



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

Page # 1
Invoice # 23270051-2023-5
Project # 23/27-0051
Client # 59
July 7, 2023

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
May 27, 2023 through June 30, 2023

1000—ENGINEERING & MONITORING

1010—Technical Services

Prepare for and attend meeting with administrator regarding City of Medicine Lake's revised Jevne Park concept plan; communications with administrator, City of Medicine Lake representatives and city consultant regarding the Medicine Lake Peninsula Road Street and Utility Project and scheduling a meeting to discuss the project; communications with administrator, Shingle Creek WMC Engineer, and internal staff regarding BCWMC parcel list based on new SCWMC boundary, and review/confirm parcel list based on boundary change; communications with administrator regarding dissolved oxygen monitoring of Sweeney Branch; communications with internal staff regarding status of Golden Valley CIP project; communications with administrator regarding upcoming CIP project schedule and other items; communications with administrator, Met Council consultant and internal staff, and complete polls for Blue Line LRT meeting; communications with administrator regarding creating graphs of BCWMC-measured water levels, and find/convert normal water levels to NAVD88 for Northwood and Medicine Lakes for future water level graphs; prepare notes for 2025 budgeting regarding potential conversion of XP SWMM to PCSWMM; communications with administrator and internal staff regarding Hennepin County staff question about parcel watershed IDs; send grant tracking information to administrator; and prepare and send communications files to the library.

James P. Herbert, Principal Engineer/Scientist 1.7 hours @ \$215.00 per hour	\$ 365.50
Karen L. Chandler, Principal Engineer/Scientist 11.1 hours @ \$200.00 per hour	\$ 2,220.00
Jen Koehler, Engineer/Scientist/Specialist IV 0.6 hours @ \$175.00 per hour	\$ 105.00
Greg Williams, Engineer/Scientist/Specialist III 4.5 hours @ \$165.00 per hour	\$ 742.50
<i>Subtotal, Technical Services</i>	<i>\$ 3,433.00</i>

Monthly Meeting Preparation

Communications/coordination with administrator and internal staff regarding draft/final agenda and

meeting packet for June Commission meeting; review/edit May meeting minutes; prepare draft memo for June Commission meeting regarding additional information for the Ponderosa Woods stream restoration project feasibility study, including comparison of alternatives (pros and cons), comparison of proposed project pollutant load reductions to the pollutant load reduction required in the Medicine Lake TMDL, supplemental details on water quality benefits of buckthorn removal and revegetation, and details regarding existing permanent easements and potential additional easements required, provide draft memo to administrator and Plymouth staff for review, meet with administrator and Plymouth staff to discuss memo, and revise/final memo for June Commission meeting; prepare for June Commission meeting, including prepare draft Ponderosa Woods and Main Stem stream restoration project presentations for administrator review and revise/final presentations, review meeting packet, pre-meeting conference call with Chair Cesnik and administrator, and prepare Engineer communications; communications with administrator and internal staff regarding follow-up items from June Commission meeting and upcoming meeting agenda items; and prepare draft presentation regarding Lost Lake and Northwood Lake 2022 water quality results for July Commission meeting.

James P. Herbert, Principal Engineer/Scientist 2.6 hours @ \$215.00 per hour	\$	559.00
Karen L. Chandler, Principal Engineer/Scientist 26.3 hours @ \$200.00 per hour	\$	5,260.00
Greg Wilson, Engineer/Scientist/Specialist IV 1.5 hours @ \$190.00 per hour	\$	285.00
Jessica Olson, Engineer/Scientist/Specialist III 2.1 hours @ \$170.00 per hour	\$	357.00
Meg Rattei, Engineer/Scientist/Specialist III 3.3 hours @ \$150.00 per hour	\$	495.00
Tyler Conley, Engineer/Scientist/Specialist II 0.3 hours @ \$130.00 per hour	\$	39.00
Kallie Doeden, Engineer/Scientist/Specialist II 17.0 hours @ \$130.00 per hour	\$	2,210.00
Aaron Brown, Engineer/Scientist/Specialist I 12.6 hours @ \$110.00 per hour	\$	1,386.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 3.3 hours @ \$110.00 per hour	\$	363.00
Katie Kramarczuk, Engineer/Scientist/Specialist I 1.8 hours @ \$100.00 per hour	\$	180.00
Technicians/Administrative	\$	<u>721.00</u>
<i>Subtotal, Monthly Meeting Preparation</i>	<i>\$</i>	<i>11,855.00</i>

