



Ms. Catherine Cesnik Bassett Creek Watershed Management Commission 7800 Golden Valley Road Golden Valley, MN 55427 Page # 1 Invoice # 23270051-2023-10 Project # 23/27-0051 Client # 59 December 8, 2023

Invoice of Account with BARR ENGINEERING COMPANY

For professional services during the period of October 28, 2023 through December 1, 2023

1000—ENGINEERING & MONITORING

1010—Technical Services

Communications with administrator regarding future Crystal CIP project, SCWMC boundary, and BCWMC investment budget policy; provide November grant tracking information to administrator; review staff evaluation form and communications with administrator; and project management, including coordination with internal staff.

Karen L. Chandler, Principal Engineer/Scientist	
2.6 hours @ \$200.00 per hour	\$ 520.00
Subtotal. Technical Services	\$ 520.00

Monthly Meeting Preparation

Communications/coordination with administrator and internal staff regarding draft/final agenda and meeting packet for November Commission meeting; review/edit October meeting minutes; prepare for November Commission meeting, including prepare draft Parkers Lake chloride study presentation for November Commission meeting, provide to administrator for review, and revise and send final presentation to administrator, review meeting packet, and pre-meeting conference call with Chair Cesnik and administrator; and communications with administrator and internal staff regarding follow-up items from November Commission meeting and upcoming meeting agenda items.

James P. Herbert, Principal Engineer/Scientist 5.7 hours @ \$215.00 per hour\$	1,225.50
Karen L. Chandler, Principal Engineer/Scientist 16.4 hours @ \$200.00 per hour\$	3,280.00
Stephanie Johnson, Engineer/Scientist/Specialist IV 0.7 hours @ \$200.00 per hour\$	140.00
Gregory Wilson, Engineer/Scientist/Specialist IV 3.0 hours @ \$190.00 per hour\$	570.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 1.0 hours @ \$110.00 per hour\$	110.00

Technicians/Administrative\$	660.00
Subtotal, Monthly Meeting Preparation\$	5,985.50

Medicine Lake WCA LGU Administration

Medicine Lake Street and Utilities Improvements: review wetland application and request additional information from applicant; download and review updated wetland report and Joint Application Form and communications with applicant regarding missing items; internal communications regarding WCA status summary; review updated revised documentation from applicant and request clarification from applicant; meeting with applicant to clarify wetland impact discrepancies; download and review updated WCA application; review WCA no-loss rules, communication with applicant and internal staff regarding WCA rules and temporary wetland impacts; communications with TEP members regarding WCA application; review revised application; communications with applicant; and prepare and submit Notice of Decision for WCA no-loss and exemption approval.

Karen Wold, Engineer/Scientist/Specialist III	
14.3 hours @ \$150.00 per hour\$	2,145.00
Subtotal, Medicine Lake WCA LGU Administration\$	2,145.00

TAC Preparation

Prepare for December 6 TAC meeting, including communications with administrator and internal staff regarding draft agenda items, review/edit TAC meeting agenda document, and review final TAC agenda.

Subtotal 1010—Technical Services\$	9,330.50
Subtotal, TAC Preparation\$	680.00
3.4 hours @ \$200.00 per hour\$	680.00
Karen L. Chandler, Principal Engineer/Scientist	

1020—Development/Project Reviews

Peninsula Rd Street & Util Improvements (2021-36)

Review revised floodplain compensatory storage, grading, drainage, and erosion control plans.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$215.00 per hour	\$ 107.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I	
1.5 hours @ \$110.00 per hour	\$ <u>165.00</u>
Subtotal, Peninsula Rd Street & Util Improvements	\$ 272.50

Marsh Run II-Multifamily Apts (2023-04)

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 0.8 hours @ \$215.00 per hour\$	172.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 0.6 hours @ \$110.00 per hour\$_	66.00
Subtotal, Marsh Run II-Multifamily Apts (2023-04)\$	238.00

Medicine Lake Lift Station Floodplain Mitigation (2023-22)

Review two sets of revised floodplain compensatory storage, grading, drainage, and erosion control plans; communications with applicant; prepare project review memo for November Commission meeting and provide to administrator; and prepare and send conditional approval letter to city representatives.

