



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

Page # 1
Invoice # 23270051-2023-9
Project # 23/27-0051
Client # 59
November 2, 2023

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
September 30, 2023 through October 27, 2023

1000—ENGINEERING & MONITORING

1010—Technical Services

Communications with administrator, Plymouth staff and internal staff regarding moving up Plymouth Creek CIP project and feasibility study to one year earlier; provide October grant tracking information to administrator; communications with administrator, Minnetonka staff, and Alternate Commissioner Harwell regarding stormwater BMP maintenance at completed development (Marsh Run/The Birke) in Minnetonka; communications with administrator and internal staff regarding removal of cattails in Medicine Lake; internal communications regarding 2024 staffing needs; update BCWMC/Barr calendar, workflow and staff responsibilities document; and communications with administrator and Hennepin County staff regarding work on Old Bassett Creek tunnel.

James P. Herbert, Principal Engineer/Scientist 3.5 hours @ \$215.00 per hour	\$	752.50
Karen L. Chandler, Principal Engineer/Scientist 6.7 hours @ \$200.00 per hour	\$	1,340.00
Technicians/Administrative	\$	75.50
<i>Subtotal, Technical Services</i>	\$	2,168.00

Monthly Meeting Preparation

Communications/coordination with administrator and internal staff regarding draft/final agenda and meeting packet for October Commission meeting; review/edit September meeting minutes; prepare for October Commission meeting, including review meeting packet, pre-meeting conference call with Chair Cesnik and administrator, and prepare Engineer communications regarding Atlas 15; and communications with administrator and internal staff regarding follow-up items from October Commission meeting and upcoming meeting agenda items.

James P. Herbert, Principal Engineer/Scientist 4.5 hours @ \$215.00 per hour	\$	967.50
Karen L. Chandler, Principal Engineer/Scientist 12.7 hours @ \$200.00 per hour	\$	2,540.00

Technicians/Administrative	\$	<u>605.00</u>
<i>Subtotal, Monthly Meeting Preparation</i>	\$	<i>4,112.50</i>
Subtotal 1010—Technical Services	\$	<u>6,280.50</u>

1020—Development/Project Reviews

Wagner Spraytech Phase 3B (2021-23)

Review information from applicant regarding dredging forebays; and communications with applicant and city staff.

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$215.00 per hour	\$	215.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 1.0 hours @ \$110.00 per hour	\$	<u>110.00</u>
<i>Subtotal, Wagner Spraytech Phase 3B (2021-23).....</i>	<i>\$</i>	<i>325.00</i>

Marsh Run II-Multifamily Apts (2023-04)

Review revised grading, drainage, erosion control and water quality plans; and communicating with applicant about outstanding questions.

James P. Herbert, Principal Engineer/Scientist 4.2 hours @ \$215.00 per hour	\$	903.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 3.5 hours @ \$110.00 per hour	\$	<u>385.00</u>
<i>Subtotal, Marsh Run II-Multifamily Apts (2023-04).....</i>	<i>\$</i>	<i>1,288.00</i>

18035 Old Rockford Rd. Multi-Unit Res (2023-20)

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

James P. Herbert, Principal Engineer/Scientist 2.8 hours @ \$215.00 per hour	\$	602.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 2.3 hours @ \$110.00 per hour	\$	253.00
Technicians/Administrative	\$	<u>52.50</u>
<i>Subtotal, 18035 Old Rockford Rd. Multi-Unit Res (2023-20).....</i>	<i>\$</i>	<i>907.50</i>

Spire Credit Union Plymouth (2023-21)

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

James P. Herbert, Principal Engineer/Scientist 1.5 hours @ \$215.00 per hour	\$	322.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I 0.8 hours @ \$110.00 per hour	\$	<u>88.00</u>
<i>Subtotal, Spire Credit Union Plymouth (2023-21).....</i>	<i>\$</i>	<i>410.50</i>

Medicine Lake Lift Station Floodplain Mitigation (2023-22)

Review floodplain compensatory storage, grading, drainage, and erosion control plans; communications with and meeting with applicant; review revised floodplain compensatory storage, grading, drainage, and erosion control plans; prepare and send comment letter to city representatives; and prepare project draft review memo for November Commission meeting.

