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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 # 23270051-2022-7
Project # 23/27-0051
Client # 59
August 5, 2022

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
July 2, 2022 through July 29, 2022

1000—ENGINEERING & MONITORING

1010—Technical Services

Technical Services

Follow-up communications with internal staff regarding Shingle Creek/BCWMC hydrologic and legal boundaries; communications with administrator and commission attorney regarding need for hearing on 2023 levy request; communications with administrator regarding information about 2014 watershed map publisher; prepare for/sign in to Hennepin County committee meeting regarding maximum levy; communications with administrator regarding costs associated with BCWMC review of the Bassett Creek Dog Park (application #2022-05); review not-cashed application fee check and communications with administrator; communications with administrator and internal staff regarding effective date of revised project review fee schedule and Commission/TAC approval of effective date, and review updated review fee schedule and other related Requirements document edits; internal communications regarding iron enhanced sand filter BMP technical requirements; Parkers Lake Chloride Project: review City of Plymouth's memo to Commission, recommended options, Parkers Lake chloride work group information, and chloride data, internal meeting and communications with administrator regarding recommended options, and communications with Plymouth staff and internal staff regarding next steps; communications with administrator, Plymouth staff, Golden Valley staff and internal staff regarding upcoming Bassett Creek Main Stem and Ponderosa Woods CIP feasibility studies, who will perform studies, and preliminary scoping; and miscellaneous communications with administrator and internal staff.

James P. Herbert, Principal Engineer/Scientist 5.3 hours @ \$205.00 per hour	\$ 1,086.50
Karen L. Chandler, Principal Engineer/Scientist 17.4 hours @ \$190.00 per hour	\$ 3,306.00
Jen Koehler, Engineer/Scientist/Specialist IV 4.2 hours @ \$165.00 per hour	\$ 693.00
Greg Wilson, Engineer/Scientist/Specialist IV 5.8 hours @ \$180.00 per hour	\$ 1,044.00

Jessica Olson, Engineer/Scientist/Specialist III 1.5 hours @ \$160.00 per hour	\$ 240.00
Kallie Doeden, Engineer/Scientist/Specialist II 0.7 hours @ \$120.00 per hour	\$ 84.00
Lulu Fang, Engineer/Scientist/Specialist II 0.5 hours @ \$120.00 per hour	\$ <u>60.00</u>
<i>Subtotal, Technical Services</i>	\$ 6,513.50

Monthly Meeting Preparation

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

James P. Herbert, Principal Engineer/Scientist 4.3 hours @ \$205.00 per hour	\$ 881.50
Karen L. Chandler, Principal Engineer/Scientist 17.9 hours @ \$190.00 per hour	\$ 3,401.00
Technicians/Administrative.....	\$ <u>871.50</u>
<i>Subtotal, Monthly Meeting Preparation.....</i>	\$ 5,154.00

TAC Preparation

Prepare for July 6 TAC meeting; and review administrator's draft TAC memo for the July Commission meeting.

Karen L. Chandler, Principal Engineer/Scientist 0.9 hours @ \$190.00 per hour	\$ 171.00
Jen Koehler, Engineer/Scientist/Specialist IV 1.0 hours @ \$165.00 per hour	\$ <u>165.00</u>
<i>Subtotal, TAC Preparation.....</i>	\$ 336.00
Subtotal 1010—Technical Services	\$ 12,003.50

1020—Development/Project Reviews

Currie Commons (2020-28)

Review resubmittal for water quality, rate control, erosion and sediment control, and floodplain; prepare and send comment letter to city staff; and communications with applicant.

