Mr. Jim de Lambert Bassett Creek Watershed Management Commission 7800 Golden Valley Road Golden Valley, MN 55427 Page # 1

Invoice # 23270051-2017-7

Project # 23/27-0051

Client # 59 September 8, 2017

# Invoice of Account with BARR ENGINEERING COMPANY

For professional services during the period of July 29, 2017 through September 1, 2017

#### **ENGINEERING**

#### **TECHNICAL SERVICES**

Provide XP SWMM model to Minnetonka staff in response to request; conditional use permits coordination with administrator, Commission legal counsel and Hennepin County; internal communications regarding new MPCA TALU rules and impact on BCWMC; communications with Minneapolis staff regarding Bryn Mawr CIP project schedule; attend August 10 Minneapolis Bacteria Study meeting; complete final updates to requirements document and MIDS design sequence flowchart to reflect BCWMC changes to linear project water quality treatment requirements and newly-adopted floodplain elevations, and provide documents to administrator; and complete revisions to Section 2 of the BCWMC Plan to reflect newly-adopted floodplain elevations and normal water level changes, including text and Tables 2-9 and 2-10, and provide revised Section 2 to administrator.

James P. Herbert, Principal Engineer/Scientist 4.0 hours @ \$190.00 per hour\$	760.00
Henry M. Runke, Principal Engineer/Scientist 1.0 hours @ \$175.00 per hour\$	175.00
Karen L. Chandler, Principal Engineer/Scientist 21.1 hours @ \$170.00 per hour\$	3,587.00
Jennifer A. Koehler, Engineer/Scientist/Specialist III  0.8 hours @ \$130.00 per hour\$	104.00
Ross S. Mullen, Engineer/Scientist/Specialist II 0.9 hours @ \$95.00 per hour\$	85.50
Lulu Fang, Engineer/Scientist/Specialist I  1.3 hours @ \$80.00 per hour\$	104.00
Josh P. Phillips, Engineer/Scientist/Specialist I 23.9 hours @ \$75.00 per hour\$	1,792.50

echnicians/Administrative\$  xpenses (Mileage/color plotter)\$	292.50
	43.75
Subtotal, Technical Services\$	6,944.25

#### MONTHLY MEETING PREPARATION

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

James P. Herbert, Principal Engineer/Scientist	
4.9 hours @ \$190.00 per hour\$	931.00
Karen L. Chandler, Principal Engineer/Scientist	
13.3 hours @ \$170.00 per hour\$	2,261.00
Technicians/Administrative\$_	427.50
Subtotal, Monthly Meeting Preparation\$	3,619.50

#### TAC PREPARATION

Prepare for August TAC meeting, including forwarding August TAC meeting materials to MDNR staff, and communications with internal staff and MDNR staff regarding FEMA modeling follow-up questions, communications with Golden Valley staff regarding FEMA modeling, and internal coordination regarding proposed changes to BCWMC review fee schedule; and post-TAC meeting internal follow-up regarding additional FEMA modeling questions for MDNR.

Subtotal Technical Services	\$ 12,958.75
Subtotal, TAC Preparation	\$ 2,395.00
Jennifer A. Koehler, Engineer/Scientist/Specialist III  2.9 hours @ \$130.00 per hour	\$ 377.00
Sarah M. Stratton, Engineer/Scientist/Specialist III  2.6 hours @ \$150.00 per hour	\$ 390.00
Karen L. Chandler, Principal Engineer/Scientist 7.9 hours @ \$170.00 per hour	\$ 1,343.00
James P. Herbert, Principal Engineer/Scientist  1.5 hours @ \$190.00 per hour	\$ 285.00

#### PLAT REVIEW

## SWLRT (2016-2017) (2016-24)

Communications with SWLRT consultant and internal staff regarding SWLRT project modifications, BCWMC requirements/submittal and potential re-application.