Robbinsdale WCA LGU Admin

Prepare for and conduct wetland delineation site review; and prepare and submit WCA Notice of Decision for wetland boundary and type approval of Sochacki Park project.

Karen Wold, Engineer/Scientist/Specialist III
4.6 hours @ \$150.00 per hour \$ 690.00
Subtotal, Robbinsdale WCA LGU Admin \$ 690.00

TAC Preparation

Review/edit memo to TAC regarding Plymouth's stormwater management banking concept; prepare for June 7 TAC meeting; and review/edit administrator's draft memos for June Commission meeting regarding Plymouth stormwater treatment banking concept and TAC recommendations regarding investment income policy.

James P. Herbert, Principal Engineer/Scientist
3.7 hours @ \$215.00 per hour \$ 795.50
Karen L. Chandler, Principal Engineer/Scientist
2.7 hours @ \$200.00 per hour \$ 540.00
Subtotal, TAC Preparation \$ 1,335.50
Subtotal 1010—Technical Services \$ **17,313.50**

1020—Development/Project Reviews

Marsh Run II-Multifamily Apts (2023-04)

Meeting with consultant to discuss comments letter.

James P. Herbert, Principal Engineer/Scientist
1.4 hours @ \$215.00 per hour \$ 301.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I
1.3 hours @ \$110.00 per hour \$ 143.00
Subtotal, Marsh Run II-Multifamily Apts (2023-04) \$ 444.00

Wagner Spray Initial Phase 3B (2023-07)

Review two sets of revised grading, drainage, erosion control and water quality plans; prepare and send comment letter to city staff; communications with consultant and city staff; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist
5.0 hours @ \$215.00 per hour \$ 1,075.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I
4.0 hours @ \$110.00 per hour \$ 440.00
Subtotal, Wagner Spray Initial Phase 3B (2023-07) \$ 1,515.00

GVCC Reseeding and Hole 8 (2023-10)

Review two revised plan sets from three separate consultants, including grading, drainage, erosion control, floodplain mitigation and golf course improvement plans; prepare and send comment letter to city staff; prepare and send approval letter to city staff; and follow-up communications with applicant.

James P. Herbert, Principal Engineer/Scientist
2.6 hours @ \$215.00 per hour \$ 559.00

Gabrielle Campagnola, Engineer/Scientist/Specialist I
1.4 hours @ \$110.00 per hour \$ 154.00
Subtotal, GVCC Reseeding and Hole 8 (2023-10).....\$ 713.00

Luther Genesis Dealership (2023-11)

Review two sets of revised grading, drainage, erosion control and water quality plans; prepare and send comment letter to city staff; prepare and send approval letter to city staff; and discussion with city staff regarding water quality modeling for development.

James P. Herbert, Principal Engineer/Scientist
3.0 hours @ \$215.00 per hour \$ 645.00

Gabrielle Campagnola, Engineer/Scientist/Specialist I
2.6 hours @ \$110.00 per hour \$ 286.00

Subtotal, Luther Genesis Dealership (2023-11).....\$ 931.00

Sentinel GV-Multifamily-Bank Bldg (2023-12)

Review revised grading, drainage, erosion control and water quality plans; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist
1.3 hours @ \$215.00 per hour \$ 279.50

Gabrielle Campagnola, Engineer/Scientist/Specialist I
2.7 hours @ \$110.00 per hour \$ 297.00