James P. Herbert, Principal Engineer/Scientist 4.7 hours @ \$205.00 per hour	\$ 963.50
Josh P. Phillips, Engineer/Scientist/Specialist II 6.4 hours @ \$125.00 per hour	\$ <u>800.00</u>
<i>Subtotal, Currie Commons (2020-28).....</i>	\$ 1,763.50

Bassett Creek Dog Park Ped. Bridge Imp. (2022-08)

Communications with applicant regarding XP SWMM model questions for site.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$205.00 per hour	\$	102.50
Jen Koehler, Engineer/Scientist/Specialist IV 0.2 hours @ \$165.00 per hour	\$	33.00
Lulu Fang, Engineer/Scientist/Specialist II 1.0 hours @ \$120.00 per hour	\$	<u>120.00</u>
<i>Subtotal, Bassett Creek Dog Park Ped. Bridge Imp. (2022-08).....</i>	\$	255.50

Vicksburg Ridge 2nd Addition (2022-10)

Review resubmittal for water quality, rate control, and erosion and sediment control; prepare and send comment letter to city staff; review resubmittal; and communications with city staff and applicant regarding proposed iron enhanced sand filter.

James P. Herbert, Principal Engineer/Scientist 9.6 hours @ \$205.00 per hour	\$	1,968.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 2.4 hours @ \$105.00 per hour	\$	<u>252.00</u>
<i>Subtotal, Vicksburg Ridge 2nd Addition (2022-10).....</i>	\$	2,220.00

Perpich Center Sidewalk (2022-12)

Review grading, drainage, and erosion control plans for erosion and sediment control; prepare and send comment letter to city staff; review resubmittal; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 2.4 hours @ \$205.00 per hour	\$	492.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 2.3 hours @ \$105.00 per hour	\$	241.50
Technicians/Administrative.....	\$	<u>52.50</u>
<i>Subtotal, Perpich Center Sidewalk (2022-12).....</i>	\$	786.00

Subtotal, 1020—Development/Project Reviews\$ 5,025.00

1030—Non-Fee and Preliminary Reviews

Preliminary Reviews

Review MDNR permit applications 2022-2512 and 2022-207; communications with Medicine Lake representatives and consultant regarding lift station project and BCWMC application requirements; follow-up communications with consultant regarding floodplain cross section for 187 Humboldt Avenue N in Minneapolis; communications with consultant regarding floodplain elevation for trail project in Plymouth; and communications with developer regarding Old Rockford Road project in Plymouth.

James P. Herbert, Principal Engineer/Scientist 4.3 hours @ \$205.00 per hour	\$	881.50
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Jen Koehler, Engineer/Scientist/Specialist IV
0.7 hours @ \$165.00 per hour \$ 115.50
Subtotal, Preliminary Reviews..... \$ 997.00

Non-Fee Reviews

North Loop Green Phase III Development (over tunnel drop structure)

Review consultant's crack monitoring report for the tunnel; and prepare and send email summary to administrator and city staff.

James P. Herbert, Principal Engineer/Scientist
5.5 hours @ \$205.00 per hour \$ 1,127.50
Subtotal, North Loop Green Phase III Development (over tunnel drop structure) \$ 1,127.50
Subtotal, Non-Fee Reviews..... \$ 1,127.50
Subtotal, 1030— Non-Fee and Preliminary Reviews.....\$ **2,124.50**

1040—Commission and TAC Meetings

Attend July 6 TAC meeting and July 21 Commission meeting.

Karen L. Chandler, Principal Engineer/Scientist
5.1 hours @ \$190.00 per hour \$ 969.00
Jen Koehler, Engineer/Scientist/Specialist IV
1.3 hours @ \$165.00 per hour \$ 214.50
Margaret R. Rattei, Engineer/Scientist/Specialist III
3.4 hours @ \$150.00 per hour \$ 510.00
Expenses (mileage)..... \$ 15.00
Subtotal, 1040—Commission and TAC Meetings.....\$ **1,708.50**

1050—Surveys and Studies

XPSWMM Update

Internal communications regarding model update tasks.

Jen Koehler, Engineer/Scientist/Specialist IV
0.9 hours @ \$165.00 per hour \$ 148.50
Subtotal, XPSWMM Update..... \$ 148.50
Subtotal, 1050—Surveys and Studies.....\$ **148.50**

1060—Water Quality/Monitoring

General Water Quality

Internal communications regarding MPCA's future stressor identification of Bassett Creek and verifying submittal of 2017 data collected by Wenck to MPCA's EQUIS database.