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$190.00 per hour	\$	190.00
Karen L. Chandler, Principal Engineer/Scientist 2.5 hours @ \$170.00 per hour	\$ <u></u>	425.00
Subtotal, SWLRT	\$	615.00
Luther Support Center (2016-24)		
Communications with applicant regarding project BMP.		
Josh P. Phillips, Engineer/Scientist/Specialist I  0.2 hours @ \$75.00 per hour	\$	<u> 15.00</u>
Subtotal, Luther Support Center	\$	15.00
Ridgedale Corner Shoppes (2016-34)		
Review revised resubmittal; communication with applicant; and prepare and send staff.	d appro	val letter to city
James P. Herbert, Principal Engineer/Scientist  0.8 hours @ \$190.00 per hour	\$	152.00
Josh P. Phillips, Engineer/Scientist/Specialist I  1.9 hours @ \$75.00 per hour	\$	142.50
Subtotal, Ridgedale Corner Shoppes	\$	294.50
BNSF Bridge 1.7 (LS 202) (2017-09)		
Project close-out/filing.		
Josh P. Phillips, Engineer/Scientist/Specialist I  0.6 hours @ \$75.00 per hour	\$	<u>45.00</u>
Subtotal, BNSF Bridge 1.7 (LS 202)	\$	45.00
Banner Eng. Outlet A Addition (2017-15)		
Project close-out/filing.		
Josh P. Phillips, Engineer/Scientist/Specialist I  0.8 hours @ \$75.00 per hour	\$	60.0 <u>0</u>
Subtotal, Banner Eng. Outlet A Addition	\$	60.00
Home2 Suites Hotel (2017-17)		
Track new and/or fully reconstructed impervious surface; and project close-out/f	iling.	
Josh P. Phillips, Engineer/Scientist/Specialist I  0.3 hours @ \$75.00 per hour	\$_	22.5 <u>0</u>
Subtotal, Home2 Suites Hotel		22.50

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Armstrong HS Bldg Exterior (2017-18)	
Track new and/or fully reconstructed impervious surface; and project close-out/filing.	
Josh P. Phillips, Engineer/Scientist/Specialist I  0.3 hours @ \$75.00 per hour\$_	<u> 22.50</u>
Subtotal, Armstrong HS Bldg Exterior\$	22.50
CSAH 66 Culvert Replacement (2017-19)	
Review status, prepare email to MDNR regarding culvert replacement; coordination wit staff; and track new and/or fully reconstructed impervious surface.	h Hennepin County
James P. Herbert, Principal Engineer/Scientist 1.8 hours @ \$190.00 per hour\$	342.00
Josh P. Phillips, Engineer/Scientist/Specialist I 0.1 hours @ \$75.00 per hour\$_	7.50
Subtotal, CSAH 66 Culvert Replacement\$	349.50
Ridgedale Regional Service Center (2017-20)	
Track new and/or fully reconstructed impervious surface; and project close-out/filing.	
Josh P. Phillips, Engineer/Scientist/Specialist I 0.8 hours @ \$75.00 per hour\$_	60.00
Subtotal, Ridgedale Regional Service Center\$	60.00
Creekside Woods I and II (2017-21)	
Track new and/or fully reconstructed impervious surface; and project close-out/filing.	
Josh P. Phillips, Engineer/Scientist/Specialist I	F2 F0
0.7 hours @ \$75.00 per hour\$_ Subtotal, Creekside Woods I and II\$	
Subtotat, Creekside woods i and ii	52.50
Glory of Christ LC Addition (2017-22)	
Track new and/or fully reconstructed impervious surface; and project close-out/filing.	
Josh P. Phillips, Engineer/Scientist/Specialist I 0.4 hours @ \$75.00 per hour\$_	30.00
Subtotal, Glory of Christ LC Addition\$	30.00
Prescription Landscape Parking (2017-23)	
Track new and/or fully reconstructed impervious surface; and project close-out/filing.	
Josh P. Phillips, Engineer/Scientist/Specialist I	

0.4 hours @ \$75.00 per hour.....\$\_\_\_

Subtotal, Prescription Landscape Parking.....\$

30.00

30.00

rack new and/or fully reconstructed impervious surface; and project clo	ose-out/filing.	
Josh P. Phillips, Engineer/Scientist/Specialist I		
0.6 hours @ \$75.00 per hour	\$ <u> </u>	45.00
Subtotal, Wagner Spray Tech Phase 3	\$	45.00
820 Major Drive No Landscape (2017-25)		
rack new and/or fully reconstructed impervious surface; and project clo	ose-out/filing.	
Josh P. Phillips, Engineer/Scientist/Specialist I		
0.4 hours @ \$75.00 per hour	\$	30.00
Subtotal, 1820 Major Drive N Landscape	\$	30.00
Plymouth Commons Apartments (2017-26)		
rack new and/or fully reconstructed impervious surface; and project clo	ose-out/filing.	
Josh P. Phillips, Engineer/Scientist/Specialist I  0.5 hours @ \$75.00 per hour	\$	37.50
Subtotal, Plymouth Commons Apartments		37.50
Northwood East Ballfield Improvements (2017-27)		
Review grading, drainage and erosion control plans; prepare memo for a prepare and send approval letter to city staff.	August Commiss	sion meetin
James P. Herbert, Principal Engineer/Scientist		
1.5 hours @ \$190.00 per hour	\$	285.00
Karen L. Chandler, Principal Engineer/Scientist	<b>.</b>	C0 00
0.4 hours @ \$170.00 per hour		68.00
Josh P. Phillips, Engineer/Scientist/Specialist I 5.2 hours @ \$75.00 per hour	\$	390.00
Technicians/Administrative	\$	27.00
Expenses (Postage)	<u>\$</u>	0.46
Subtotal, Northwood East Ballfield Improvements	<b>¢</b>	770.46