James P. Herbert, Principal Engineer/Scientist 8.2 hours @ \$215.00 per hour\$	1,763.00
Karen L. Chandler, Principal Engineer/Scientist 0.8 hours @ \$200.00 per hour\$	160.00
Edward Anderson, Engineer/Scientist/Specialist I 0.5 hours @ \$115.00 per hour\$	57.50
Gabrielle Campagnola, Engineer/Scientist/Specialist I 7.6 hours @ \$110.00 per hour\$	836.00
Expenses (postage)\$	0.63
Subtotal, Medicine Lake Lift Station Floodplain Mitigation (2023-22)\$	2,817.13

Hopkins Crossroads Trail Improvements (2023-23)

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

James P. Herbert, Principal Engineer/Scientist	
2.8 hours @ \$215.00 per hour\$	602.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I	
4.7 hours @ \$110.00 per hour\$	517.00
Technicians/Administrative\$_	157.50
Subtotal, Hopkins Crossroads Trail Improvements (2023-23)\$	1,276.50

Honeywell International Bldg Improvements (2023-24)

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

James P. Herbert, Principal Engineer/Scientist 1.6 hours @ \$215.00 per hour\$	344.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I	
3.8 hours @ \$110.00 per hour\$	418.00
Technicians/Administrative\$	105.00
Expenses (postage)\$	0.63
Subtotal, Honeywell International Bldg Improvements (2023-24)\$	867.63
Subtotal, 1020—Development/Project Reviews\$	5,471.76

1030—Non-Fee and Preliminary Reviews

Preliminary Reviews

Correspondence with Hennepin County staff regarding proposed work at old Bassett Creek tunnel (found project will not require BCWMC review); review modified MDNR appropriations permit 1975-6216 for the installation of new wells in Robbinsdale as an alternative to replacing existing wells; preliminary communications with developer and Crystal staff regarding a development at 6202 and 6213 36th Avenue and provide the floodplain elevation for the project area; and communications with Golden Valley staff and administrator regarding drainage and floodplain issues on a residential property at 3830 Bassett Creek Drive, attend site meeting at the property per request of Golden Valley staff, and provide follow-up information.

Subtotal, 1040—Commission and TAC Meetings	\$ 1,371.38
Expenses (mileage)	\$ 16.38
Gregory Wilson, Engineer/Scientist/Specialist IV 2.5 hours @ \$190.00 per hour	\$ 475.00
Karen L. Chandler, Principal Engineer/Scientist 4.4 hours @ \$200.00 per hour	\$ 880.00
1040—Commission and TAC Meetings Attend November 15 Commission meeting.	
Subtotal, 1030— Non-Fee and Preliminary Reviews	\$ 1,671.88
Subtotal, Non-Fee Reviews	\$ 0.00
Non-Fee Reviews	
Subtotal, Preliminary Reviews	\$ 1,671.88
Expenses (mileage)	\$ 16.38
James P. Herbert, Principal Engineer/Scientist 7.7 hours @ \$215.00 per hour	\$ 1,655.50

1050—Surveys and Studies

Medicine Lake TMDL Assessment Scope

Develop preliminary list of scope items for the Medicine Lake TMDL assessment scope and provide to administrator and Plymouth staff for review; per Commission direction at November meeting, prepare draft work scope memo for Medicine Lake TMDL assessment and provide to administrator for review; and internal communications regarding work scope.

2,485.00
<u>1045.00</u>
1,440.00

1060—Water Quality/Monitoring

General Water Quality

Prepare work scope and cost estimate to perform Medicine Lake monitoring in 2024, including communications with TRPD staff to provide sample collection and laboratory analysis services and communications with administrator and internal staff, and provide work scope and cost estimate to administrator for Budget Committee meeting; review 2024 draft impaired waters list, including noting added listings and missing listings in BCWMC, provide information to administrator regarding current, new and missing impaired waters listing, including Crane Lake chloride summary data, provide additional information to administrator regarding new listings in response to questions, including providing supporting information regarding Lost Lake nutrient listing, Medicine Lake fish biota listing, Sweeney Branch E. coli listing, and Plymouth Creek benthic invertebrates listing, and provide additional information regarding potential listing of North Branch Bassett Creek for benthic invertebrates; and internal communications regarding water quality-related work tasks.

Karen L. Chandler, Principal Engineer/Scientist 6.6 hours @ \$200.00 per hour\$	1,320.00
Gregory Wilson, Engineer/Scientist/Specialist IV 5.0 hours @ \$190.00 per hour\$	950.00
Meg Rattei, Engineer/Scientist/Specialist III 10.1 hours @ \$150.00 per hour\$	1,515.00
Technicians/Administrative\$_	42.00
Subtotal, General Water Quality\$	3,827.00

Sweeney Lk & Twin Lk 2023 Monitoring

Prepare Twin Lake and Sweeney Lake data summaries for the preparation of isopleths; and address EQUIS software issue.

