Ms. Catherine Cesnik Bassett Creek Watershed Management Commission PO Box 270825 Golden Valley, MN 55427 Page # 1 Invoice # 23270051-2024-1 Project # 23/27-0051 Client # 59 March 8, 2024

Invoice of Account with BARR ENGINEERING COMPANY

For professional services during the period of January 27, 2024 through March 1, 2024

1000—ENGINEERING & MONITORING

1010—Technical Services

Internal communications regarding 2024 project and budget setup; returning the check for productivity building addition application fee (sent us a check for water quality and rate control review, but is not required); communications with Minneapolis staff and administrator regarding review of SWLRT construction over Bassett Creek tunnel; provide general grant tracking information and specific MPCA resiliency grant information (application and grant package) to administrator; communications with property owner, New Hope staff, administrator and internal staff regarding Northwood Lake OHW, 100-year floodplain and gazebo for 8964 Northwood Parkway, including provide property map; provide the BCWMC floodplain elevation for 8421 Wayzata Boulevard at the request of Golden Valley; provide floodplain elevation and corresponding map to Golden Valley staff for building at 5351 Duluth St; update BCWMC project review costs; communications with administrator, internal staff and St Louis Park staff regarding annual meeting, and attend annual meeting with St. Louis Park staff, internal communications regarding linear standards and private BMP O&M; communications with administrator and internal staff regarding 2025 budgeting process and deadlines; and communications with Medicine Lake mayor and administrator regarding bald eagle avoidance and minimization measures.

James P. Herbert, Principal Engineer/Scientist 6.6 hours @ \$220.00 per hour\$	1,452.00
Karen L. Chandler, Principal Engineer/Scientist 8.3 hours @ \$210.00 per hour\$	1,743.00
Stephanie Johnson, Consultant/Advisor 6.7 hours @ \$205.00 per hour\$	1,373.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 2.5 hours @ \$120.00 per hour\$	300.00
Tyler Conley, Engineer/Scientist/Specialist II 0.7 hours @ \$140.00 per hour\$	98.00

Technicians/Administrative\$	57.50
Subtotal, Technical Services\$	5.024.00

Monthly Meeting Preparation

Communications/coordination with administrator and internal staff regarding draft/final agenda and meeting packet for February Commission meeting; review/edit January meeting minutes; prepare for February Commission meeting, including internal discussion regarding wetlands, buffers and information to require for submittal, review/edit administrator's draft wetland and buffer memo for February Commission meeting, 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 February Commission meeting and upcoming meeting agenda items.

James P. Herbert, Principal Engineer/Scientist 3.0 hours @ \$220.00 per hour\$	660.00
Karen L. Chandler, Principal Engineer/Scientist 15.4 hours @ \$210.00 per hour\$	3,234.00
Stephanie Johnson, Consultant/Advisor 0.8 hours @ \$205.00 per hour\$	164.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 0.8 hours @ \$120.00 per hour\$	96.00
Technicians/Administrative\$_	1,012.00
Subtotal, Monthly Meeting Preparation\$	5,166.00

TAC Preparation

Prepare memo with draft work scope and budget for March 7 TAC meeting regarding XPSWMM to PCSWMM conversion and model update, including funding and grant options; and review TAC meeting packet.

Subtotal 1010—Technical Services\$	15,210.00
Subtotal, TAC Preparation\$	5,020.00
Jennifer Koehler, Engineer/Scientist/Specialist IV 8.5 hours @ \$185.00 per hour\$_	1,572.50
Stephanie Johnson, Consultant/Advisor 3.6 hours @ \$205.00 per hour\$	738.00
Karen L. Chandler, Principal Engineer/Scientist 12.1 hours @ \$210.00 per hour\$	2,541.00
Brandon Barnes, Principal Engineer/Scientist 0.3 hours @ \$195.00 per hour\$	58.50
James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$220.00 per hour\$	110.00

1020—Development/Project Reviews

Jet 55 Industrial (2023-26)

Review grading, drainage, erosion control plans, and water quality plans; prepare and send comment

letter to city staff; communications with applicant; and review revised grading, drainage, erosion	l
control plans, and water quality plans.	