Subtotal, Sentinel GV-Multifamily-Bank Bldg (2023-12).....\$ 576.50

Thomas Ave N Townhomes (2023-13)

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

James P. Herbert, Principal Engineer/Scientist
2.5 hours @ \$215.00 per hour \$ 537.50

Gabrielle Campagnola, Engineer/Scientist/Specialist I
3.1 hours @ \$110.00 per hour \$ 341.00

Technicians/Administrative \$ 52.50

Expenses (postage) \$ 0.60

Subtotal, Thomas Ave N Townhomes (2023-13).....\$ 931.60

Hennepin Co. Fiber Optic Cable (2023-14)

Review erosion control plans for two utility crossings under Bassett Creek; and coordinate with consultant and County regarding application process.

James P. Herbert, Principal Engineer/Scientist
3.5 hours @ \$215.00 per hour \$ 752.50

Gabrielle Campagnola, Engineer/Scientist/Specialist I
5.3 hours @ \$110.00 per hour \$ 583.00

Subtotal, Hennepin Co. Fiber Optic Cable (2023-14).....\$ 1,335.50

Hennepin Co. Sheriff Headquarters (2023-15)

Review grading, drainage, erosion control and water quality plans; and coordination with applicant and Minnehaha Creek Watershed District staff due to proposed development location within the Bassett Creek and Minnehaha Creek watersheds.

James P. Herbert, Principal Engineer/Scientist 2.1 hours @ \$215.00 per hour	\$	451.50
Louise Heffernan, Engineer/Scientist/Specialist II 0.3 hours @ \$135.00 per hour	\$	40.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I 11.3 hours @ \$110.00 per hour	\$	1,243.00
Technicians/Administrative	\$	<u>105.00</u>
<i>Subtotal, Hennepin Co. Sheriff Headquarters (2023-15).....</i>	<i>\$</i>	<i>1,840.00</i>
Subtotal, 1020—Development/Project Reviews	\$	8,286.60

1030—Non-Fee and Preliminary Reviews

Preliminary Reviews

Review MNDNR permit application 2023-1201 regarding BNSF bridge replacement; review MNDNR permit application 1986-6081 for irrigation of Hollydale golf course development; review of MNDNR permit application 2023-0284 for dewatering and provide comments regarding tunnel stability and impacts; and coordination with city of Golden Valley staff regarding project involving proposed fence in floodplain (determined a BCWMC application is not required).

James P. Herbert, Principal Engineer/Scientist 6.1 hours @ \$215.00 per hour	\$	<u>1,311.50</u>
<i>Subtotal, Preliminary Reviews</i>	<i>\$</i>	<i>1,311.50</i>

Non-Fee Reviews

<i>Subtotal, Non-Fee Reviews</i>	<i>\$</i>	<i>0.00</i>
Subtotal, 1030— Non-Fee and Preliminary Reviews	\$	1,311.50

1040—Commission and TAC Meetings

Attend June 7 TAC meeting and June 15 Commission meeting.

James P. Herbert, Principal Engineer/Scientist 2.5 hours @ \$215.00 per hour	\$	357.50
Karen L. Chandler, Principal Engineer/Scientist 6.0 hours @ \$200.00 per hour	\$	1,200.00
Jessica Olson, Engineer/Scientist/Specialist III 2.5 hours @ \$170.00 per hour	\$	425.00
Kallie Doeden, Engineer/Scientist/Specialist III 3.8 hours @ \$130.00 per hour	\$	494.00

Expenses (mileage).....	\$	32.10
Subtotal, 1040—Commission and TAC Meetings.....	\$	2,688.60

1050—Surveys and Studies

Subtotal, 1050—Surveys and Studies	\$	0.00
---	-----------	-------------

1060—Water Quality/Monitoring

Northwood-Lost Lake Report

Complete draft Northwood Lake and Lost Lake 2022 monitoring reports and submit to administrator for review; review and address administrator's comments, including communications with internal staff regarding curly-leaf pondweed treatment, impaired waters status, and aquatic plant FQI scores; revise water quality reports per administrator comments and send to administrator, along with responses to administrator's comments; and prepare draft presentation for July Commission meeting.

