee meeting regarding major plan amendment; prepared memo regarding major plan amendment for June Commission meeting, including preparation of draft letter to BWSR and updating Table 12-2 and plan text; prepared and emailed major plan amendment request to BWSR.

Karen L. Chandler, Engineer/Scientist/Specialist III	
3.1 hours @ \$150.00 per hour\$	465.00
Expenses (Mileage)	10.74
Subtotal, Briarwood – Dawnview Pond\$	475.74
TOTAL CAPITAL IMP PROJECTS (Tax Levy)\$	4,285.46

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

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TOTAL CAPITAL IMPROVEMENT PROJECTS	
(Maintenance Funds)	\$ 0.00

TMDL STUDIES

TOTAL TMDL STUDIES......\$ 0.00

SUMMARY TOTALS

Total Engineering\$	29,835.68
Total Secretarial Services Expenses\$	702.06
Total Planning\$	2,787.00
Total Annual Report/Website/Public Communications\$	0.00
Total WOMP\$	165.00
Total Capital Improvement Projects (Tax Levy)\$	4,285.46
Total Capital Improvement Projects (Maintenance Funds)\$	0.00
Total TMDL Studies	0.00
TOTAL PAYABLE\$	37,775.20

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