control plans, and water quality plans.		
James P. Herbert, Principal Engineer/Scientist 1.7 hours @ \$215.00 per hour	\$	374.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II		
4.6 hours @ \$120.00 per hour		552.00
Subtotal, Jet 55 Industrial (2023-26)	\$	926.00
Schaal 2023 Riprap (2023-27) Review revised shoreline improvement plans; communications with applican approval letter to city staff.	it; and p	repare and send
James P. Herbert, Principal Engineer/Scientist 2.7 hours @ \$220.00 per hour	\$	594.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 1.5 hours @ \$120.00 per hour	\$	180.00
Subtotal, Schaal 2023 Riprap (2023-27)	\$	774.00
<u>Productivity Inc. Bldg Addition (2023-28)</u> Review grading, drainage, and erosion control plans; and prepare and send staff.	approva	l letter to city
James P. Herbert, Principal Engineer/Scientist 1.5 hours @ \$220.00 per hour	\$	330.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 3.8 hours @ \$120.00 per hour	\$	456.00
Technicians/Administrative	\$	157.50
Subtotal, Productivity Inc. Bldg Addition (2023-28)	\$	943.50
2024 Utility Reconstruction Crystal (2024-01) Review grading, drainage, and erosion control plans; prepare and send com and review revised grading, drainage, and erosion control plans.	ment let	ter to city staff;
James P. Herbert, Principal Engineer/Scientist 2.8 hours @ \$220.00 per hour	\$	616.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 4.3 hours @ \$120.00 per hour	\$	516.00
Technicians/Administrative	\$	105.00
Subtotal, 2024 Utility Reconstruction Crystal (2024-01)	\$	1,237.00
2024 Street Rehab Project Ply (2024-02) Review grading, drainage, and erosion control plans.		
James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$220.00 per hour	\$	220.00

Gabrielle Campagnola, Engineer/Scientist/Specialist II		
3.4 hours @ \$120.00 per hour		408.00
Technicians/Administrative		52.50
Subtotal, 2024 Street Rehab Project_Ply (2024-02)	\$	680.50
<u>Plymouth Blvd Rehab Project (2024-03)</u> Preliminary review of project materials.		
Gabrielle Campagnola, Engineer/Scientist/Specialist II 0.4 hours @ \$120.00 per hour	\$_	48.00
Subtotal, Plymouth Blvd Rehab Project (2024-03)	\$	48.00
Subtotal, 1020—Development/Project Reviews	\$	4,609.00
1030—Non-Fee and Preliminary Reviews		
Coordination and communications with administrator, Plymouth staff, and P regarding the Schmidt Woods Park project that will involve multiple jurisdic Minneapolis Park and Recreation Board regarding drainage for the Theodor and preliminary communications with developer regarding BCWMC requirer replacement and extension near Currie Avenue in Minneapolis.	tions; co e Wirth	oordination wi grading proje
James P. Herbert, Principal Engineer/Scientist 6.5 hours @ \$220.00 per hour	\$	1,430.00
Karen L. Chandler, Principal Engineer/Scientist 0.7 hours @ \$210.00 per hour	\$	147.00
Jennifer Koehler, Engineer/Scientist/Specialist IV 0.3 hours @ \$185.00 per hour	\$_	<u>55.50</u>
Subtotal, Preliminary Reviews	\$	1,632.50
Non-Fee Reviews Review MDNR permit for Marsh Run II in Minnetonka.		
James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$220.00 per hour	\$_	110.00
Subtotal, Non-Fee Reviews	\$	110.00
Subtotal, 1030— Non-Fee and Preliminary Reviews	\$	1,742.50
1040—Commission and TAC Meetings		
Attend February 7 TAC meeting and February 15 Commission meeting.		
Karen L. Chandler, Principal Engineer/Scientist 5.5 hours @ \$210.00 per hour	\$	1,155.00
Stephanie Johnson, Consultant/Advisor	¢	207.50

1.5 hours @ \$205.00 per hour.....\$

307.50

Jennifer Koehler, Engineer/Scientist/Specialist IV 1.1 hours @ \$185.00 per hour\$\$	203.50
Subtotal, 1040—Commission and TAC Meetings\$	
1050—Surveys and Studies	
Subtotal, 1050—Surveys and Studies\$	0.00
1060—Water Quality/Monitoring	
General Water Quality	

Internal communications regarding changes in MCES total phosphorus reporting levels for WOMP and BCWMC stream monitoring samples; review Medicine Lake Fish IBI, review MNDNR upcoming Medicine Lake fisheries management plan, and communications with administrator regarding process and comparison to other lakes; and reviewing and filing MPRB's Spring and Wirth Lake water quality monitoring data.

Karen L. Chandler, Principal Engineer/Scientist 1.9 hours @ \$210.00 per hour	\$	399.00
Gregory Wilson, Engineer/Scientist/Specialist IV 1.0 hours @ \$195.00 per hour	\$	195.00
Meg Rattei, Engineer/Scientist/Specialist III 2.2 hours @ \$155.00 per hour	\$	341.00
Technicians/Administrative	\$	52.50
Subtotal, General Water Quality	.\$	987.50

Plymouth Creek Report

Perform QAQC of 2022 and 2023 Three Rivers Park District Plymouth Creek data; prepare data summary and graphs for Plymouth Creek report; and internal communications regarding Plymouth Creek report.

