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engineering and environmental consultants

Ms. Catherine Cesnik
Bassett Creek Watershed Management Commission
7800 Golden Valley Road
Golden Valley, MN 55427

Page # 1
Invoice # 23270051-2021-08
Project # 23/27-0051
Client # 59
September 3, 2021

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
July 31, 2021 through August 27, 2021

1000—ENGINEERING & MONITORING

1010—Technical Services

Technical Services

Review historic low Medicine Lake water levels and communications with administrator and Plymouth staff regarding Medicine Lake water levels; and discussions with internal staff regarding BCWMC application process.

Karen L. Chandler, Principal Engineer/Scientist		
0.7 hours @ \$185.00 per hour	\$	129.50
Technicians/Administrative	\$	100.00
<i>Subtotal, Technical Services</i>	\$	229.50

Parkers Lake Chloride Work Group

Communications with Plymouth consultant regarding potential future work group meeting dates; and complete poll for future meetings.

Karen L. Chandler, Principal Engineer/Scientist		
0.6 hours @ \$185.00 per hour	\$	111.00
<i>Subtotal, Parkers Lake Chloride Work Group</i>	\$	111.00

Monthly Meeting Preparation

Communications/coordination with administrator and internal staff regarding draft/final agenda and meeting packet for August meeting; review/edit draft July meeting minutes; prepare for August Commission meeting, including preparing for 2020 water quality monitoring presentation, review meeting packet, pre-meeting conference call with Commissioner Welch and administrator, and internal communications regarding meeting format, attendance, and presentations; and communications with administrator and internal staff regarding follow-up items from August Commission meeting and upcoming meeting agenda items.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$200.00 per hour.....	\$	100.00
Karen L. Chandler, Principal Engineer/Scientist 15.9 hours @ \$185.00 per hour	\$	2,941.50
Margaret R. Rattei, Engineer/Scientist/Specialist III 0.7 hours @ \$145.00 per hour	\$	101.50
Technicians/Administrative	\$	<u>780.00</u>
<i>Subtotal, Monthly Meeting Preparation</i>	\$	<i>3,923.00</i>

TAC Preparation

Review/edit administrator's draft TAC memo for August Commission meeting and send to administrator; review/edit Crystal's edits to draft TAC; and communications with administrator.

Karen L. Chandler, Principal Engineer/Scientist 1.5 hours @ \$185.00 per hour	\$	<u>277.50</u>
<i>Subtotal, TAC Preparation.....</i>	\$	<i>277.50</i>
Subtotal 1010—Technical Services.....	\$	4,541.00

1020—Development/Project Reviews

Plymouth Creek Parking Lot Reconstruction (2021-11)

Communications and coordination with Commission accountant and city staff regarding permit fee; and meeting with city staff regarding proposed water quality treatment changes to project.

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$200.00 per hour	\$	200.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.4 hours @ \$115.00 per hour	\$	<u>46.00</u>
<i>Subtotal, Plymouth Creek Parking Lot Reconstruction (2021-11)</i>	\$	<i>246.00</i>

Medtronic PNL Warehouse Addition (2021-17)

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

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$200.00 per hour	\$	200.00
Josh P. Phillips, Engineer/Scientist/Specialist II 4.0 hours @ \$115.00 per hour	\$	460.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 3.5 hours @ \$95.00 per hour	\$	332.50
Technicians/Administrative	\$	<u>150.00</u>
<i>Subtotal, Medtronic PNL Warehouse Addition (2021-17)</i>	\$	<i>1,142.50</i>

Ridgedale Area Park Improve (2021-18)

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

James P. Herbert, Principal Engineer/Scientist 1.5 hours @ \$200.00 per hour	\$ 300.00
Karen L. Chandler, Principal Engineer/Scientist 0.3 hours @ \$185.00 per hour	\$ 55.50
Josh P. Phillips, Engineer/Scientist/Specialist II 5.5 hours @ \$115.00 per hour	\$ 632.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 3.4 hours @ \$95.00 per hour	\$ 323.00
Technicians/Administrative	\$ 100.00
<i>Subtotal, Ridgedale Area Park Improve (2021-18).....</i>	<i>\$ 1,411.00</i>

Parkers Lake Commerce Center (2021-19)

Review grading, drainage, and erosion control plans for water quality, rate control, and erosion and sediment control; prepare draft comment letter; and communications with applicant.

