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Ms. Catherine Cesnik Bassett Creek Watershed Management Commission PO Box 270825 Golden Valley, MN 55427

Page # 1 Invoice # 23270051-2024-4 Project # 23/27-0051

Client # 59 June 7, 2024

Invoice of Account with BARR ENGINEERING COMPANY

For professional services during the period of April 27, 2024 through May 31, 2024

1000—ENGINEERING & MONITORING

1010—Technical Services

Update table of BCWMC project review costs; update and supply GIS data to University of MN staff, per request; develop work scope (and equipment costs) for the first phase of work for the Crane Lake Chloride Reduction Demonstration Project Feasibility Study at Ridgedale Mall, including monitoring, modeling and assessment of chlorides, and communications with administrator and Minnetonka staff regarding feasibility study work scope; internal communications regarding 2025 budget; provide XPSWMM model to Plymouth consultant for the Plymouth Ice Arena area, and follow-up communications in response to questions; communications with administrator regarding lien waiver for development fee, Bassett Creek tunnel news story, grant tracking and 2025 budget; check-in meeting with administrator; communications with administrator, Golden Valley staff, Carp Solutions and internal staff regarding coordination of Schaper Pond lift station relocation construction project with carp survey and box netting activities; communications with Golden Valley staff and develop document regarding member city contact information for BCWMC communications; and internal communications and preparation of summary regarding H&H and water quality watershed model benefits for use in planning for CIP project operation and maintenance, in support of potential BCWMC maintenance levy request, and provide summary to administrator and Commission attorney.

James P. Herbert, Principal Engineer/Scientist 3.0 hours @ \$220.00 per hour\$	660.00
Karen L. Chandler, Principal Engineer/Scientist 14.8 hours @ \$210.00 per hour	3,108.00
Stephanie Johnson, Consultant/Advisor 2.9 hours @ \$205.00 per hour	5 594.50
Jen Koehler, Engineer/Scientist/Specialist IV 0.5 hours @ \$185.00 per hour	92.50
Gregory Wilson, Engineer/Scientist/Specialist IV 16.5 hours @ \$195.00 per hour	3,217.50
Greg Williams, Engineer/Scientist/Specialist III 1.0 hours @ \$170.00 per hour\$	5 170.00

Chris Bonick, Engineer/Scientist/Specialist III 3.0 hours @ \$145.00 per hour\$	¢	435.00
Lulu Fang, Engineer/Scientist/Specialist II	۲	433.00
1.5 hours @ \$135.00 per hour	\$	202.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II		
3.5 hours @ \$120.00 per hour	\$	420.00
Subtotal, Technical Services \$	\$	8,900.00

Monthly Meeting Preparation

Communications/coordination with administrator and internal staff regarding draft/final agenda and meeting packet for May Commission meeting; review/edit administrator's wetland and stream buffer review memo for May Commission meeting; review/edit April meeting minutes; prepare for May Commission meeting, including review meeting packet, pre-meeting conference call with Chair Cesnik and administrator, communications with administrator regarding potential review costs for Plymouth Creek design project, and review WCA rules and statutes regarding wetland buffers for buffer agenda item; and communications with administrator and internal staff regarding follow-up items from May Commission meeting and upcoming meeting agenda items.

James P. Herbert, Principal Engineer/Scientist 4.8 hours @ \$220.00 per hour\$	1,056.00
Karen L. Chandler, Principal Engineer/Scientist 16.1 hours @ \$210.00 per hour\$	3,381.00
Stephanie Johnson, Consultant/Advisor 6.2 hours @ \$205.00 per hour\$	1,271.00
Karen Wold, Engineer/Scientist/Specialist III 0.7 hours @ \$155.00 per hour\$	108.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 0.8 hours @ \$120.00 per hour\$	96.00
Technicians/Administrative\$_	943.00
Subtotal, Monthly Meeting Preparation\$	6,855.50

TAC Preparation

Coordination with administrator regarding June TAC meeting; review/edit TAC meeting agenda; and gather information on street sweeping studies and prepare presentation for June TAC discussion.