P. Herbert, Principal Engineer/Scientist 2.6 hours @ \$190.00 per hour ......\$

3.0 hours @ \$75.00 per hour.....\$

494.00

225.00

James P. Herbert, Principal Engineer/Scientist

Josh P. Phillips, Engineer/Scientist/Specialist I

Technicians/Administrative\$	45.00
Expenses (Postage)\$	0.46
Subtotal, Morrie's Parking Lot Expansion\$	764.46

# Good Samaritan Assisted Living (2017-29)

Review grading, drainage and erosion control plans; communications with applicant; and prepare and send approval/comment letter to city staff.

James P. Herbert, Principal Engineer/Scientist 1.1 hours @ \$190.00 per hour	\$	209.00
Josh P. Phillips, Engineer/Scientist/Specialist I 2.7 hours @ \$75.00 per hour	\$	202.50
Technicians/Administrative	\$	45.00
Expenses (Postage)	<u>\$</u>	0.46
Subtotal, Good Samaritan Assisted Living	\$	456.96
Subtotal Plat Review	\$	3,700.88

## PRELIMINARY COMMUNICATIONS AND NON-FEE REVIEWS

## **PRELIMINARY COMMUNICATIONS**

Communications with MPRB staff regarding proposed Wirth Park mountain bike trail; communications with MPRB staff regarding proposed Bassett's Creek Park improvements; coordination with administrator regarding Cranberry Ridge development; internal communications and communications with administrator regarding impacts of Wirth Park snowmaking (creek flowrate reduction) on creek ecology; meeting with Minneapolis CPED representatives regarding impound lot redevelopment and follow-up email regarding requirements; and communications with St. Louis Park staff, administrator and developer's consultant regarding BCWMC requirements and submittal for 400 Ford Road.

Subtotal, Preliminary Communications\$	1,468.50
Josh P. Phillips, Engineer/Scientist/Specialist I  0.3 hours @ \$75.00 per hour\$_	22.50
Margaret R. Rattei, Engineer/Scientist/Specialist III  0.3 hours @ \$130.00 per hour\$	39.00
Karen L. Chandler, Principal Engineer/Scientist  2.8 hours @ \$170.00 per hour\$	476.00
James P. Herbert, Principal Engineer/Scientist 4.9 hours @ \$190.00 per hour\$	931.00

# NON-FEE REVIEWS

# **BLUE LINE LRT**

Communications with, and review information from, Blue Line LRT consultant regarding rate control and potential variance request.