James P. Herbert, Principal Engineer/Scientist 3.3 hours @ \$200.00 per hour	\$ 660.00
Josh P. Phillips, Engineer/Scientist/Specialist II 2.9 hours @ \$115.00 per hour	\$ 333.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 8.6 hours @ \$95.00 per hour	\$ 817.00
Technicians/Administrative	\$ 100.00
<i>Subtotal, Parkers Lake Commerce Center (2021-19).....</i>	<i>\$ 1,910.50</i>

L&W Supply Co. Parking Lot (2021-20)

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

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$200.00 per hour	\$ 200.00
Josh P. Phillips, Engineer/Scientist/Specialist II 2.0 hours @ \$115.00 per hour	\$ 230.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 2.4 hours @ \$95.00 per hour	\$ 228.00
Technicians/Administrative	\$ 100.00
<i>Subtotal, L&W Supply Co. Parking Lot (2021-20).....</i>	<i>\$ 758.00</i>

170 Maryland GV Proposed Deck (2021-21)

Review submittal for floodplain; and communications with city staff.

James P. Herbert, Principal Engineer/Scientist 1.1 hours @ \$200.00 per hour	\$ 220.00
Josh P. Phillips, Engineer/Scientist/Specialist II 1.6 hours @ \$115.00 per hour	\$ 184.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 1.3 hours @ \$95.00 per hour	\$ 123.50
Technicians/Administrative	\$ <u>70.00</u>
<i>Subtotal, 170 Maryland GV Proposed Deck (2021-21).....</i>	<i>\$ 597.50</i>

MN Rubber & Plastics Bldg Add (2021-22)

Preliminary review of grading, drainage, and erosion control plans; and communications with applicant.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$200.00 per hour	\$ <u>100.00</u>
<i>Subtotal, MN Rubber & Plastics Bldg Add (2021-22)</i>	<i>\$ 100.00</i>
Subtotal, 1020—Development/Project Reviews	\$ 6,165.50

1030—Non-Fee and Preliminary Reviews

Preliminary Reviews

Communications with administrator, and Minneapolis, Golden Valley, MPRB, MnDOT and internal staff regarding MnDOT’s unapproved installation of stoplog/gate structure on the Highway 55 Bassett Creek Flood Control Project structure to facilitate MnDOT repair work in Hwy 55 box culverts, site visit to confirm unapproved work, and follow-up communications regarding future next steps; communications with consultant regarding BCWMC requirements for project near Bassett Creek tunnel in Minneapolis; attend August 18 meeting with Plymouth staff, Plymouth consultant and administrator regarding city’s small area plan for Highway 55 and County Road 73 area; communications with Crystal staff regarding proposed garage addition in Crystal; communications with Golden Valley staff regarding 10th Ave project; and preliminary review of proposed project in Minnetonka.

James P. Herbert, Principal Engineer/Scientist 3.3 hours @ \$200.00 per hour	\$ 660.00
Karen L. Chandler, Principal Engineer/Scientist 5.9 hours @ \$185.00 per hour	\$ 1,091.50
Josh P. Phillips, Engineer/Scientist/Specialist II 7.1 hours @ \$115.00 per hour	\$ 816.50
Technicians/Administrative.....	\$ 104.00
Expenses (Mileage).....	\$ <u>14.56</u>
<i>Subtotal, Preliminary Reviews</i>	<i>\$ 2,686.56</i>

Non-Fee Reviews

<i>Subtotal Non-Fee Reviews.....</i>	<i>\$ 0.00</i>
Subtotal, 1030— Non-Fee and Preliminary Reviews	\$ 2,686.56

1040—Commission and TAC Meetings

Attend August 19 Commission meeting (virtual).