Karen L. Chandler, Principal Engineer/Scientist 1.7 hours @ \$210.00 per hour	357.00
Stephanie Johnson, Consultant/Advisor 5.2 hours @ \$205.00 per hour	1,066.00
Greg Williams, Engineer/Scientist/Specialist III 0.5 hours @ \$170.00 per hour	\$ 85.00
Michael McKinney, Engineer/Scientist/Specialist III 3.6 hours @ \$160.00 per hour	576.00
Subtotal, TAC Preparation	2,084.00

Subtotal 1010—Technical Services	\$	17,839.50
1020—Development/Project Reviews BNSF Bridge Replacement (2022-27) Prepare project review memo for June Commission meeting, and communications	tions w	rith applicant.
James P. Herbert, Principal Engineer/Scientist 2.6 hours @ \$220.00 per hour	\$	572.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 5.4 hours @ \$120.00 per hour	\$	648.00
Lulu Fang, Engineer/Scientist/Specialist II 2.0 hours @ \$135.00 per hour	\$	<u> 270.00</u>
Subtotal, BNSF Bridge Replacement (2022-27)	\$	1,490.00
Wagner Spray Tech-Final Phase 3B (2024-06) Review revised grading, drainage, erosion control, and water quality plans; ar to city staff.	nd send	l approval letter
James P. Herbert, Principal Engineer/Scientist 2.8 hours @ \$220.00 per hour	\$	616.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 2.6 hours @ \$120.00 per hour	\$	312.0 <u>0</u>
Subtotal, Wagner Spray Tech-Final Phase 3B (2024-06)	\$	928.00
GV Golf Course ROW (2024-07) Review utility and erosion control plans; send preliminary comments to appliutility and erosion control plans.	cant; ar	nd review revised
James P. Herbert, Principal Engineer/Scientist 4.1 hours @ \$220.00 per hour	\$	902.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 2.8 hours @ \$120.00 per hour	\$	336.00
Subtotal, GV Golf Course ROW (2024-07)	\$	1,238.00
2024 Imprv School of Eng & Arts (2024-08) Review grading, drainage, and erosion control plans; and communications wi	th appl	icant.
James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$220.00 per hour	\$	220.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 4.3 hours @ \$120.00 per hour	\$	516.00
Technicians/Administrative	\$	105.00
Subtotal, 2024 Imprv School of Eng & Arts (2024-08)	\$	841.00
GV Zane Ave & Lindsay St. Improvements (2024-09) Review grading, drainage, and erosion control plans; and prepare project rev Commission meeting.	iew me	mo for June

James P. Herbert, Principal Engineer/Scientist 3.1 hours @ \$220.00 per hour\$	682.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II	
3.2 hours @ \$120.00 per hour\$	384.00
Technicians/Administrative\$_	52.50
Subtotal, GV Zane Ave & Lindsay St. Improvements (2024-09)\$	1,171.00
Subtotal, 1020—Development/Project Reviews\$	5,668.00

1030—Preliminary and Non-Fee Reviews

Preliminary Reviews

Communications and virtual meeting with Minneapolis staff and developer's consultant to discuss potential re-development at Fruen Mill; preliminary review of 5775 Wayzata Boulevard in St. Louis Park, determined project is outside the BCWMC watershed; coordination with Crystal staff regarding project at 34th and Douglas; and coordination with Golden Valley staff and internal staff regarding lift station along Sweeney Branch.

James P. Herbert, Principal Engineer/Scientist	
9.3 hours @ \$220.00 per hour\$	2,046.00
Jennifer Koehler, Engineer/Scientist/Specialist IV 0.5 hours @ \$185.00 per hour\$	92.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 1.1 hours @ \$120.00 per hour\$	132.00
Subtotal, Preliminary Reviews\$	2,270.50

Non-Fee Reviews

General Reviews

Review MDNR permit No. 2024-1323 for dewatering Fruen Mill basement; and coordination with Southwest Light Rail Transit (SWLRT) consultant and Minneapolis staff regarding SWLRT construction.

Southwest Light Kan Hansit (SWEKT) Consultant and Winneapons starr regarding SV	VLICE CONSCI
James P. Herbert, Principal Engineer/Scientist 7.0 hours @ \$220.00 per hour\$	1,540.00
Karen L. Chandler, Principal Engineer/Scientist 1.0 hours @ \$210.00 per hour\$	210.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 0.2 hours @ \$120.00 per hour\$	24.00
Subtotal, General Reviews\$	1,774.00
Subtotal, 1030—Preliminary and Non-Fee Reviews\$	4,044.50
1040—Commission and TAC Meetings Attend May 16 Commission meeting.	