Karen L. Chandler, Principal Engineer/Scientist 8.1 hours @ \$200.00 per hour	\$	1,620.00
Greg Wilson, Engineer/Scientist/Specialist IV 0.5 hours @ \$190.00 per hour	\$	95.00
Meg Rattei, Engineer/Scientist/Specialist III 22.6 hours @ \$150.00 per hour	\$	3,390.00
Kelly Wild, Engineer/Scientist/Specialist II 0.9 hours @ \$125.00 per hour	\$	112.50
Technicians/Administrative	\$	588.00
<i>Subtotal, Northwood-Lost Lake Report.....</i>	<i>\$</i>	<i>5,805.50</i>

Sweeney Lk & Twin Lk 2023 Monitoring

Prepare for and perform June 13 out water quality monitoring; file field data and photos from June 13 monitoring; communications with administrator in response to question from homeowners association about Sweeney Lake water quality, including completing data comparison between 2020 and 2023 data; internal communications regarding water quality monitoring activities for BCWMC Commission meeting; analyze April 26 and June 13 Twin Lake zooplankton samples; analyze April 26 and June 13 Twin Lake, Sweeney Lake north basin and Sweeney Lake south basin phytoplankton samples; perform QA reviews of Sweeney Lake and Twin Lake laboratory data; and file chain of custody forms and lab reports; expenses include lab analyses charges for April 26 monitoring, and equipment and other monitoring-related expenses.

Greg Wilson, Engineer/Scientist/Specialist IV 0.5 hours @ \$190.00 per hour	\$	95.00
Terri Olson, Engineer/Scientist/Specialist III 0.3 hours @ \$160.00 per hour	\$	48.00
Meg Rattei, Engineer/Scientist/Specialist III 18.6 hours @ \$150.00 per hour	\$	2,790.00

Technicians/Administrative	\$	1,189.50
Subconsultant (RMB Environmental Lab)	\$	489.06
Expenses (filtration apparatus/vehicle/canoe/ice/bottle sampler/turbidimeter/mileage/water meter/zooplankton bottle & net)	\$	<u>288.00</u>
<i>Subtotal, Sweeney Lk & Twin Lk 2023 Monitoring.....</i>	<i>\$</i>	<i>4,899.56</i>

Plymouth Creek Monitoring Year 2

Prepare for continuous dissolved oxygen measurement on Plymouth Creek, including perform maintenance on and order new cap for dissolved oxygen sensor.

Christopher Bonick, Engineer/Scientist/Specialist II 2.5 hours @ \$140.00 per hour	\$	<u>350.00</u>
<i>Subtotal, Plymouth Creek Monitoring Year 2.....</i>	<i>\$</i>	<i>350.00</i>

Subtotal, 1060—Water Quality/Monitoring.....\$ 11,055.06

1070—Water Quantity

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

Technicians/Administrative	\$	840.00
Expenses (vehicle/mileage)	\$	<u>275.50</u>

Subtotal, 1070—Water Quantity\$ 1,115.50

1080—Annual Flood Control Project Inspections

Subtotal, 1080—Annual Flood Control Project Inspections.....\$ 0.00

1090— Municipal Plan Review

Minnetonka Water Resources Management Plan Amendment: review amendment; review/edit/add to administrator’s draft comments; and communications with administrator.

Karen L. Chandler, Principal Engineer/Scientist 8.1 hours @ \$200.00 per hour	\$	<u>1,620.00</u>
--	----	-----------------

Subtotal, 1090— Municipal Plan Review.....\$ 1,620.00

1100—Watershed Outlet Monitoring Program

Perform June 16, 2023 flow measurement at WOMP station.