Karen L. Chandler, Principal Engineer/Scientist 2.9 hours @ \$185.00 per hour	\$ 536.50
Margaret R. Rattei, Engineer/Scientist/Specialist III 1.5 hours @ \$145.00 per hour	\$ 217.50
Subtotal, 1040—Commission and TAC Meetings.....	\$ 754.00

1050—Surveys and Studies

Subtotal, 1050—Surveys and Studies	\$ 0.00
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1060—Water Quality/Monitoring

General Water Quality

Communications with administrator regarding proposed aerator on Lost Lake and impact on water quality, including review/summary of 2017 water quality data; and communications with Crystal staff regarding impact of proposed fountain in Winnetka Pond.

Karen L. Chandler, Principal Engineer/Scientist 0.5 hours @ \$185.00 per hour	\$ 92.50
Margaret R. Rattei, Engineer/Scientist/Specialist III 0.9 hours @ \$145.00 per hour	\$ 130.50
<i>Subtotal, General Water Quality.....</i>	<i>\$ 223.00</i>

Sweeney Branch Monitoring Year 2

Perform monitoring station maintenance, including resetting/reconnecting the modem; set up station for storm sampling; prepare for and collect August 9 storm sample and August 25 grab sample; expenses include Verizon Wireless charges for monitoring station and mileage charges.

Margaret R. Rattei, Engineer/Scientist/Specialist III 1.1 hours @ \$145.00 per hour	\$ 159.50
Chris Bonick, Engineer/Scientist/Specialist III 5.5 hours @ \$135.00 per hour	\$ 742.50
Kallie Doeden, Engineer/Scientist/Specialist II 0.5 hours @ \$110.00 per hour	\$ 55.00
Heather Hlavaty, Engineer/Scientist/Specialist II 2.8 hours @ \$120.00 per hour	\$ 336.00
Technicians/Administrative.....	\$ 53.00
Expenses (Verizon/Mileage/Vehicle).....	\$ 186.72
<i>Subtotal, Sweeney Branch Monitoring Year 2.....</i>	<i>\$ 1,532.72</i>

Parkers Lake 2021 Monitoring

Review Pace Lab report from the AIS suitability parameters; file the chain-of-custody and lab acknowledgement in project folders; and internal communications.

Terri Olson, Engineer/Scientist/Specialist III		
0.7 hours @ \$150.00 per hour	\$	105.00
Technicians/Administrative.....	\$	<u>34.50</u>
<i>Subtotal, Parkers Lake 2021 Monitoring.....</i>	\$	139.50

Westwood Lake 2021 Monitoring

Prepare for and perform August 4 and August 17 monitoring; place bottle order to Pace lab; prepare for the September monitoring event; communications with Pace lab regarding lab reports; review lab reports; file the chain-of-custody, lab acknowledgement, field reports, and data emails in project folders; internal communications regarding chain of custody and field report datalinks; complete analyses of phytoplankton samples collected on April 12, July 13, August 4, and August 17; complete analyses of zooplankton samples collected on April 12, July 13, and August 4; expenses include aquatic plant survey subconsultant charges, Pace Lab charges, and vehicle, equipment, mileage and ice (for sample cooling) charges for August monitoring.