3.4 hours @ \$210.00 per hour.....\$____\$

Subtotal, 1040—Commission and TAC Meetings.....\$

714.00

714.00

Karen L. Chandler, Principal Engineer/Scientist

1050—Surveys and Studies

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

1060—Water Quality/Monitoring

General Water Quality

Review MDNR fisheries management plan for Medicine Lake; attend meeting with administrator, and MDNR, Plymouth, and Three Rivers Park District staff to discuss MDNR fisheries management plan for Medicine Lake; review and share MDNR fisheries survey information with internal staff; internal communications regarding MCES Bassett Creek water quality trends; review MPCA's stressor ID report for Bassett Creek and Plymouth Creek.

Karen L. Chandler, Principal Engineer/Scientist 1.4 hours @ \$210.00 per hour\$	294.00
Meg Rattei, Engineer/Scientist/Specialist III 2.7 hours @ \$155.00 per hour\$_	418.50
Subtotal, General Water Quality\$	712.50
<u>Plymouth Creek Report</u> Prepare draft Plymouth Creek report.	
Meg Rattei, Engineer/Scientist/Specialist III 45.6 hours @ \$155.00 per hour\$	7,068.00
Technicians/Administrative\$_	52.50
Subtotal, Plymouth Creek Report\$	7,120.50
Sweeney Lk & Twin Lk 2023 Monitoring Reports Review, edit, and provide comments on draft Sweeney Lake and Twin Lake water quali	ty reports.
Karen L. Chandler, Principal Engineer/Scientist 3.4 hours @ \$210.00 per hour\$	714.00
Greg Wilson, Engineer/Scientist/Specialist IV 3.0 hours @ \$195.00 per hour\$	585.00
Meg Rattei, Engineer/Scientist/Specialist III 5.3 hours @ \$155.00 per hour\$	821.50
Technicians/Administrative\$_	406.00
Subtotal, Sweeney Lk & Twin Lk 2023 Monitoring Reports\$	2,526.50

North Branch Monitoring (Year 1)

Prepare and set equipment at monitoring station for storm event sampling; collect storm event samples on April 30 and May 22; deliver storm samples to MCES laboratory; clean sample bottles; download, review, and process continuous monitoring data, including storm event data; collect grab sample on May 30 and deliver to MCES laboratory; review rating curve and prepare for flow measurements; site visit to troubleshoot and fix cell modem connection issues and replace desiccant; expense charges include vehicle and mileage charges for sampling, sample delivery, and site visit and ice to cool samples.

Meg Rattei, Engineer/Scientist/Specialist III	
0.3 hours @ \$155.00 per hour\$	46.50

Chris Bonick, Engineer/Scientist/Specialist III 19.0 hours @ \$145.00 per hour\$	2,755.00
Madeline Hankard, Engineer/Scientist/Specialist I	
4.0 hours @ \$115.00 per hour\$	460.00
Technicians/Administrative\$	127.00
Expenses (vehicle/mileage/ice/meter)\$	384.41
Subtotal, North Branch Monitoring (Year 1)\$	3,772.91
Subtotal, 1060—Water Quality/Monitoring\$	14,132.41
1070—Water Quantity	
Measure and review lake elevations as part of the lake-gauging program.	
Technicians/Administrative\$	1,023.00
Expenses (vehicle/mileage)\$	239.50
Subtotal, Water Level Monitoring\$	1,262.50
Subtotal, 1070—Water Quantity\$	1,262.50
1080—Annual Flood Control Project Inspections Prepare reminders for cities regarding maintenance needs based on 2023 FCP inspections Gabrielle Campagnola, Engineer/Scientist/Specialist II	tions.
1.3 hours @ \$120.00 per hour\$	156.00
Josh Phillips, Engineer/Scientist/Specialist III 0.2 hours @ \$150.00 per hour\$	30.00
Subtotal, Annual Inspection\$	186.00
H&H Model Conversion & Updates: Grant Preparation Prepare and submit grant funding Notice of Interest to HSEM for XP-SWMM mod updates project.	el conversion and
Karen L. Chandler, Principal Engineer/Scientist 2.0 hours @ \$210.00 per hour\$	420.00
Stephanie Johnson, Consultant/Advisor 6.0 hours @ \$205.00 per hour\$	1,230.00
Jennifer Koehler, Engineer/Scientist/Specialist IV 1.0 hours @ \$185.00 per hour\$	185.00
Subtotal, H&H Model Conversion & Updates: Grant Preparation\$	1,835.00
Subtotal, 1080—Annual Flood Control Project Inspections\$	2,021.00
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