Meg Rattei, Engineer/Scientist/Specialist III	
9.0 hours @ \$155.00 per hour\$	1,395.00
Chris Bonick, Engineer/Scientist/Specialist III	
16.0 hours @ \$145.00 per hour\$	2,320.00
Subtotal, Plymouth Creek Report\$	3,715.00

Sweeney Lk & Twin Lk 2023 Monitoring

Edit and lay out the Sweeney Lake report in InDesign and internal communications about report completion.

Meg Rattei, Engineer/Scientist/Specialist III	
0.4 hours @ \$155.00 per hour\$	62.00
Technicians/Administrative\$_	1,029.50
Subtotal, Sweeney Lk & Twin Lk 2023 Monitoring\$	1,091.50

North Branch Monitoring (Year 1)

Select, procure quote and purchase a new cell modem for the North Branch monitoring station; obtain a quote for replacement cables for the monitoring equipment; retrieve monitoring equipment from

Sweeney Branch site and perform bench test on equipment; visit the North Branch monitoring station to prepare for equipment installation; install and rewire the radar water level sensor; program and install the datalogger at the North Branch monitoring location; visit the North Branch monitoring location to check ice conditions; clean up debris in the stream beneath the radar water level sensor, and test the monitoring equipment; and purchase and install batteries to run the monitoring station. Expenses include the purchase of a new cell modem from Campbell Scientific, Inc., a new lock for the monitoring station, vehicle use, and mileage expenses.

Meg Rattei, Engineer/Scientist/Specialist III 0.9 hours @ \$155.00 per hour\$	139.50
Chris Bonick, Engineer/Scientist/Specialist III 30.5 hours @ \$145.00 per hour\$	4,422.50
Technicians/Administrative\$	583.00
Expenses (Campbell Scientific/vehicle/mileage)\$\$	1,743.50
Subtotal, North Branch Monitoring (Year 1)\$	6,888.50
Parkers Lk Monitoring Order sample bottles from RMB laboratories for monitoring AlS suitability parameters; custody forms for AlS suitability monitoring; prepare the 2024 Three Rivers Park Districtions.	

Order sample bottles from RMB laboratories for monitoring AIS suitability parameters; prepare chain of custody forms for AIS suitability monitoring; prepare the 2024 Three Rivers Park District subconsultant contract for Parkers Lake monitoring; and internal communications on 2024 Parkers Lake monitoring.

Meg Rattei, Engineer/Scientist/Specialist III 6.9 hours @ \$155.00 per hour\$	1,069.50
Terri Olson, Engineer/Scientist/Specialist III 0.2 hours @ \$165.00 per hour\$	33.00
Technicians/Administrative\$_	66.00
Subtotal, Parkers Lk Monitoring\$	1,168.50

Westwood Lk Monitoring

Order sample bottles from RMB laboratory and prepare chain of custody forms for 2024 lake monitoring.

Terri Olson, Engineer/Scientist/Specialist III	
0.9 hours @ \$165.00 per hour\$	148.50
Technicians/Administrative\$_	88.00
Subtotal, Westwood Lk Monitoring\$	236.50

Cavanaugh Lk Monitoring

Order sample bottles from RMB laboratory, prepare chain of custody forms for 2024 lake monitoring, and communications with homeowner on obtaining access for 2024 Cavanaugh Lake monitoring.

Terri Olson, Engineer/Scientist/Specialist III	
0.8 hours @ \$165.00 per hour\$	132.00
Technicians/Administrative\$_	220.00
Subtotal, Cavanaugh Lk Monitoring\$	352.00

Medicine Lk Monitoring

Order sample bottles from RMB laboratories for AIS suitability monitoring; prepare chain of custody forms for 2024 AIS suitability monitoring; prepare the 2024 Three Rivers Park District subconsultant contract for Medicine Lake monitoring; and internal communications on 2024 Medicine Lake monitoring.