Subtotal, 1060—Water Quality/Monitoring\$	5,215.00
Subtotal, Sweeney Lk & Twin Lk 2023 Monitoring\$	1,388.00
Technicians/Administrative\$_	8.00
9.2 hours @ \$150.00 per hour\$	1,380.00
Meg Rattei, Engineer/Scientist/Specialist III	

1070—Water Quantity

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

Subtotal, 1070—Water Quantity\$	1,220.50
Expenses (vehicle/mileage)\$_	223.00
Technicians/Administrative\$	997.50

1080—Annual Flood Control Project Inspections

Prepare/revise draft annual flood control inspection report, and scan field notes from annual inspection; review preliminary Golden Valley Country Club plans in vicinity of Bassett Creek Flood Control Project – Stage 2C2, meet with Golden Valley staff, and provide recommendation on plans to Golden Valley staff and administrator; and review revised Bassett Creek Tunnel cooperative

agreement with City of Minneapolis regarding tunnel operations, maintenance, and inspection, communications with administrator and Commission attorney, and meeting with administrator, Commission attorney and Minneapolis staff regarding agreement.

James P. Herbert, Principal Engineer/Scientist 7.3 hours @ \$215.00 per hour	.\$	1,569.50
Josh Phillips, Engineer/Scientist/Specialist II 0.9 hours @ \$140.00 per hour	.\$	126.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 3.1 hours @ \$110.00 per hour	.\$_	341.00
Subtotal, 1080—Annual Flood Control Project Inspections	.\$	2,036.50
1090—Municipal Plan Review		
Subtotal, 1090— Municipal Plan Review	.\$	0.00
1100—Watershed Outlet Monitoring Program Communications with MCES staff regarding tape down marking, including file re	vie	w.
Chris Bonick, Engineer/Scientist/Specialist II 1.0 hours @ \$140.00 per hour	. \$	140.00
Subtotal, 1100—Watershed Outlet Monitoring Program	.\$	140.00
1110—XPSWMM Model Updates/Reviews		
1110—XPSWMM Model Updates/Reviews Compile information on recently implemented projects within the BCWMC; and pre TAC members regarding updates.	par	e draft email to
Compile information on recently implemented projects within the BCWMC; and pre		e draft email to 100.00
Compile information on recently implemented projects within the BCWMC; and pre TAC members regarding updates. Karen L. Chandler, Principal Engineer/Scientist	.\$	100.00
Compile information on recently implemented projects within the BCWMC; and pre TAC members regarding updates. Karen L. Chandler, Principal Engineer/Scientist 0.5 hours @ \$200.00 per hour	.\$_ .\$	100.00
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2000—PLANNING

2010—Next Generation Plan Development

Plan for and attend the November 1 PSC meeting to discuss priority issues; meet with administrator to review outcomes of the November 1 PSC meeting and discuss agenda for the December 6 PSC meeting; review and provide edits to materials for the December 6 PSC meeting; plan for the first Planning TAC meeting; and complete a draft of the Land and Water Resources Inventory and format as a Plan Appendix for PSC review.

Karen L. Chandler, Principal Engineer/Scientist 19.0 hours @ \$200.00 per hour	\$	3,800.00
Greg Williams, Engineer/Scientist/Specialist III 29.8 hours @ \$165.00 per hour	\$	4,917.00
Subtotal, 2010—Next Generation Plan Development	\$	8,717.00
2020—Next Generation Plan Development - Address Complex Issues		
Subtotal, 2010—Next Generation Plan Development– Address Complex Issues	\$	0.00
SUBTOTAL, 2000—PLANNING		8,717.00
4000—OUTREACH & EDUCATION		
SUBTOTAL, 4000—OUTREACH & EDUCATION	\$	0.00
CAPITAL IMPROVEMENT PROJECTS		
Schaper Pond Carp Management (SL-3) Communications regarding analytical testing and project status updates; expenses related expenses.	s inclu	ide monitoring-
Gregory Wilson, Engineer/Scientist/Specialist IV 0.5 hours @ \$190.00 per hour	\$	95.00
Terri Olson, Engineer/Scientist/Specialist III 0.2 hours @ \$160.00 per hour	\$	32.00
Sub Consultant (RMB Enviro. Lab.)	\$	264.00
Subtotal, Schaper Pond Carp Management (SL-3)	\$	391.00
Main Stem Lagoon Dredging Project (2021) (BC-7) Prepare record drawings; communications with administrator and internal staff reginternal discussion regarding lagoon project next steps with focus on Lagoon G; prost estimate and calculations for dredging Lagoon G; and communications with a	repar	e concept level
James P. Herbert, Principal Engineer/Scientist 1.8 hours @ \$215.00 per hour	\$	387.00
Karen L. Chandler, Principal Engineer/Scientist 1.4 hours @ \$200.00 per hour	\$	280.00
Patrick Brockamp, Engineer/Scientist/Specialist III 5.7 hours @ \$150.00 per hour	\$	855.00
Owen Richey, Engineer/Scientist/Specialist I 8.3 hours @ \$105.00 per hour	\$	871.5 <u>0</u>
Subtotal, Main Stem Lagoon Dredging Project (2021) (BC-7)	\$	2,393.50