Margaret R. Rattei, Engineer/Scientist/Specialist III
0.2 hours @ \$150.00 per hour \$ 30.00

Madeline Hankard, Engineer/Scientist/Specialist I	
1.0 hours @ \$ 90.00 per hour.....	\$ 90.00
<i>Subtotal, General Water Quality.....</i>	<i>\$ 120.00</i>

Westwood-Crane Lake Report

Finalize 2020 Westwood Lake and Crane Lake reports and send to administrator; prepare draft presentation for July Commission meeting and send to administrator for review; and finalize presentation per administrator comment.

Karen L. Chandler, Principal Engineer/Scientist	
1.8 hours @ \$190.00 per hour.....	\$ 342.00
Margaret R. Rattei, Engineer/Scientist/Specialist III	
6.9 hours @ \$150.00 per hour.....	\$ 1,035.00
Kelly Wild, Engineer/Scientist/Specialist II	
1.0 hours @ \$115.00 per hour.....	\$ 115.00
Technicians/Administrative.....	\$ 270.00
<i>Subtotal, Westwood-Crane Lake Report.....</i>	<i>\$ 1,762.00</i>

Parkers Lake Report

Finalize 2020 Parkers Lake report and send to administrator; prepare draft presentation for July Commission meeting and send to administrator for review; and finalize presentation per administrator comment.

Karen L. Chandler, Principal Engineer/Scientist	
1.3 hours @ \$190.00 per hour.....	\$ 247.00
Margaret R. Rattei, Engineer/Scientist/Specialist III	
9.7 hours @ \$150.00 per hour.....	\$ 1,455.00
Technicians/Administrative.....	\$ 175.50
<i>Subtotal, Parkers Lake Report.....</i>	<i>\$ 1,877.50</i>

Sweeney Branch Report

Finalize 2020-2021 Sweeney Branch report, including water quality, biological and habitat monitoring results and send report to administrator; prepare draft presentation for July Commission meeting and send to administrator for review; and finalize presentation per administrator comment; expense charge is Verizon wireless charge for June for continuous DO monitoring.

Karen L. Chandler, Principal Engineer/Scientist	
3.5 hours @ \$190.00 per hour.....	\$ 665.00
Margaret R. Rattei, Engineer/Scientist/Specialist III	
9.4 hours @ \$150.00 per hour.....	\$ 1,410.00
Technicians/Administrative.....	\$ 553.50
Expenses (Verizon Wireless).....	\$ 44.08
<i>Subtotal, Sweeney Branch Report.....</i>	<i>\$ 2,672.58</i>

Northwood Lake & Lost Lake 2022 Monitoring

Prepare for and complete July 13 water quality monitoring of Northwood Lake and Lost Lake; file field data; review lab reports; expenses include lab analyses charges for samples collected June 14 and July 13 and equipment and other monitoring-related expenses.

Terri Olson, Engineer/Scientist/Specialist III 0.3 hours @ \$155.00 per hour	\$	46.50
Samantha Schirmer, Engineer/Scientist/Specialist III 0.2 hours @ \$130.00 per hour	\$	26.00
Technicians/Administrative.....	\$	808.00
Subconsultant (RMB Enviro)	\$	484.00
Expenses (filtration apparatus/vehicle/canoe/ice/meters/zooplankton net/mileage).....	\$	<u>180.90</u>
<i>Subtotal, Northwood Lake & Lost Lake 2022 Monitoring</i>	<i>\$</i>	<i>1,545.40</i>

Plymouth Creek Monitoring Year 1

Communications with Three Rivers Park District staff regarding stream water levels; and review flow data collected from monitoring station IP2.