Communications with administrator and internal staff regarding EWM growth status in Sweeney Lake, EWM inspections, and estimated dates of EWM pre-treatment plant survey and herbicide treatment; prepare and send answers to administrator's questions regarding Sweeney Lake EWM plant survey and herbicide treatment; inspection of Sweeney Lake EWM on May 9; communications with ERS to schedule Sweeney Lake EWM pre-treatment plant survey for May 12; review May 12 plant survey results; design herbicide treatment plan and send treatment map to administrator, MDNR staff, Sweeney Lake Association, and PLM; communications regarding the May 15 herbicide treatment; respond to questions about potential for AIS treatment impacting carp survey; prepare and send answers to administrator's questions regarding the Sweeney Lake watershed ponds' plant surveys; communications with Golden Valley staff regarding permits required for plant surveys of Schaper Pond, Lilac Pond, Chicago Pond, Spring Pond, and Toledo/Angelo Pond; prepare applications and coordinate with Golden Valley staff on Right of Way Permits for Schaper Pond, Spring Pond, and Toledo/Angelo Pond; submit Right of Way permit applications to City of Golden Valley; expenses include \$150 permit fee for the Right of Way permits; prepare letter to MNDOT inquiring about temporary right of entry permits for Lilac Pond and Chicago Pond for plant surveys; communications, preparation, and submittal of a Miscellaneous Work Permit application to MNDOT for access to Lilac Pond and Chicago Pond; prepare letters and temporary right of entry permits for Toledo/Angelo Pond and Spring Pond; send letters and temporary right of entry permits to resident adjacent to Toledo/Angelo Pond and businesses adjacent to Spring Pond; prepare draft and final informational letter regarding plant surveys of Toledo/Angelo Pond, Chicago Pond, Lilac Pond, and Spring Pond; prepare subconsultant contract for Schaper Pond plant survey; subconsultant coordination; communications with administrator regarding notification of the City of Golden Valley regarding the Schaper Pond May 18 plant survey; coordinate with ERS regarding the May 18 Twin Lake plant survey; and review and share May 18 Twin Lake and Schaper Pond plant survey results with administrator.

Karen L. Chandler, Principal Engineer/Scientist 4.8 hours @ \$210.00 per hour\$	1,008.00
Greg Wilson, Engineer/Scientist/Specialist IV 1.0 hours @ \$195.00 per hour\$	195.00
Meg Rattei, Engineer/Scientist/Specialist III 28.6 hours @ \$155.00 per hour\$	4,433.00
Kevin Menken, Engineer/Scientist/Specialist II 1.5 hours @ \$140.00 per hour\$	210.00
Kelly Wild, Engineer/Scientist/Specialist II 1.6 hours @ \$130.00 per hour\$	208.00
Katie Kramarczuk, Engineer/Scientist/Specialist I 1.8 hours @ \$105.00 per hour\$	189.00

Technicians/Administrative\$	472.50	
Sub Consultants (ERS/City of Golden Valley)\$_	383.75	
Subtotal, 1130—APM/AIS\$	7,099.25	
SUBTOTAL, 1000—ENGINEERING & MONITORING\$	52,781.16	

2000—PLANNING

2010—Next Generation Plan Development

Prepare for, attend, and participate in the May 1, 2024 PSC meeting; meet internally to review and develop strategies to address climate resiliency with consideration for social vulnerability; meet with administrator to discuss climate resiliency and social vulnerability strategies; identify ADA compliance and accessibility considerations for potential Plan document formats; develop draft of strategies, policies, and actions document (tables) addressing the waterbody and watershed quality issues; communications with administrator regarding options to organize strategies, policies, and actions and revise draft tables; and review and provide edits and comments on the June 12, 2024 PSC meeting materials.

4040—Education & Public Outreach			
4000—OUTREACH & EDUCATION			
SUBTOTAL, 2000—PLANNING	.\$	9,762.00	
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	\$	9,762.00	
Greg Williams, Engineer/Scientist/Specialist III 22.4 hours @ \$170.00 per hour	\$	3,808.00	
Stephanie Johnson, Consultant/Advisor 6.2 hours @ \$205.00 per hour	\$	1,271.00	
Karen L. Chandler, Principal Engineer/Scientist 22.3 hours @ \$210.00 per hour	\$	4,683.00	

SPECIAL PROJECTS

Medicine Lake TMDL Status Assessment

Compile, review, and evaluate updated lake and sediment monitoring data for comparison with MCES TP/TSS trend analyses; review MDNR fisheries report; compile and review existing BMP information, mapping, and modeling, and utilize BMP updates from project partners; and prepare project update.