James P. Herbert, Principal Engineer/Scientist 5.1 hours @ \$215.00 per hour	\$ 1,096.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I 12.8 hours @ \$110.00 per hour	\$ 1,408.00
Technicians/Administrative	<u>\$ 105.00</u>
<i>Subtotal, Medicine Lake Lift Station Floodplain Mitigation (2023-22).....</i>	<i>\$ 2,609.50</i>
Subtotal, 1020—Development/Project Reviews	\$ 5,540.50

1030—Non-Fee and Preliminary Reviews

Preliminary Reviews

Review MDNR appropriations permit 2023-2935 for construction dewatering (prepare response to MDNR regarding location of the tunnel); review MDNR appropriations permit 2023-3043 for irrigation of former Hollydale golf course; review of modified MDNR appropriations permit 1975-6216 for the installation of new wells in Robbinsdale as an alternative to replacing existing wells; and communications with Medicine Lake’s consultant regarding freeboard requirements for a proposed picnic shelter that will be constructed in the floodplain;

James P. Herbert, Principal Engineer/Scientist 5.5 hours @ \$215.00 per hour	\$ 1,182.50
<i>Subtotal, Preliminary Reviews</i>	<i>\$ 1,182.50</i>

Non-Fee Reviews

<i>Subtotal, Non-Fee Reviews.....</i>	<i>\$ 0.00</i>
Subtotal, 1030— Non-Fee and Preliminary Reviews.....	\$ 1,182.50

1040—Commission and TAC Meetings

Attend October 4 TAC meeting and October 19 Commission meeting.

Karen L. Chandler, Principal Engineer/Scientist 5.2 hours @ \$200.00 per hour	\$ 1,040.00
Subtotal, 1040—Commission and TAC Meetings.....	\$ 1,040.00

1050—Surveys and Studies

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

General Water Quality

Internal communications regarding MPRB cyanobacteria visual identification tool; communications

with administrator, MPCA staff, and internal staff regarding on-site meeting at BCWMC macroinvertebrate sampling locations; communications with internal staff regarding proposed Medicine Lake TMDL assessment and draft preliminary scope; and communications with administrator and internal staff regarding 2024 Medicine Lake monitoring cost estimate.

Karen L. Chandler, Principal Engineer/Scientist 0.9 hours @ \$200.00 per hour	\$ 180.00
Gregory Wilson, Engineer/Scientist/Specialist IV 2.5 hours @ \$190.00 per hour	\$ 475.00
Meg Rattei, Engineer/Scientist/Specialist III 3.2 hours @ \$150.00 per hour	\$ <u>480.00</u>
<i>Subtotal, General Water Quality</i>	\$ 1,135.00

Plymouth Creek Monitoring Year 2

Review and approve MCES lab invoice for analyses of samples collected from Plymouth Creek during the second quarter; set up new login for MCES lab reports' website; expenses include MCES lab charges.

Christopher Bonick, Engineer/Scientist/Specialist II 1.5 hours @ \$140.00 per hour	\$ 210.00
Sub Consultant (MCES)	\$ <u>123.93</u>
<i>Subtotal, Plymouth Creek Monitoring Year 2.....</i>	\$ 332.93
Subtotal, 1060—Water Quality/Monitoring.....	\$ 1,467.93

1070—Water Quantity

Subtotal, 1070—Water Quantity	\$ 0.00
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1080—Annual Flood Control Project Inspections

Prepare for and conduct annual flood control inspections, including equipment preparation; file inspection notes and photos; prepare flood control inspection summary memo; and communications with administrator, Commission attorney, and Minneapolis staff regarding revised Bassett Creek Tunnel cooperative agreement with City of Minneapolis regarding tunnel operations, maintenance, and inspection;

James P. Herbert, Principal Engineer/Scientist 2.3 hours @ \$215.00 per hour	\$ 494.50
Josh Phillips, Engineer/Scientist/Specialist II 11.5 hours @ \$140.00 per hour	\$ 1,610.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 18.9 hours @ \$110.00 per hour	\$ 2,079.00
Technicians/Administrative	\$ 24.00
Expenses (vehicle/mileage/iPad/gloves)	\$ <u>168.86</u>
Subtotal, 1080—Annual Flood Control Project Inspections	\$ 4,376.36

1090—Municipal Plan Review

Subtotal, 1090— Municipal Plan Review\$ 0.00

1100—Watershed Outlet Monitoring Program

Perform October 6 flow measurement at WOMP station; submit Survey 123 form to MCES; communications with MCES staff; download Sontek flow file; review flow measurement results; and monitoring-related expenses.

Chris Bonick, Engineer/Scientist/Specialist II
 5.5 hours @ \$140.00 per hour \$ 770.00

Expenses (vehicle/mileage/iPad/Sontek ADV) \$ 146.26

Subtotal, 1100—Watershed Outlet Monitoring Program.....\$ 916.26

1110—XPSWMM Model Updates/Reviews

Subtotal, 1110—XPSWMM Model Updates/Reviews\$ 0.00

1130—APM/AIS

Communications with administrator, aquatic plant survey subconsultant (Endangered Resource Services), and internal staff regarding October post-treatment Eurasian watermilfoil assessment in Sweeney Lake, ERS boat access to Sweeney Lake, and hybrid watermilfoil found during October 14 Sweeney Lake assessment; communications with SePro and herbicide applicator (PLM) regarding treatment of hybrid watermilfoil in Sweeney Lake including use of ProcellaCOR and treatment timing (spring vs fall); download and review plant survey data and pictures of the hybrid watermilfoil found in Sweeney Lake; prepare hybrid watermilfoil herbicide treatment map; process and place hybrid watermilfoil plants from Sweeney Lake in plant press; and notify MDNR staff of the discovery of hybrid watermilfoil in Sweeney Lake.