Christopher Bonick, Engineer/Scientist/Specialist II 2.0 hours @ \$135.00 per hour.....	\$	270.00
<i>Subtotal, Plymouth Creek Monitoring Year 1</i>	<i>\$</i>	<i>270.00</i>
Subtotal, 1060—Water Quality/Monitoring.....	\$	8,247.48

1070—Water Quantity

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

Technicians/Administrative.....	\$	420.00
Expenses (vehicle/mileage).....	\$	<u>78.75</u>
Subtotal, 1070—Water Quantity	\$	498.75

1080—Annual Flood Control Project Inspections

Coordinate and attend meeting with the administrator and Minneapolis staff regarding existing Bassett Creek Flood Control Project (FCP) easements and operations and maintenance (O & M) agreements; review and draft potential edits and new clauses to the agreements; review historical Barr files for FCP easement records along the Stage 4 box culvert tunnel; and coordinate and communicate with Kennedy and Graven staff regarding FCP easement records along the Stage 4 box culvert tunnel.

James P. Herbert, Principal Engineer/Scientist 8.1 hours @ \$205.00 per hour	\$	1,660.50
Karen L. Chandler, Principal Engineer/Scientist 0.2 hours @ \$190.00 per hour	\$	<u>38.00</u>
Subtotal, 1080—Annual Flood Control Project Inspections.....	\$	1,698.50

1100—Watershed Outlet Monitoring Program

WOMP Rating Curve

Prepare for high flow event monitoring using StreamPro ADCP to monitor flows.

Kevin Menken, Engineer/Scientist/Specialist II 1.5 hours @ \$130.00 per hour	\$	195.00
Subtotal, 1100—Watershed Outlet Monitoring Program.....	\$	195.00

1110—XPSWMM Model Updates/Reviews

Subtotal, 1110—XPSWMM Model Updates/Reviews.....	\$	0.00
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1120—TMDL Implementation Reporting

Subtotal, 1120—TMDL Implementation Reporting.....	\$	0.00
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SUBTOTAL, 1000—ENGINEERING & MONITORING	\$	31,649.73
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2000—PLANNING

2010—Next Generation Plan Development

Develop and review presentation materials for the July 11, 2022 commissioner issue identification and prioritization workshop; attend the July 11, 2022 commissioner workshop, present materials, and facilitate small group discussions; summarize results of the July 11, 2022 commissioner workshop in a memorandum for the July Commission meeting; draft additional scope items to address high-priority issues identified at the July 11, 2022 commissioner workshop; and export online survey results for administrator review.

Karen L. Chandler, Principal Engineer/Scientist 15.0 hours @ \$190.00 per hour.....	\$	2,850.00
Greg Williams, Engineer/Scientist/Specialist III 10.2 hours @ \$155.00 per hour.....	\$	1,581.00
Technicians/Administrative.....	\$	418.50
Subtotal, 2010—Next Generation Plan Development	\$	4,849.50
SUBTOTAL, 2000—PLANNING.....	\$	4,849.50

4000—OUTREACH & EDUCATION

4010—Publications/Annual Report

Subtotal, 4010—Publications/Annual Report	\$	0.00
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SUBTOTAL, 4000—OUTREACH & EDUCATION.....	\$	0.00
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CAPITAL IMPROVEMENT PROJECTS

Sweeney Lake Water Quality Improvement Project (2020)(SL-8)

Engineer and Perform In-lake Alum Treatment

Schedule Phase 2 alum treatment and compile background files for contract documents and bidding; and develop and send Engineer's cost estimate and BCWMC agenda item summary to administrator

for July Commission meeting.

Karen L. Chandler, Principal Engineer/Scientist 0.3 hours @ \$190.00 per hour	\$ 57.00
Gregory Wilson, Engineer/Scientist/Specialist IV 19.7 hours @ \$180.00 per hour	\$ <u>3,546.00</u>
<i>Subtotal, Engineer and Perform In-lake Alum Treatment</i>	<i>3,603.00</i>

Perform Post Treatment Monitoring

Perform July water quality monitoring event; and perform QA/QC and summarize results; expenses include lab analyses charges, and equipment and other monitoring-related expenses.