Karen L. Chandler, Principal Engineer/Scientist 0.3 hours @ \$210.00 per hour\$	63.00
Meg Rattei, Engineer/Scientist/Specialist III 1.2 hours @ \$155.00 per hour\$	186.00
Terri Olson, Engineer/Scientist/Specialist III 0.2 hours @ \$165.00 per hour\$	33.00
Technicians/Administrative\$_	55.00
Subtotal, Medicine Lk Monitoring\$	337.00
Subtotal, 1060—Water Quality/Monitoring\$	14,776.50
1070—Water Quantity Measure and review lake elevations as part of the lake-gauging program.	
Technicians/Administrative\$	1,122.00
Expenses(vehicle/mileage)\$_	182.00
Subtotal, 1070—Water Quantity\$	1,304.00
1080—Annual Flood Control Project Inspections	
Subtotal, 1080—Annual Flood Control Project Inspections\$	
1090—Municipal Plan Review	
Subtotal, 1090— Municipal Plan Review\$	0.00
1100—Watershed Outlet Monitoring Program	
Subtotal, 1100—Watershed Outlet Monitoring Program\$	0.00
1110—XPSWMM Model Updates/Reviews	
Subtotal, 1110—XPSWMM Model Updates/Reviews\$	0.00

1120—APM/AIS

Prepare, finalize and send subconsultant contract to Endangered Resource Services, LLC for 2024 plant surveys of Sweeney Lake, Twin Lake, and ponds upstream from Sweeney Lake; communications with administrator and internal staff regarding impacts of early ice-off on Sweeney Lake on timing of pretreatment plant survey; respond to administrator's questions regarding pre-treatment plant survey timing and EWM treatment.

Karen L. Chandler, Principal Engineer/Scientist	
2.3 hours @ \$210.00 per hour\$	483.00

	Rattei, Engineer/Scientist/Specialist III
1,131.50	7.3 hours @ \$155.00 per hour\$
	Subtotal, 1130—APM/AIS\$
40,922.50	SUBTOTAL, 1000—ENGINEERING & MONITORING\$

2000—PLANNING

2010—Next Generation Plan Development

Export final results and close the stakeholder survey; review and summarize outcomes of the March 29, 2023 Technical Advisory Committee (TAC) meeting regarding recommendations for linear standards; prepare for, attend, and participate in the February 7, 2024 PSC meeting; prepare draft issue statements, desired future outcomes, measurable goals, and potential implementation actions related to flooding and climate resiliency; update waterbody classification input data (Appendix C of 2015 Plan) for waterbody priority discussion; meet with the administrator to prepare for the March 7 PSC meeting; and review and comment on draft materials for the March 7 PSC meeting, including an updated Plan development schedule.

SUBTOTAL, 4000—OUTREACH & EDUCATION\$	0.00	
4040—Education & Public Outreach		
4000—OUTREACH & EDUCATION		
SUBTOTAL, 2000—PLANNING\$	6,982.00	
Subtotal, 2010—Next Generation Plan Development– Address Complex Issues \$	0.00	
2020—Next Generation Plan Development - Address Complex Issues		
Subtotal, 2010—Next Generation Plan Development\$	6,982.00	
Technicians/Administrative\$_	72.50	
Greg Williams, Engineer/Scientist/Specialist III 16.6 hours @ \$170.00 per hour\$	2,822.00	
Stephanie Johnson, Consultant/Advisor 1.5 hours @ \$205.00 per hour\$	307.50	
Karen L. Chandler, Principal Engineer/Scientist 18.0 hours @ \$210.00 per hour\$	3,780.00	

SPECIAL PROJECTS

Medicine Lake TMDL Status Assessment

Compile/review/evaluate updated lake, stormwater, FLUX modeling and sediment monitoring data; prepared/send existing BMP mapping and solicit BMP updates from project partners; prepare project update for Commission meeting.

Gregory Wilson, Engineer/Scientist/Specialist IV	
20.3 hours @ \$195.00 per hour\$	3,958.50

