Ms. Catherine Cesnik Bassett Creek Watershed Management Commission PO Box 270825 Golden Valley, MN 55427 Page # 1 Invoice # 23270051-2024-5 Project # 23/27-0051 Client # 59 July 8, 2024

# Invoice of Account with BARR ENGINEERING COMPANY

For professional services during the period of June 1, 2024 through June 28, 2024

#### 1000—ENGINEERING & MONITORING

#### **1010—Technical Services**

Monthly Meeting Preparation

Coordination with administrator, Minneapolis staff and Minneapolis StarTribune reporter regarding tunnel article and review/send tunnel photos to reporter; internal discussion regarding potential use of RiverWare modeling for Bassett Creek; attend Haha Wakpadan joint MWMO/BCWMC event; communications with administrator, MPRB staff and internal staff regarding drainage issue at hole 9 at Theodore Wirth Park Golf Course, and prepare for and meet with administrator and MPRB staff regarding the drainage issues; communications with administrator, Golden Valley staff and internal staff regarding city's request for H&H modeling of back to back flood events and the scope and cost of an analysis; revise work scope (and equipment costs) for the first phase of work for the Crane Lake Chloride Reduction Demonstration Project Feasibility Study at Ridgedale Mall; communications with administrator regarding CCX story about flood mitigation efforts along Medicine Lake Road; and communications with administrator and Minneapolis staff regarding drainage concerns about Anwatin Pond, and prepare for and attend meeting with administrator and resident who lives on Anwatin Pond.

James P. Herbert, Principal Engineer/Scientist 12.1 hours @ \$220.00 per hour\$	2,662.00
Karen L. Chandler, Principal Engineer/Scientist 1.5 hours @ \$210.00 per hour\$	315.00
Stephanie Johnson, Consultant/Advisor 3.4 hours @ \$205.00 per hour\$	697.00
Jen Koehler, Engineer/Scientist/Specialist IV 1.0 hours @ \$185.00 per hour\$	185.00
Gregory Wilson, Engineer/Scientist/Specialist IV  3.8 hours @ \$195.00 per hour\$_	741.00
Subtotal, Technical Services\$	4,600.00

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

meeting packet for June Commission meeting; review/edit May meeting minutes; prepare for June Commission meeting, including review meeting packet, pre-meeting conference call with Vice Chair Welch and administrator, and prepare Engineer Communications regarding SWLRT construction update and status of BCWMC review/approvals; communications with administrator and internal staff regarding follow-up items from June Commission meeting and upcoming meeting agenda items; and prepare draft Sweeney/Twin Lake presentation for July Commission meeting.

James P. Herbert, Principal Engineer/Scientist 7.2 hours @ \$220.00 per hour\$	1,584.00
Karen L. Chandler, Principal Engineer/Scientist 13.2 hours @ \$210.00 per hour\$	2,772.00
Stephanie Johnson, Consultant/Advisor 5.2 hours @ \$205.00 per hour\$	1,006.00
Gregory Wilson, Engineer/Scientist/Specialist IV  0.3 hours @ \$195.00 per hour\$	58.50
Meg Rattei, Engineer/Scientist/Specialist III  2.0 hours @ \$155.00 per hour\$	310.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II  2.0 hours @ \$120.00 per hour\$	240.00
Technicians/Administrative\$	575.00
Subtotal, Monthly Meeting Preparation\$	6,605.50

# **TAC Preparation**

Prepare presentations and discussion items for June TAC meeting on street sweeping prioritization and social vulnerability index data sets for planning; internal communications on follow-up items from June TAC meeting; coordinate with staff from City of St. Louis Park to share street sweeping presentation following TAC meeting.

Subtotal 1010—Technical Services\$	13,403.00
Subtotal, TAC Preparation\$	2,197.50
Michael McKinney, Engineer/Scientist/Specialist III  1.1 hours @ \$160.00 per hour\$_	176.00
Stephanie Johnson, Consultant/Advisor 7.3 hours @ \$205.00 per hour\$	1,496.50
Karen L. Chandler, Principal Engineer/Scientist 2.5 hours @ \$210.00 per hour\$	525.00

## 1020—Development/Project Reviews

BNSF Bridge Replacement (2022-27)

Prepare project review memo for June Commission meeting; communications with applicant; and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist	
1.3 hours @ \$220.00 per hour\$	286.00