Terri Olson, Engineer/Scientist/Specialist III 0.1 hours @ \$155.00 per hour	\$ 15.50
Samantha Schirmer, Engineer/Scientist/Specialist II 0.1 hours @ \$130.00 per hour	\$ 13.00
Technicians/Administrative	\$ 680.50
Subconsultant (RMB Enviro Labs)	\$ 544.00
Expenses (vehicle/canoe/ice/mileage/WQ meter/bottle sampler)	\$ <u>174.90</u>
<i>Subtotal, Perform Post Treatment Monitoring</i>	<i>1,427.90</i>
<i>Subtotal, Sweeney Lake Water Quality Improvement Project (2020)(SL-8)</i>	<i>5,030.90</i>

Schaper Pond Carp Management (SL-3)

Communications with Carp Solutions regarding carp survey follow-up and preliminary results; expenses are for carp survey.

Gregory Wilson, Engineer/Scientist/Specialist IV 3.0 hours @ \$180.00 per hour	\$ 540.00
Subconsultant (Carp Solutions)	\$ <u>2,640.00</u>
<i>Subtotal, Schaper Pond Carp Management (SL-3)</i>	<i>\$ 3,180.00</i>

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

Import points from additional topographic survey of channel between Lagoons D and E, create survey surface, clean up and modify to incorporate into existing ground surface in CADD, review and use site photos to update existing ground around/underneath bridge, and backcheck with as-built drawings; communications with administrator regarding project update and follow-up on haul routes discussion; internal communications regarding stream restoration sites; review and edit construction plans and specifications; prepare for, perform and expenses for survey to verify lagoon sediment accumulation/dredging amounts; internal meetings regarding design and coordination; review MDNR permit approval and conditions, including Contractor form; and project management.

Karen L. Chandler, Principal Engineer/Scientist 6.9 hours @ \$190.00 per hour	\$ 1,311.00
Patrick Brockamp, Engineer/Scientist/Specialist II 12.8 hours @ \$135.00 per hour	\$ 1,728.00

Peter Hinck, Engineer/Scientist/Specialist III 0.3 hours @ \$150.00 per hour	\$ 45.00
Alec Bateman, Engineer/Scientist/Specialist II 10.0 hours @ \$110.00 per hour	\$ 1,100.00
Tyler Conley, Engineer/Scientist/Specialist II 2.6 hours @ \$110.00 per hour	\$ 286.00
Rachel Bateman, Engineer/Scientist/Specialist I 3.7 hours @ \$105.00 per hour	\$ 388.50
Technicians/Administrative.....	\$ 1,497.00
Expenses (mileage/vehicle/robotic station).....	\$ 576.75
<i>Subtotal, Main Stem Lagoon Dredging Project (2021)(BC-7).....</i>	<i>\$ 6,932.25</i>
SUBTOTAL CAPITAL IMPROVEMENTS PROJECTS	\$ 15,143.15

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$12,003.50
1020	Development/Project Reviews	\$5,025.00
1030	Non-fee and Preliminary Reviews	\$2,124.50
1040	Commission and TAC Meetings	\$1,708.50
1050	Surveys and Studies	\$148.50
1060	Water Quality/Monitoring	\$8,247.48
1070	Water Quantity	\$498.75
1080	Annual Flood Control Project Inspections	\$1,698.50
1090	Municipal Plan Review	\$0.00
1100	Watershed Outlet Monitoring Program	\$195.00
1110	Annual XP-SWMM Model Updates/Reviews	\$0.00
1120	TMDL Implementation Reporting	\$0.00
1000	SUBTOTAL ENGINEERING & MONITORING	\$31,649.73
2000	PLANNING	
2010	Next Generation Plan Development	\$4,849.50
2000	SUBTOTAL PLANNING	\$4,849.50
4000	OUTREACH & EDUCATION	
4010	Publications/Annual Report	\$0.00
4000	SUBTOTAL OUTREACH & EDUCATION	\$0.00
--	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$15,143.15
TOTAL PAYABLE		\$51,642.38

Please note our new remittance address

Remittance address:

Lockbox 446104

PO Box 64825

St Paul, MN 55164-0825

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