Terri Olson, Engineer/Scientist/Specialist III		
0.6 hours @ \$150.00 per hour	\$	90.00
Margaret R. Rattei, Engineer/Scientist/Specialist III		
16.0 hours @ \$145.00 per hour.....	\$	2,320.00
Kevin Menken, Engineer/Scientist/Specialist III		
1.5 hours @ \$125.00 per hour	\$	187.50
Technicians/Administrative.....	\$	947.00
Subconsultant (Endangered Resource Services)	\$	2,470.00
Expenses (Pace Analytical/Filtration/Vehicle/Canoe/Ice/WQ Meter/Mileage/Bottle Sampler)	\$	<u>434.23</u>
<i>Subtotal, Westwood Lake 2021 Monitoring</i>	\$	6,448.73

Crane Lake 2021 Monitoring

Prepare for and perform August 4 and August 17 monitoring; place bottle order to Pace lab; prepare for the September monitoring event; communications with Pace lab regarding lab reports; review lab reports; file the chain-of-custody, lab acknowledgement, field reports, and data emails in project folders; internal communications regarding chain of custody and field report datalinks; complete analyses of phytoplankton samples collected on August 4 and August 17; complete analyses of zooplankton samples collected on August 4; expenses include aquatic plant survey subconsultant charges, Pace Lab charges, and vehicle, equipment, mileage and ice (for sample cooling) charges for August monitoring.

Terri Olson, Engineer/Scientist/Specialist III		
0.4 hours @ \$150.00 per hour	\$	60.00
Margaret R. Rattei, Engineer/Scientist/Specialist III		
5.6 hours @ \$145.00 per hour	\$	812.00
Kevin Menken, Engineer/Scientist/Specialist III		
1.5 hours @ \$125.00 per hour	\$	187.50
Technicians/Administrative.....	\$	870.50

Subconsultant (Endangered Resource Services)	\$	2,470.00
Expenses (Pace Analytical/Filtration Apparatus/Ice/Vehicle/WQ Meter)	\$	<u>330.49</u>
<i>Subtotal, Crane Lake 2021 Monitoring</i>	\$	4,862.49
Subtotal, 1060—Water Quality/Monitoring	\$	13,206.44

1070—Water Quantity

Measure and review lake elevations as part of the lake-gauging program; set new benchmark on Crane Lake; and check benchmark for Medicine Lake.

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$200.00 per hour	\$	200.00
Technicians/Administrative	\$	1,713.00
Expenses (mileage/vehicle/Survey Set)	\$	<u>145.06</u>
Subtotal, 1070—Water Quantity	\$	2,058.06

1080—Annual Flood Control Project Inspections

Communications with administrator regarding flood control project budget status and future TAC meeting to discuss inspection budget and CIP projects; communications with internal staff regarding flood control project budgets; prepare for annual flood control project inspections, including communications with city staff and equipment preparation; perform annual flood control project inspections on August 19; communications with administrator, Alternate Commissioner Polzin, and internal staff regarding Alternate Commissioner Polzin's observations of Hwy 55 control structure; upload annual inspection photos and scan field notes; and prepare draft inspection report memo.

James P. Herbert, Principal Engineer/Scientist 2.5 hours @ \$200.00 per hour	\$	500.00
Karen L. Chandler, Principal Engineer/Scientist 1.3 hours @ \$185.00 per hour	\$	240.50
Patrick Brockamp, Engineer/Scientist/Specialist III 9.2 hours @ \$125.00 per hour	\$	1,150.00
Josh P. Phillips, Engineer/Scientist/Specialist II 15.5 hours @ \$115.00 per hour	\$	1,782.50
Aaron Brown, Engineer/Scientist/Specialist II 15.5 hours @ \$95.00 per hour	\$	798.00
Technicians/Administrative	\$	57.50
Expenses (Mileage)	\$	<u>19.04</u>
Subtotal, Annual Flood Control Project Inspections	\$	4,547.54

1100—Watershed Outlet Monitoring Program

WOMP Rating Curve

Subtotal, 1100—Watershed Outlet Monitoring Program	\$	0.00
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1110—Annual XP-SWMM Model Updates/Reviews