SUBTOTAL, 4000—OUTREACH & EDUCATION.....\$

0.00

Karen L. Chandler, Principal Engineer/Scientist	
0.3 hours @ \$210.00 per hour\$	63.00

Greg Wilson, Engineer/Scientist/Specialist IV 4.3 hours @ \$195.00 per hour	¢	838.50
Subtotal, Medicine Lake TMDL Status Assessment		901.50
SUBTOTAL, SPECIAL PROJECTS		901.50
	·····Ψ	301.30
CAPITAL IMPROVEMENT PROJECTS		
ryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5) [6] ite visit and photographs after reported 4.4 inches of rain over 24-hours oordination with contractor; project communications; and project manag		awings;
John Hanson, Principal Engineer/Scientist 0.2 hours @ \$205.00 per hour	\$	41.00
Stephanie Johnson, Consultant/Advisor 1.4 hours @ \$205.00 per hour	\$	287.00
Josh Phillips, Engineer/Scientist/Specialist III 0.5 hours @ \$150.00 per hour	\$	75.00
Jacob Daire, Engineer/Scientist/Specialist II 0.8 hours @ \$130.00 per hour	\$	104.00
ubtotal, Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-	-5) [6]\$	507.00
arkers Lake Chloride Reduction Project – Parkers Lake Chloride Managemer PL-7A)	·	
ssociated implications for work scope development; communications with a aff regarding Parkers Lake holistic chloride management planning work sco	dministrato	or and interna ordination wi
ssociated implications for work scope development; communications with a aff regarding Parkers Lake holistic chloride management planning work sco	dministrato pe and coor rsheds sum	or and internandination wi mer tour.
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Associated implications for work scope development; communications with a staff regarding Parkers Lake holistic chloride management planning work scopic partners; and presentation planning/preparation for Minnesota Water Gregory Wilson, Engineer/Scientist/Specialist IV 3.5 hours @ \$195.00 per hour	dministrato ope and coorsheds sum \$ ake \$) (CR-M) eement, into	or and internation with mer tour. 682.50 682.50 ernal

Plymouth Creek Restoration Feasibility Study (2025) (CR-P)

Coordination with administrator and Plymouth staff regarding review of draft feasibility study report and presentation; develop and update figures for draft report, presentation, and final report; update cost estimates for all restoration options; update feasibility report text and submit to administrator for May Commission meeting; update presentation and submit to administrator for presentation at May Commission meeting; attend/present at May Commission meeting; update and submit final report; prepare and send bi-weekly email updates to administrator and Plymouth staff; and internal communications.

Karen L. Chandler, Principal Engineer/Scientist 12.1 hours @ \$210.00 per hour\$	2,541.00
Jessica Olson, Engineer/Scientist/Specialist III 37.3 hours @ \$175.00 per hour\$	6,527.50
Kallie Doeden, Engineer/Scientist/Specialist II 0.5 hours @ \$145.00 per hour\$	67.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 17.1 hours @ \$120.00 per hour\$	2,052.00
Megan Niess, Engineer/Scientist/Specialist II 3.7 hours @ \$120.00 per hour\$	444.00
Allison Hawley, Engineer/Scientist/Specialist I 1.3 hours @ \$95.00 per hour\$	136.50
Technicians/Administrative\$_	892.50
Subtotal, Plymouth Creek Restoration Feasibility Study (2025) (CR-P) \$	12,661.00
SUBTOTAL CAPITAL IMPROVEMENT PROJECTS\$	14,222.50

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$17,839.50
1020	Development/Project Reviews	\$5,668.00
1030	Non-fee and Preliminary Reviews	\$4,044.50
1040	Commission and TAC Meetings	\$714.00
1050	Surveys and Studies	\$0.00
1060	Water Quality/Monitoring	\$14,132.41
1070	Water Quantity	\$1,262.50
1080	Flood Control Project	\$2,021.00
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	\$7,099.25
1000	SUBTOTAL ENGINEERING & MONITORING	\$52,781.16
2000	PLANNING	
2010	Next Generation Plan Development	\$9,762.00
2020	Next Generation Plan Development - Address Complex Issues	\$0.00
2000	SUBTOTAL PLANNING	\$9,762.00
4000	OUTREACH & EDUCATION	
4040	Education & Public Outreach	\$0.00
4010	Publications/Annual Report	\$0.00
4000	SUBTOTAL OUTREACH & EDUCATION	\$0.00
	SPECIAL PROJECTS [4]	\$901.50
	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$14,222.50
TOTAL PAYABL	E	\$77,667.16

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.