Karen L. Chandler, Principal Engineer/Scientist 1.1 hours @ \$210.00 per hour	\$	231.00
Stephanie Johnson, Consultant/Advisor 1.6 hours @ \$205.00 per hour	\$	328.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II  2.2 hours @ \$120.00 per hour	\$	264.00
Subtotal, BNSF Bridge Replacement (2022-27)	.\$	1,109.00
<u>Ply Blvd Rehab Project (2024-03)</u> Review revised grading, drainage, and erosion control plans, and communication consultant.	n with	city's
James P. Herbert, Principal Engineer/Scientist  2.3 hours @ \$220.00 per hour	\$	506.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II  3.5 hours @ \$120.00 per hour	\$	420.00
Subtotal, Ply Blvd Rehab Project (2024-03)	.\$	926.00
GV Golf Course ROW (2024-07) Review revised utility and erosion control plans; communications with applicant; letter to city staff.	and s	send approval
James P. Herbert, Principal Engineer/Scientist 1.5 hours @ \$220.00 per hour	\$	330.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II  0.5 hours @ \$120.00 per hour	\$	60.00
Subtotal, GV Golf Course ROW (2024-07)	.\$	390.00
2024 Imprv School of Eng & Arts (2024-08) Review grading, drainage, and erosion control plans, and send approval letter to	city s	staff.
James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$220.00 per hour	\$	220.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II  1.3 hours @ \$120.00 per hour	\$	<u> 156.00</u>
Subtotal, 2024 Imprv School of Eng & Arts (2024-08)	.\$	376.00
GV Zane Ave & Lindsay St. Improvements (2024-09) Review grading, drainage, and erosion control plans; prepare project review mer Commission meeting; and send approval letter to city staff.	no fo	r June
James P. Herbert, Principal Engineer/Scientist 1.3 hours @ \$220.00 per hour	\$	286.00
Karen L. Chandler, Principal Engineer/Scientist  0.4 hours @ \$210.00 per hour	\$	84.00
Stephanie Johnson, Consultant/Advisor 0.7 hours @ \$205.00 per hour	\$	143.50

Edward Anderson, Engineer/Scientist/Specialist II  0.7 hours @ \$120.00 per hour\$	84.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 3.2 hours @ \$120.00 per hour\$_	384.00
Subtotal, GV Zane Ave & Lindsay St. Improvements (2024-09)\$	981.50
Subtotal, 1020—Development/Project Reviews\$	3,782.50

## 1030—Preliminary and Non-Fee Reviews

## **Preliminary Reviews**

Preliminary review and comments for floodplain exhibit for potential re-development at Fruen Mill and external and internal communications regarding project follow-up, including consultant's model request; Plymouth regional stormwater treatment: gather 2023 information, communications with administrator, city staff, city's consultant and internal staff regarding regional treatment review and set up meeting, prepare for and attend virtual meeting with city staff, city's consultant and administrator regarding regional stormwater treatment next steps and follow-up communications with administrator, city staff, city's consultant, and internal staff regarding review of water quality treatment; communications and virtual meeting with Plymouth staff and administrator to discuss submittal process for a two phase project at Fernbrook Lane North and Harbor Lane North in Plymouth; and communications with Golden Valley staff regarding BCWMC requirements for potential project at 1326 Spring Valley Road.

James P. Herbert, Principal Engineer/Scientist 15.2 hours @ \$220.00 per hour\$	3,344.00
Karen L. Chandler, Principal Engineer/Scientist 5.6 hours @ \$210.00 per hour\$	1,176.00
Jennifer Koehler, Engineer/Scientist/Specialist IV  1.8 hours @ \$185.00 per hour\$	333.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 5.6 hours @ \$120.00 per hour\$	672.00
Subtotal, Preliminary Reviews\$	5,525.00

#### Non-Fee Reviews

General Reviews

Review MDNR permit No. No. 2024-1868 for dewatering during Plymouth Boulevard construction; and coordination with Southwest Light Rail Transit (SWLRT) consultant.

James P. Herbert, Principal Engineer/Scientist		
1.7 hours @ \$220.00 per hour\$	,	<u>374.00</u>
Subtotal, General Reviews\$		374.00

#### Blue Line LRT

Review preliminary 30% drawings, review Supplemental Draft EIS for portion of Blue Line LRT in BCWMC; and communications with administrator, Metro Transit, and Metro Transit's consultant.