Subtotal, 1110— Annual XP-SWMM Model Updates/Reviews...\$ 0.00

1120—TMDL Implementation Reporting

Subtotal, 1120—TMDL Implementation Reporting\$ 0.00

SUBTOTAL, 1000—ENGINEERING & MONITORING\$ 33,959.10

4000—OUTREACH & EDUCATION

4010—Publications/Annual Report

Subtotal, 4010—Publications/Annual Report\$ 0.00

SUBTOTAL, 4000—OUTREACH & EDUCATION\$ 0.00

CAPITAL IMPROVEMENT PROJECTS

Sweeney Lake Water Quality Improvement (SL-8)

Perform Post Alum Treatment Monitoring

Prepare for and perform August 4 and August 18 monitoring of south basin of Sweeney Lake; review water quality monitoring data and reporting; review lab report; communications alum treatment contractor; file the chain-of-custody, lab acknowledgement, field reports, and data emails in project folders; internal communications regarding chain of custody and field report datalinks; ;expenses include Pace Lab charges, and vehicle, equipment, sample shipment, and mileage charges for August monitoring.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$200.00 per hour	\$ 100.00
Gregory Wilson, Engineer/Scientist/Specialist IV 0.5 hours @ \$175.00 per hour	\$ 87.50
Kevin Menken, Engineer/Scientist/Specialist III 2.0 hours @ \$125.00 per hour	\$ 250.00
Terri Olson, Engineer/Scientist/Specialist III 0.3 hours @ \$150.00 per hour	\$ 45.00
Technicians/Administrative.....	\$ 731.00
Expenses (Pace/ FedEx/Vehicle/Mileage/Filtration Apparatus)	\$ 349.88
<i>Subtotal, Perform Post Alum Treatment Monitoring.....</i>	<i>\$ 1,563.38</i>
<i>Subtotal, Sweeney Lake Water Quality Improvement (SL-8)</i>	<i>\$ 1,563.38</i>

Schaper Pond Carp Management (SL-3)

Develop carp control options matrix and recommendations memo and submit to administrator and Golden Valley staff for review; revise matrix and memo; and communications with Carp Solutions, administrator, and Golden Valley staff.

Karen L. Chandler, Principal Engineer/Scientist 0.2 hours @ \$185.00 per hour	\$ 37.00
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Gregory Wilson, Engineer/Scientist/Specialist IV
23.5 hours @ \$175.00 per hour \$ 4,112.50
Subtotal, Schaper Pond Carp Management (SL-3)..... \$ 4,149.50

Mt Olivet Stream Restoration (2021) (ML-20)

Review 90% drawings and Plymouth consultant's responses to comments on 60% design; communications with Plymouth consultant regarding comments; prepare memo for August Commission meeting regarding 90% design plans and provide to administrator; and prepare and send 90% review comment letter to city staff.

James P. Herbert, Principal Engineer/Scientist
0.8 hours @ \$200.00 per hour \$ 160.00
Karen L. Chandler, Principal Engineer/Scientist
1.8 hours @ \$185.00 per hour..... \$ 333.00
Peter Hinck, Engineer/Scientist/Specialist III
1.8 hours @ \$145.00 per hour..... \$ 261.00
Josh P. Phillips, Engineer/Scientist/Specialist II
0.3 hours @ \$115.00 per hour \$ 34.50
Subtotal, Mt Olivet Stream Restoration (2021) (ML-20)..... \$ 788.50

Parkers Lk Stream Restoration (2021) (PL-7)

Review 90% drawings and Plymouth consultant's responses to comments on 60% design; communications with Plymouth consultant regarding comments; prepare memo for August Commission meeting regarding 90% design plans and provide to administrator; and prepare and send 90% review comment letter to city staff.

James P. Herbert, Principal Engineer/Scientist
0.9 hours @ \$200.00 per hour \$ 180.00
Karen L. Chandler, Principal Engineer/Scientist
1.8 hours @ \$185.00 per hour..... \$ 333.00
Peter Hinck, Engineer/Scientist/Specialist III
1.8 hours @ \$145.00 per hour..... \$ 261.00
Josh P. Phillips, Engineer/Scientist/Specialist II
0.3 hours @ \$115.00 per hour \$ 34.50
Subtotal, Parkers Lk Stream Restoration (2021) (PL-7)..... \$ 808.50

Medley Park Stormwater Treatment Facility Feasibility Study (2022) (ML-12)

Review/edit administrator's draft BWSR CWF grant application.