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

Construction Services, Project Management and Environmental Assistance

Develop project record drawings; coordinate with contractor; model as-built diversion weir in XPSWMM and P8; prepare draft Response Action Plan implementation report; and project management.

Dan Fetter, Principal Engineer/Scientist 3.5 hours @ \$230.00 per hour	\$ 805.	.00
Karen L. Chandler, Principal Engineer/Scientist 0.7 hours @ \$200.00 per hour	\$ 140.	.00
Stephanie Johnson, Engineer/Scientist/Specialist IV 3.7 hours @ \$200.00 per hour	\$ 740.	.00
Jennifer Brekken, Engineer/Scientist/Specialist IV 1.6 hours @ \$185.00 per hour	\$ 296.	.00
Michelle Kimble, Engineer/Scientist/Specialist IV 1.0 hours @ \$175.00 per hour	\$ 175.	.00
Greg Fransen, Engineer/Scientist/Specialist III 9.2 hours @ \$155.00 per hour	\$ 1,426.	.00
Josh Phillips, Engineer/Scientist/Specialist II 5.2 hours @ \$140.00 per hour	\$ 728.	.00
Jacob Daire, Engineer/Scientist/Specialist II 12.6 hours @ \$120.00 per hour	\$ 1,512.	.00
Alexander Puetz, Engineer/Scientist/Specialist II 3.0 hours @ \$135.00 per hour	\$ 405.	.00
Lukas Ellefson, Engineer/Scientist/Specialist I 5.5 hours @ \$105.00 per hour	\$ 577.	.50
Seth Stump, Engineer/Scientist/Specialist I 1.3 hours @ \$110.00 per hour	\$ <u>143.</u>	.00
Subtotal, Construction Services, Project Management and Environmental Assistance		.50
Addition of 36-inch Pipe		
Subtotal, Addition of 36-inch Pipe	\$ 0.	.00
Subtotal, Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5)	\$ 6,947.	.50
Parkers Lake Chloride Reduction Project (2021) (PL-7)		
Study of Chloride Extraction/Dilution for Parkers Lake		

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Study of Chloride Extraction/Dilution for Parkers Lake

Meeting with administrator and Plymouth staff to respond to questions/comments on draft technical memorandum; finalize and send technical memorandum to administrator for November Commission meeting packet; and communications regarding project status updates.

Karen L. Chandler, Principal Engineer/Scientist	
0.3 hours @ \$200.00 per hour\$	60.00

Bryan Oakley, Engineer/Scientist/Specialist IV 1.1 hours @ \$200.00 per hour\$	220.00
Gregory Wilson, Engineer/Scientist/Specialist IV 4.4 hours @ \$190.00 per hour\$	836.00
Subtotal, Study of Chloride Extraction/Dilution for Parkers Lake\$	1,116.00
rkers Lake Chloride Management Follow-up Work	

Parker

Communications with administrator and internal staff regarding Parkers Lake holistic chloride management follow-up work and next steps.