Karen L. Chandler, Principal Engineer/Scientist
 0.2 hours @ \$200.00 per hour \$ 40.00

Meg Rattei, Engineer/Scientist/Specialist III
 8.7 hours @ \$150.00 per hour \$ 1,305.00

Kelly Wild, Engineer/Scientist/Specialist II
 0.5 hours @ \$125.00 per hour \$ 62.50

Sub Consultant (*Endangered Resource Services*) \$ 990.00

Subtotal, 1130—APM/AIS\$ 2,397.50

SUBTOTAL, 1000—ENGINEERING & MONITORING\$ 23,201.55

2000—PLANNING

2010—Next Generation Plan Development

Plan for and attend the October 4 PSC meeting to discuss priority issues; meeting with administrator to review outcomes of the October 4 PSC meeting; revise draft goals for waterbody and watershed quality and chloride and incorporate water quality data; meet with the administrator to discuss agenda and materials for the November 1 PSC meeting; and develop and review materials for the November 1 PSC meeting.

Karen L. Chandler, Principal Engineer/Scientist 8.5 hours @ \$200.00 per hour	\$ 1,700.00
Greg Williams, Engineer/Scientist/Specialist III 11.5 hours @ \$165.00 per hour	\$ 1,897.50
Subtotal, 2010—Next Generation Plan Development	\$ 3,597.50

2020—Next Generation Plan Development – Address Complex Issues

Subtotal, 2010—Next Generation Plan Development– Address Complex Issues	\$ 0.00
SUBTOTAL, 2000—PLANNING	\$ 3,597.50

4000—OUTREACH & EDUCATION

4040—Tour

Prepare for, attend and present at October 2 watershed tour.

James P. Herbert, Principal Engineer/Scientist 5.2 hours @ \$215.00 per hour	\$ 1,118.00
Karen L. Chandler, Principal Engineer/Scientist 6.9 hours @ \$200.00 per hour	\$ 1,380.00
Stephanie Johnson, Engineer/Scientist/Specialist IV 3.5 hours @ \$200.00 per hour	\$ 700.00
Expenses (mileage)	\$ 18.34
Subtotal, 4040—Tour	\$ 3,216.34

4010—Publications/Annual Report

Subtotal, 4010—Publications/Annual Report	\$ 0.00
SUBTOTAL, 4000—OUTREACH & EDUCATION	\$ 3,216.34

CAPITAL IMPROVEMENT PROJECTS

Schaper Pond Carp Management (SL-3)

Site visit to document source of erosion and follow-up on September 29 monitoring; communications regarding analytical testing and project status updates; expenses include monitoring-related expenses.

Karen L. Chandler, Principal Engineer/Scientist 0.2 hours @ \$200.00 per hour	\$ 40.00
Gregory Wilson, Engineer/Scientist/Specialist IV 5.0 hours @ \$190.00 per hour	\$ 950.00
Terri Olson, Engineer/Scientist/Specialist III 0.4 hours @ \$160.00 per hour	\$ 64.00
Sub Consultant (RMB Enviro. Lab.)	\$ 686.40
Expenses (mileage)	\$ 29.48
<i>Subtotal, Schaper Pond Carp Management (SL-3)</i>	<i>\$ 1,769.88</i>

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

Review draft settlement agreement, internal meeting, and provide comments to administrator and Commission attorney; internal communications regarding future dredging options and recommendations; and internal communications regarding final project report.

James P. Herbert, Principal Engineer/Scientist 6.2 hours @ \$215.00 per hour	\$	1,333.00
Karen L. Chandler, Principal Engineer/Scientist 2.8 hours @ \$200.00 per hour	\$	560.00
Patrick Brockamp, Engineer/Scientist/Specialist III 3.6 hours @ \$150.00 per hour	\$	<u>540.00</u>
<i>Subtotal, Main Stem Lagoon Dredging Project (2021) (BC-7).....</i>		<i>\$ 2,433.00</i>

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

Construction Services, Project Management and Environmental Assistance

Conduct site observations; coordination with contractor; pre-work for developing project records drawing; drafting Response Action Plan implementation report; and project management.