Karen L. Chandler, Principal Engineer/Scientist  2.1 hours @ \$170.00 per hour\$	357.00
Subtotal, Blue Line LRT\$	357.00
BLUE LINE LRT WCA LGU ADMIN	
Golden Valley	
Submit Notice of Application to TEP, agent, and applicant; and coordinate/set up a T	EP meeting.
Karen S. Wold, Engineer/Scientist/Specialist II  1.5 hours @ \$120.00 per hour\$	<u> 180.00</u>
Subtotal, Golden Valley\$	180.00
Minneapolis Submit Notice of Application to TEP, agent, and applicant; and coordinate/set up a T	EP meeting.
Karen S. Wold, Engineer/Scientist/Specialist II	1.00.00
1.4 hours @ \$120.00 per hour\$	
Subtotal, Minneapolis \$	168.00
Robbinsdale Communications with Blue Line LRT wetland consultant regarding a TEP meeting; and TEP meeting.	d coordinate/so
Communications with Blue Line LRT wetland consultant regarding a TEP meeting; and	
Communications with Blue Line LRT wetland consultant regarding a TEP meeting; and TEP meeting.  Karen S. Wold, Engineer/Scientist/Specialist II	5 <u>156.00</u>
Communications with Blue Line LRT wetland consultant regarding a TEP meeting; and TEP meeting.  Karen S. Wold, Engineer/Scientist/Specialist II  1.3 hours @ \$120.00 per hour	5 <u>156.00</u> 5 <i>156.00</i>
Communications with Blue Line LRT wetland consultant regarding a TEP meeting; and TEP meeting.  Karen S. Wold, Engineer/Scientist/Specialist II  1.3 hours @ \$120.00 per hour	5 156.00 5 156.00 5 504.00
Communications with Blue Line LRT wetland consultant regarding a TEP meeting; and TEP meeting.  Karen S. Wold, Engineer/Scientist/Specialist II  1.3 hours @ \$120.00 per hour	5 156.00 5 156.00 5 504.00 8 861.00
Communications with Blue Line LRT wetland consultant regarding a TEP meeting; and TEP meeting.  Karen S. Wold, Engineer/Scientist/Specialist II  1.3 hours @ \$120.00 per hour	5 156.00 5 156.00 5 504.00 8 861.00 8 861.00
Communications with Blue Line LRT wetland consultant regarding a TEP meeting; and TEP meeting.  Karen S. Wold, Engineer/Scientist/Specialist II  1.3 hours @ \$120.00 per hour	5 156.00 5 156.00 5 504.00 8 861.00 8 861.00
Communications with Blue Line LRT wetland consultant regarding a TEP meeting; and TEP meeting.  Karen S. Wold, Engineer/Scientist/Specialist II  1.3 hours @ \$120.00 per hour	5 156.00 5 156.00 5 504.00 8 861.00 8 861.00
Communications with Blue Line LRT wetland consultant regarding a TEP meeting; and TEP meeting.  Karen S. Wold, Engineer/Scientist/Specialist II  1.3 hours @ \$120.00 per hour	5 156.00 5 156.00 5 504.00 8 861.00 8 2,329.50
Communications with Blue Line LRT wetland consultant regarding a TEP meeting; and TEP meeting.  Karen S. Wold, Engineer/Scientist/Specialist II  1.3 hours @ \$120.00 per hour	5 156.00 5 156.00 5 504.00 8 861.00 8 2,329.50

Jeff D. Weiss, Engineer/Scientist/Specialist III		
1.5 hours @ \$125.00 per hour		187.50
Expenses (Mileage)		12.84
Subtotal, Commission and TAC Meetings	\$	1,617.34
SURVEYS & STUDIES		
Subtotal Surveys & Studies	\$	0.00
WATER QUALITY/MONITORING		
Sweeney Lake Aeration Study Review and file lab reports.		
Terri A. Olson, Engineer/Scientist/Specialist III 0.5 hours @ \$130.00 per hour	\$	65.00
Technicians/Administrative	\$_	84.00
Subtotal, Sweeney Lake Aeration Study	\$	149.00
Subtotal, Water Quality/Monitoring	\$	149.00
WATER QUANTITY		
Measure and review lake level elevations as part of the lake-gauging p	orogram.	
Technicians/Administrative	\$	1,080.00
Expenses (Mileage/2WD field vehicle)	<u>\$</u>	160.08
Subtotal, Water Quantity	\$	1,240.08
XP-SWMM Model Updates		
Prepare final report; communications with administrator; and provide fand TAC.	final report t	o administra
Karen L. Chandler, Principal Engineer/Scientist 0.8 hours @ \$170.00 per hour	\$	136.00
Jennifer A. Koehler, Engineer/Scientist/Specialist III 4.4 hours @ \$130.00 per hour	\$	572.00
Ross S. Mullen, Engineer/Scientist/Specialist II  0.8 hours @ \$95.00 per hour	\$_	76.00
Subtotal, XP-SWMM Model Updates	\$	784.00
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ANNUAL REPORT	
TOTAL ANNUAL REPORT\$	0.00
PUBLIC COMMUNICATIONS	
TOTAL PUBLIC COMMUNICATIONS\$	0.00
WEBSITE	
TOTAL WEBSITE\$	0.00
WATERSHED OUTLET MONITORING PROGRAM (WOMP)	
TOTAL WOMP\$	0.00
CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)	

#### FOUR SEASONS MALL AREA WATER QUALITY PROJECT (NL-2)

Review 90% re-submittal, including water quality treatment requirements for wetland restoration project, stormwater pond and on-site BMPs, XPSWMM model results, and erosion and sediment controls; request, receive and review TP load and TP load reduction summary table; internal meetings to discuss review results; communications with developer's consultant regarding review and MDNR permit status for wetland restoration; communications with developer's consultant and administrator regarding construction costs; prepare review memo for August Commission meeting and provide to administrator for meeting packet; and prepare and send approval/comment letter to city staff.