Karen L. Chandler, Principal Engineer/Scientist	
0.6 hours @ \$200.00 per hour\$	120.00
Subtotal, Parkers Lake Chloride Management Follow-up Work\$	120.00
Subtotal, Parkers Lake Chloride Reduction Project (2021) (PL-7)\$	1,236.00

Plymouth Creek Restoration Feasibility Study

Communications with administrator, Plymouth staff and internal staff regarding site visits and stakeholder meeting; attend November kick-off meeting with administrator, alternate commissioner Vadali, and Plymouth staff; prepare for and conduct site walk and tree survey; process data from site visits; perform desktop assessments for wetlands, threatened and endangered species, cultural resources, and environmental review; send bi-weekly email updates to BCWMC administrator and Plymouth staff; and internal communications related to site visit, ArcGIS Online web maps for field data collection, and desktop assessments.

Mary Sands, Principal Engineer/Scientist 0.5 hours @ \$240.00 per hour\$	120.00	
Karen L. Chandler, Principal Engineer/Scientist 7.9 hours @ \$200.00 per hour\$	1,580.00	
Jessica Olson, Engineer/Scientist/Specialist III 38.9 hours @ \$170.00 per hour\$	6,613.00	
Veronica Parsell, Engineer/Scientist/Specialist III 1.0 hours @ \$155.00 per hour\$	155.00	
Chris Bonick, Engineer/Scientist/Specialist II 4.0 hours @ \$140.00 per hour\$	560.00	
Brendan Dougherty, Engineer/Scientist/Specialist II 14.3 hours @ \$135.00 per hour\$	1,930.50	
Jessica Butler, Engineer/Scientist/Specialist II 2.5 hours @ \$130.00 per hour\$	325.00	
Tyler Conley, Engineer/Scientist/Specialist II 4.4 hours @ \$130.00 per hour\$	572.00	
Matt Danzl, Engineer/Scientist/Specialist II 4.3 hours @ \$135.00 per hour\$	580.50	
Kallie Doeden, Engineer/Scientist/Specialist II 47.8 hours @ \$130.00 per hour\$	6,214.00	

Kelly Wild, Engineer/Scientist/Specialist II 0.3 hours @ \$125.00 per hour\$	37.50
Elizabeth Boehm, Engineer/Scientist/Specialist I 29.6 hours @ \$ 95.00 per hour\$	2,812.00
Aaron Brown, Engineer/Scientist/Specialist I 7.5 hours @ \$110.00 per hour\$	825.00
Gabrielle Campagnola, Engineer/Scientist/Specialist I 57.6 hours @ \$110.00 per hour\$	6,336.00
Maya Geiselhart, Engineer/Scientist/Specialist I 7.4 hours @ \$110.00 per hour\$	814.00
Allison Hawley, Engineer/Scientist/Specialist I 8.4 hours @ \$100.00 per hour\$	840.00
Anna Kadrie, Engineer/Scientist/Specialist I 4.3 hours @ \$ 95.00 per hour\$	408.50
Elizabeth Maher, Engineer/Scientist/Specialist I 3.2 hours @ \$110.00 per hour\$	352.00
Megan Niess, Engineer/Scientist/Specialist I 11.9 hours @ \$115.00 per hour\$	1,368.50
Technicians/Administrative\$	291.00
Expenses (mileage/iPad/survey set/ADV)\$_	737.37
Subtotal, Plymouth Creek Restoration Feasibility Study\$	33,470.87
SUBTOTAL CAPITAL IMPROVEMENT PROJECTS\$	44,438.87

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$9,330.50
1020	Development/Project Reviews	\$5,471.76
1030	Non-fee and Preliminary Reviews	\$1,671.88
1040	Commission and TAC Meetings	\$1,371.38
1050	Surveys and Studies	\$2,485.00
1060	Water Quality/Monitoring	\$5,215.00
1070	Water Quantity	\$1,220.50
1080	Annual Flood Control Project Inspections	\$2,036.50
1090	Municipal Plan Review	\$0.00
1100	Watershed Outlet Monitoring Program	\$140.00
1110	Annual XP-SWMM Model Updates/Reviews	\$309.00
1120	TMDL Implementation Reporting	\$0.00
1130	APM/AIS	\$0.00
1000	SUBTOTAL ENGINEERING & MONITORING	\$29,251.52
2000	PLANNING	
2010	Next Generation Plan Development	\$8,717.00
2020	Next Generation Plan Development - Address Complex Issues	\$0.00
2000	SUBTOTAL PLANNING	\$8,717.00
4000	OUTREACH & EDUCATION	
4040	Tour	\$0.00
4010	Publications/Annual Report	\$0.00
4000	SUBTOTAL OUTREACH & EDUCATION	\$0.00
	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$44,438.87
TOTAL PAYABL	E	\$82,407.39

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.