Karen L. Chandler, Principal Engineer/Scientist
1.5 hours @ \$185.00 per hour \$ 277.50
Jennifer Koehler, Engineer/Scientist/Specialist IV
1.0 hours @ \$155.00 per hour \$ 155.00
Tyler Conley, Engineer/Scientist/Specialist II
0.4 hours @ \$100.00 per hour \$ 40.00

Katelyn Turpin-Nagel, Engineer/Scientist/Specialist II	
0.8 hours @ \$120.00 per hour	\$ 96.00
<i>Subtotal, Medley Park Stormwater Treatment Facility Feasibility Study (2022)(ML-12)</i>	
	\$ 568.50

Main Stem Lagoon Dredging Project (2021) (BC-7)

Prepare draft EAW.

Patrick Brockamp, Engineer/Scientist/Specialist III	
1.2 hours @ \$125.00 per hour	\$ 150.00
Tyler Conley, Engineer/Scientist/Specialist II	
3.0 hours @ \$100.00 per hour	\$ 300.00
Jessica Butler, Engineer/Scientist/Specialist II	
3.5 hours @ \$120.00 per hour	\$ 420.00
<i>Subtotal, Main Stem Lagoon Dredging Project (2021)(BC-7)</i>	
	\$ 870.00

Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5)

Prepare for and attend August 3 project meeting with BCWMC and MPRB teams, including communications with internal staff and communications with administrator; communications with MPRB consultants regarding site environmental considerations; prepare for and attend August 23 meeting with administrator to discuss coordination with MnDOT for Penn Pond clean out, including internal staff discussions and preparing photos and plans to illustrate current conditions; and ongoing communications with MPRB team regarding existing conditions topographic survey.

Karen L. Chandler, Principal Engineer/Scientist	
3.7 hours @ \$185.00 per hour	\$ 684.50
Jennifer Brekken, Engineer/Scientist/Specialist IV	
1.4 hours @ \$165.00 per hour	\$ 231.00
Michelle Kimble, Engineer/Scientist/Specialist IV	
12.7 hours @ \$155.00 per hour	\$ 1,968.50
Josh P. Phillips, Engineer/Scientist/Specialist II	
10.9 hours @ \$115.00 per hour	\$ 1,253.50
Dallen Webster, Engineer/Scientist/Specialist II	
7.1 hours @ \$100.00 per hour	\$ 710.00
Expenses (Mileage).....	\$ 11.76
<i>Subtotal, Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5)</i>	
	\$ 4,859.26

SUBTOTAL CAPITAL IMPROVEMENTS PROJECTS.....\$ 13,607.64

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$ 4,541.00
1020	Development/Project Reviews	\$ 6,165.50
1030	Non-fee and Preliminary Reviews	\$ 2,686.56
1040	Commission and TAC Meetings	\$ 754.00
1050	Surveys and Studies	\$ -
1060	Water Quality/Monitoring	\$ 13,206.44
1070	Water Quantity	\$ 2,058.06
1080	Annual Flood Control Project Inspections	\$ 4,547.54
1090	Municipal Plan Review	\$ -
1100	Watershed Outlet Monitoring Program	\$ -
1110	Annual XP-SWMM Model Updates/Reviews	\$ -
1120	TMDL Implementation Reporting	\$ -
1000	SUBTOTAL ENGINEERING & MONITORING	\$ 33,959.10
4000	OUTREACH & EDUCATION	
4010	Publications/Annual Report	\$ -
4000	SUBTOTAL OUTREACH & EDUCATION	\$ -
--	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$ 13,607.64
TOTAL PAYABLE		\$ 47,566.74

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