Joshua Vosejpka, Engineer/Scientist/Specialist I 1.5 hours @ \$115.00 per hour\$\$	172.50
Subtotal, Medicine Lake TMDL Status Assessment\$	4,131.00
SUBTOTAL, SPECIAL PROJECTS\$	4,131.00
CAPITAL IMPROVEMENT PROJECTS	
Schaper Pond and Sweeney Lake Carp Management (SL-3) Communications and subcontract development with Carp Solutions regarding upcoming survey/box netting and adaptive management; and internal communications regarding management efforts for NMCWD and potential relevance to Schaper Pond and Sween.	g carp
Karen L. Chandler, Principal Engineer/Scientist 1.6 hours @ \$210.00 per hour\$	336.00
Janna Kieffer, Principal Engineer/Scientist 0.5 hours @ \$210.00 per hour\$	105.00
Gregory Wilson, Engineer/Scientist/Specialist IV 6.2 hours @ \$195.00 per hour\$	1,209.00
Subtotal, Schaper Pond and Sweeney Lake Carp Management\$	1,650.00
Subtotal, Schaper Pond and Sweeney Lake Carp Management (SL-3).\$	1,650.00
Main Stem Lagoon Dredging Project (2021) (BC-7) Project planning.	
Patrick Brockamp, Engineer/Scientist/Specialist III 0.2 hours @ \$160.00 per hour\$	32.00
Subtotal, Main Stem Lagoon Dredging Project (2021) (BC-7)\$	32.00
Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5)	
<u>Construction Services, Project Management and Environmental Assistance</u> Follow-up on RAP implementation plan; and project management.	
Dan Fetter, Principal Engineer/Scientist 0.3 hours @ \$245.00 per hour\$	73.50
Stephanie Johnson, Consultant/Advisor 0.7 hours @ \$205.00 per hour\$	143.50
Subtotal, Construction Services, Project Management and Environmental Assistance\$	217.00
Addition of 36-inch Pipe	
Subtotal, Addition of 36-inch Pipe\$	0.00
Subtotal, Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5)\$	217.00

<u>Parkers Lake Chloride Reduction Project – Parkers Lake Chloride Management Follow-up Work (2021)</u> (PL-7)

Communications with administrator and internal staff regarding Parkers Lake holistic chloride management planning work tasks and coordination with project partners.

Karen L. Chandler, Principal Engineer/Scientist 1.2 hours @ \$210.00 per hour	\$ 252.00
Gregory Wilson, Engineer/Scientist/Specialist IV 4.0 hours @ \$195.00 per hour	\$ 780.00
Subtotal, Parkers Lake Chloride Reduction Project – Parkers Lake Chloride Management Follow-up Work (2021) (PL-7)	\$ 1,032.00

Plymouth Creek Restoration Feasibility Study

Communications with Plymouth staff and internal staff regarding public outreach meeting and design concepts; prepare sketch concept designs in GIS; update feasibility report text; send bi-weekly email updates to administrator and Plymouth staff; and internal communications regarding public outreach meeting, concept designs, XP-SWMM model outputs, invasive species management, site prioritization, and desktop assessments.

SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	14,322.50
Subtotal, Plymouth Creek Restoration Feasibility Study	11,391.50
Technicians/Administrative	1,102.00
David Jorgensen, Engineer/Scientist/Specialist I 7.1 hours @ \$95.00 per hour	674.50
Anna Kadrie, Engineer/Scientist/Specialist I 1.0 hours @ \$100.00 per hour	100.00
Elizabeth Boehm, Engineer/Scientist/Specialist I 4.6 hours @ \$105.00 per hour	483.00
Megan Niess, Engineer/Scientist/Specialist II 2.9 hours @ \$120.00 per hour	348.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 22.4 hours @ \$120.00 per hour	2,688.00
Kallie Doeden, Engineer/Scientist/Specialist II 6.7 hours @ \$145.00 per hour	904.50
Brendan Dougherty, Engineer/Scientist/Specialist III 0.5 hours @ \$145.00 per hour	72.50
Jessica Olson, Engineer/Scientist/Specialist III 26.4 hours @ \$175.00 per hour	4,620.00
Karen L. Chandler, Principal Engineer/Scientist 1.9 hours @ \$210.00 per hour	399.00

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$15,210.00
1020	Development/Project Reviews	\$4,609.00
1030	Non-fee and Preliminary Reviews	\$1,742.50
1040	Commission and TAC Meetings	\$1,666.00
1050	Surveys and Studies	\$0.00
1060	Water Quality/Monitoring	\$14,776.50
1070	Water Quantity	\$1,304.00
1080	Flood Control Project	\$0.00
1090	Municipal Plan Review	\$0.00
1100	Watershed Outlet Monitoring Program	\$0.00
1110	Annual XP-SWMM Model Updates/Reviews	\$0.00
1120	APM/AIS	\$1,614.50
1000	SUBTOTAL ENGINEERING & MONITORING	\$40,922.50
2000	PLANNING	
2010	Next Generation Plan Development	\$6,982.00
2020	Next Generation Plan Development - Address Complex Issues	\$0.00
2000	SUBTOTAL PLANNING	\$6,982.00
4000	OUTREACH & EDUCATION	
4040	Education & Public Outreach	\$0.00
4010	Publications/Annual Report	\$0.00
4000	SUBTOTAL OUTREACH & EDUCATION	\$0.00
	SPECIAL PROJECTS [4]	\$4,131.00
	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$14,322.50
TOTAL PAYABL	E	\$66,358.00

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.