Karen L. Chandler, Principal Engineer/Scientist 12.5 hours @ \$170.00 per hour\$	2,125.00
Gregory J. Wilson, Consultant/Advisor 13.3 hours @ \$155.00 per hour\$	2,061.50
Ross S. Mullen, Engineer/Scientist/Specialist II  2.6 hours @ \$95.00 per hour\$	247.00
Josh P. Phillips, Engineer/Scientist/Specialist I  11.5 hours @ \$75.00 per hour\$	862.50
Subtotal, Four Seasons Mall Area Water Quality Project (NL-2)\$	5,296.00

# PLYMOUTH CREEK RESTORATION, ANNAPOLIS LN TO 2,500 FT UPSTREAM OF ANNAPOLIS LN (2017 CR-P)

Review revised 90% submittal, including revised construction plans, erosion and sediment controls, XP SWMM model, floodplain elevations, and tree removals; internal discussion regarding review; communications with city's consultant regarding missing information; communications with administrator

regarding flood level increase and variance; prepare 90% review memo for August Commission meeting; communications with city's consultant and administrator regarding flood elevation increase and variance request; provide memo to administrator for meeting packet; review landowner comments; communications with administrator regarding tree survey and tree removals; communications with administrator regarding approval conditions; and prepare and send approval/comment letter to city staff.

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$190.00 per hour\$	190.00
Karen L. Chandler, Principal Engineer/Scientist 11.6 hours @ \$170.00 per hour\$	1,972.00
Jeff D. Weiss, Engineer/Scientist/Specialist III 9.7 hours @ \$125.00 per hour\$	1,212.50
Adam K. Howard, Engineer/Scientist/Specialist II  3.6 hours @ \$105.00 per hour\$	378.00
Lulu Fang, Engineer/Scientist/Specialist I  0.6 hours @ \$80.00 per hour\$	48.00
Josh P. Phillips, Engineer/Scientist/Specialist I  0.4 hours @ \$75.00 per hour\$_	30.00
Subtotal, Plymouth Creek Restoration Annapolis Ln to 2,500 ft.  Upstream of Annapolis\$	3,830.50

## SCHAPER POND EFFECTIVENESS MONITORING (SL-3)

Install and program monitoring equipment; develop rating curves for inlet and outlet; field test and start up monitoring stations; troubleshoot and fix sample collection system; set up telemetry; and collect water quality samples and send to lab for analysis.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$190.00 per hour\$	95.00
Karen L. Chandler, Principal Engineer/Scientist 0.5 hours @ \$170.00 per hour\$	85.00
Gregory J. Wilson, Consultant/Advisor 17.4 hours @ \$155.00 per hour\$	2,697.00
Terri A. Olson, Engineer/Scientist/Specialist III  1.6 hours @ \$130.00 per hour\$	208.00
Christopher J. Bonick, Engineer/Scientist/Specialist II 61.6 hours @ \$120.00 per hour\$	7,392.00
Gregory D. Fransen, Engineer/Scientist/Specialist II  1.3 hours @ \$115.00 per hour\$	149.50
Heather N. Hlavaty, Engineer/Scientist/Specialist I 41.8 hours @ \$90.00 per hour\$	3,762.00

MDL WORK  TOTAL TMDL WORK\$  UMMARY TOTALS  Total Engineering	
TOTAL TMDL WORK\$  UMMARY TOTALS	0.00 22,779.55
TOTAL TMDL WORK\$	0.00
	0.00
MDL WORK	
TOTAL CAPITAL IMPROVEMENTS PROJECTS (Tax Levy)\$	26,500.43
Subtotal, Schaper Pond Effectiveness Monitoring\$	17,373.93
Expenses (Mileage/Vehicle-2WD&4WD Field/gas indicator/confined space kit/Verizon Wireless)\$	633.43
Technicians/Administrative\$	2,039.00
Josh P. Phillips, Engineer/Scientist/Specialist I  1.0 hours @ \$75.00 per hour\$	75.00
	238.00

Total Capital Improvement Projects (Tax Levy)......\$ 26,500.43

TOTAL PAYABLE......\$ 49,279.98

Total TMDL Work ......\$

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

Jin Herber