Christopher Bonick, Engineer/Scientist/Specialist II 4.0 hours @ \$140.00 per hour	\$	560.00
Expenses (vehicle/mileage/ipad/sontek ADV)	\$	<u>146.91</u>

Subtotal, 1100—Watershed Outlet Monitoring Program.....\$ 706.91

1110—XPSWMM Model Updates/Reviews

Revise table summarizing development reviews with potential to be incorporated into future XPSWMM and P8 model updates.

Gabrielle Campagnola, Engineer/Scientist/Specialist I 0.2 hours @ \$110.00 per hour	\$	22.00
Subtotal, 1110—XPSWMM Model Updates/Reviews.....	\$	22.00
SUBTOTAL, 1000—ENGINEERING & MONITORING	\$	44,119.67

2000—PLANNING

2010—Next Generation Plan Development

Meeting with the administrator to review outcomes of the May 24 PSC meeting and plan for next PSC meeting; develop Plan development process flowchart and draft Plan Table of Contents, meet with administrator to review documents and plan for PSC meetings, and review/edit administrator's revised documents; review July 11 PSC meeting materials; and continue writing the land and water resources inventory portion of the Plan document, including tables and figures.

Karen L. Chandler, Principal Engineer/Scientist 11.4 hours @ \$200.00 per hour	\$	2,280.00
Greg Williams, Engineer/Scientist/Specialist III 5.3 hours @ \$165.00 per hour	\$	874.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I 1.8 hours @ \$110.00 per hour	\$	198.00
Subtotal, 2010—Next Generation Plan Development.....	\$	3,352.50

2020—Next Generation Plan Development – Address Complex Issues

Attend June 5 meeting with MPCA staff and administrator regarding stream health, biota and MPCA expectations, and follow-up communications with MPCA staff regarding scheduling an October field meeting to visit all Bassett Creek invertebrate monitoring reaches, and to provide 2015 and 2018 MIBI scores.

Karen L. Chandler, Principal Engineer/Scientist 1.2 hours @ \$200.00 per hour	\$	240.00
Meg Rattei, Engineer/Scientist/Specialist III 1.1 hours @ \$150.00 per hour	\$	165.00
Greg Williams, Engineer/Scientist/Specialist III 1.0 hours @ \$165.00 per hour	\$	165.00
Technicians/Administrative	\$	31.50
Subtotal, 2010—Next Generation Plan Development– Address Complex Issues	\$	601.50
SUBTOTAL, 2000—PLANNING.....	\$	3,954.00

4000—OUTREACH & EDUCATION

4010—Publications/Annual Report

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

CAPITAL IMPROVEMENT PROJECTS

Four Seasons Area Water Quality Project (NL-2)

Review/edit draft and revised drafts of cooperative agreement between the City of Plymouth and BCWMC; and communications with administrator and attorney.

Karen L. Chandler, Principal Engineer/Scientist	
2.6 hours @ \$200.00 per hour	\$ 520.00
<i>Subtotal, Four Seasons Area Water Quality Project (NL-2).....</i>	<i>\$ 520.00</i>

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

Review and organize site restoration photos; conduct site visit to review restoration; prepare draft Engineer's final opinion regarding notice of claim for overpayment and provide to Commission attorney for review; revise final opinion per attorney review and send to Contractor and Chair Cesnik; provide latest prevailing wage information to Minnesota Department of Labor and Industry; conduct site visit to measure restoration quantities; send final pay application quantities to contractor for review; mileage expenses; and project management and communications.

James P. Herbert, Principal Engineer/Scientist	
5.9 hours @ \$215.00 per hour	\$ 1,268.50
Karen L. Chandler, Principal Engineer/Scientist	
3.0 hours @ \$200.00 per hour	\$ 600.00
Patrick Brockamp, Engineer/Scientist/Specialist III	
10.4 hours @ \$150.00 per hour	\$ 1,560.00
Ann Brunton, Engineer/Scientist/Specialist I	
0.6 hours @ \$110.00 per hour	\$ 66.00
Expenses (mileage).....	\$ 44.38
<i>Subtotal, Main Stem Lagoon Dredging Project (2021) (BC-7).....</i>	<i>\$ 3,538.88</i>

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

Construction Services, Project Management and Environmental Assistance

Site observation; review payment request; begin Response Action Plan implementation report; and project coordination and management.