Karen L. Chandler, Principal Engineer/Scientist 0.3 hours @ \$200.00 per hour	\$	60.00
Stephanie Johnson, Engineer/Scientist/Specialist IV 1.4 hours @ \$200.00 per hour	\$	280.00
Jennifer Brekken, Engineer/Scientist/Specialist IV 3.6 hours @ \$185.00 per hour	\$	666.00
Greg Fransen, Engineer/Scientist/Specialist III 2.1 hours @ \$155.00 per hour	\$	325.50
Josh Phillips, Engineer/Scientist/Specialist II 4.2 hours @ \$140.00 per hour	\$	588.00
Kelly Wild, Engineer/Scientist/Specialist II 0.7 hours @ \$125.00 per hour	\$	87.50
Elizabeth Boehm, Engineer/Scientist/Specialist I 0.8 hours @ \$ 95.00 per hour	\$	76.00
Seth Stump, Engineer/Scientist/Specialist I 4.4 hours @ \$110.00 per hour	\$	484.00
Expenses (mileage).....	\$	<u>15.07</u>
<i>Subtotal, Construction Services, Project Management and Environmental Assistance.....</i>		<i>\$ 2,582.07</i>

Addition of 36-inch Pipe

<i>Subtotal, Addition of 36-inch Pipe</i>	<i>\$</i>	<i>0.00</i>
<i>Subtotal, Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5)</i>	<i>\$</i>	<i>2,582.07</i>

Parkers Lake Chloride Reduction Project (2021) (PL-7)

Finalize conceptual design and capital/O&M cost estimates for chloride treatment alternatives; revise/update chloride mass balance modeling to estimate benefit of chloride treatment alternatives; develop and send draft technical memorandum for review and comment; and communications regarding project status updates.

Karen L. Chandler, Principal Engineer/Scientist 2.9 hours @ \$200.00 per hour	\$ 580.00
Bryan Oakley, Engineer/Scientist/Specialist IV 4.2 hours @ \$200.00 per hour	\$ 840.00
Gregory Wilson, Engineer/Scientist/Specialist IV 22.6 hours @ \$190.00 per hour	\$ 4,294.00
Sara BinAhmed-Menzies, Engineer/Scientist/Specialist I 0.1 hours @ \$115.00 per hour	\$ 11.50
Ann Brunton, Engineer/Scientist/Specialist I 4.6 hours @ \$110.00 per hour	\$ 506.00
<i>Subtotal, Parkers Lake Chloride Reduction Project (2021) (PL-7)</i>	<i>\$ 6,231.50</i>

Plymouth Creek Restoration Feasibility Study

Communications with administrator, Plymouth staff and internal staff regarding kick-off meeting, stakeholder meeting, and scheduling site visit and tree survey; hold internal kick-off meeting; prepare for site visit; and internal communications related to setting up GIS base map and ArcGIS Online web maps for field data collection.

Karen L. Chandler, Principal Engineer/Scientist 5.1 hours @ \$200.00 per hour	\$ 1,020.00
Jessica Olson, Engineer/Scientist/Specialist III 2.5 hours @ \$170.00 per hour	\$ 425.00
Brendan Dougherty, Engineer/Scientist/Specialist II 1.2 hours @ \$135.00 per hour	\$ 162.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 6.0 hours @ \$110.00 per hour	\$ 660.00
Megan Niess, Engineer/Scientist/Specialist I 0.5 hours @ \$115.00 per hour	\$ 57.50
<i>Subtotal, Plymouth Creek Restoration Feasibility Study</i>	<i>\$ 2,389.50</i>

SUBTOTAL CAPITAL IMPROVEMENT PROJECTS\$ 15,405.95

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$6,280.50
1020	Development/Project Reviews	\$5,540.50
1030	Non-fee and Preliminary Reviews	\$1,182.50
1040	Commission and TAC Meetings	\$1,040.00
1050	Surveys and Studies	\$0.00
1060	Water Quality/Monitoring	\$1,467.93
1070	Water Quantity	\$0.00
1080	Annual Flood Control Project Inspections	\$4,376.36
1090	Municipal Plan Review	\$0.00
1100	Watershed Outlet Monitoring Program	\$916.26
1110	Annual XP-SWMM Model Updates/Reviews	\$0.00
1120	TMDL Implementation Reporting	\$0.00
1130	APM/AIS	\$2,397.50
1000	SUBTOTAL ENGINEERING & MONITORING	\$23,201.55
2000	PLANNING	
2010	Next Generation Plan Development	\$3,597.50
2020	Next Generation Plan Development - Address Complex Issues	\$0.00
2000	SUBTOTAL PLANNING	\$3,597.50
4000	OUTREACH & EDUCATION	
4040	Education and Public Outreach	\$3,216.34
4010	Publications/Annual Report	\$0.00
4000	SUBTOTAL OUTREACH & EDUCATION	\$3,216.34
--	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$15,405.95
TOTAL PAYABLE		\$45,421.34

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.