Stephanie Johnson, Engineer/Scientist/Specialist IV	
1.5 hours @ \$200.00 per hour	\$ 300.00
Jennifer Brekken, Engineer/Scientist/Specialist IV	
0.9 hours @ \$185.00 per hour	\$ 165.50
Josh Phillips, Engineer/Scientist/Specialist II	
0.9 hours @ \$140.00 per hour	\$ 126.00
<i>Subtotal, Construction Services, Project Management and Environmental Assistance.....</i>	<i>\$ 592.50</i>

Addition of 36-inch Pipe

<i>Subtotal, Addition of 36-inch Pipe.....</i>	<i>\$ 0.00</i>
--	----------------

*Subtotal, Bryn Mawr Meadows Water Quality Improvement Project
(2020) (BC-5) \$ 592.50*

Bassett Creek Main Stem Restoration, Regent Ave to Golden Valley Rd, Feasibility Study (2024) (CR-M)

Prepare final feasibility report and provide to administrator.

Jessica Olson, Engineer/Scientist/Specialist II
2.2 hours @ \$170.00 per hour \$ 374.00

*Subtotal, Bassett Creek Main Stem Restoration, Regent Ave to
Golden Valley Rd, Feasibility Study (2024) (CR-M) \$ 374.00*

Ponderosa Woods Stream Restoration Project Feasibility Study (2024) (ML-22)

Prepare final feasibility report and provide to administrator.

Kallie Doeden, Engineer/Scientist/Specialist II
3.2 hours @ \$130.00 per hour \$ 416.00

Subtotal, Ponderosa Woods Stream Restoration \$ 416.00

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

Compile/review 2022 and historical monitoring data; develop watershed and lake chloride mass balance computations; meet with Plymouth staff to scope chloride treatment alternative; arrange meeting with Plymouth and MNDNR staff to discuss permit requirements for chloride treatment alternative; and communications regarding project status updates.

Bryan Oakley, Engineer/Scientist/Specialist IV
4.1 hours @ \$200.00 per hour \$ 820.00

Gregory Wilson, Engineer/Scientist/Specialist IV
30.4 hours @ \$190.00 per hour \$ 5,776.00

Subtotal, Parkers Lake Chloride Reduction Project (2021) (PL-7) \$ 6,596.00

SUBTOTAL CAPITAL IMPROVEMENTS PROJECTS \$ 12,037.38

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$17,313.50
1020	Development/Project Reviews	\$8,286.60
1030	Non-fee and Preliminary Reviews	\$1,311.50
1040	Commission and TAC Meetings	\$2,688.60
1050	Surveys and Studies	\$0.00
1060	Water Quality/Monitoring	\$11,055.06
1070	Water Quantity	\$1,115.50
1080	Annual Flood Control Project Inspections	\$0.00
1090	Municipal Plan Review	\$1,620.00
1100	Watershed Outlet Monitoring Program	\$706.91
1110	Annual XP-SWMM Model Updates/Reviews	\$22.00
1120	TMDL Implementation Reporting	\$0.00
1000	SUBTOTAL ENGINEERING & MONITORING	\$44,119.67
2000	PLANNING	
2010	Next Generation Plan Development	\$3,352.50
2020	Next Generation Plan Development - Address Complex Issues	\$601.50
2000	SUBTOTAL PLANNING	\$3,954.00
4000	OUTREACH & EDUCATION	
4010	Publications/Annual Report	\$0.00
4000	SUBTOTAL OUTREACH & EDUCATION	\$0.00
--	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$12,037.38
TOTAL PAYABLE		\$60,111.05

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.