James P. Herbert, Principal Engineer/Scientist	
6.3 hours @ \$220.00 per hour\$	1,386.00

Karen L. Chandler, Principal Engineer/Scientist	402.00
2.3 hours @ \$210.00 per hour\$_	483.00
Subtotal, Blue Line LRT\$	1,869.00
Subtotal, 1030—Preliminary and Non-Fee Reviews\$	7,768.00
1040—Commission and TAC Meetings Attend June 12 TAC meeting; and attend June 20 Commission meeting.	
Karen L. Chandler, Principal Engineer/Scientist 5.3 hours @ \$210.00 per hour\$	1,113.00
Stephanie Johnson, Consultant/Advisor 2.3 hours @ \$205.00 per hour\$	471.50
Subtotal, 1040—Commission and TAC Meetings\$	1,584.50
1050—Surveys and Studies	
Subtotal, 1050—Surveys and Studies\$	0.00

# 1060—Water Quality/Monitoring

## **General Water Quality**

Communications with administrator and internal staff regarding potential meeting with MCES staff and other agency staff regarding WOMP station monitoring trend results; internal communications regarding MPCA stressor ID; and evaluate Bassett Creek MCES WOMP TP trends and historic Medicine Lake TP monitoring data to explain recent increasing TP trend and internal communications regarding evaluation.

Karen L. Chandler, Principal Engineer/Scientist	
3.1 hours @ \$210.00 per hour	\$ 651.00
Greg Wilson, Engineer/Scientist/Specialist IV	
5.0 hours @ \$195.00 per hour	\$ 975.00
Subtotal, General Water Quality	\$ 1,626.00

## Plymouth Creek Report

Communications with internal and TRPD staff regarding pH data and photos from 2022-2023 monitoring; review and summarize TRPD pH data and include data in Plymouth Creek report; obtain and organize photos from TRPD and monitoring for Plymouth Creek report; communications with MPCA staff regarding Plymouth Creek stressor ID; prepared draft and final Plymouth Creek monitoring report.

Karen L. Chandler, Principal Engineer/Scientist 1.8 hours @ \$210.00 per hour\$	378.00
Chris Bonick, Engineer/Scientist/Specialist III  2.5 hours @ \$145.00 per hour\$	362.50
Meg Rattei, Engineer/Scientist/Specialist III  13.5 hours @ \$155.00 per hour\$	2,092.50

Technicians/Administrative\$	2,508.50
Subtotal, Plymouth Creek Report\$	5,341.50

## Sweeney Lk & Twin Lk 2023 Monitoring Reports

Prepare draft Sweeney Lake and Twin Lake monitoring reports; send draft reports to administrator for review; incorporate comments; and respond to administrator's questions on impacts of Sweeney Lake chloride concentrations on biota.

Karen L. Chandler, Principal Engineer/Scientist 2.0 hours @ \$210.00 per hour\$	420.00
Meg Rattei, Engineer/Scientist/Specialist III  19.7 hours @ \$155.00 per hour	3,053.50
Kelly Wild, Engineer/Scientist/Specialist II	224.00
1.8 hours @ \$130.00 per hour\$	3 234.00
Technicians/Administrative	870.00
Subtotal, Sweeney Lk & Twin Lk 2023 Monitoring Reports	4,577.50

## North Branch Monitoring (Year 1)

Set station for storm event sampling and sample storm events on June 4, June 18, and June 22; site visit on June 12 to dump errant samples and perform site maintenance; download and review data from storm events; train new staff on sampling procedures; coordinate grab sampling; wash bottles used to collect storm samples; expenses include vehicle use and mileage costs for site visits for collection of storm samples, dumping errant samples, and performing site maintenance.

Meg Rattei, Engineer/Scientist/Specialist III  0.5 hours @ \$155.00 per hour	\$	77.50
Chris Bonick, Engineer/Scientist/Specialist III 9.5 hours @ \$145.00 per hour	\$	1,377.50
Madeline Hankard, Engineer/Scientist/Specialist I  2.6 hours @ \$115.00 per hour	\$	299.00
Katie Kramarczuk, Engineer/Scientist/Specialist I  2.4 hours @ \$105.00 per hour	\$	252.00
Technicians/Administrative	\$	88.00
Expenses (vehicle/mileage)	\$	222.08
Subtotal, North Branch Monitoring (Year 1)	. \$	2,316.08
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#### Parkers Lake Monitoring

Expenses are lab charges for analyzing Parkers Lake water quality samples collected by TRPD staff.

Subconsultant (RMB Enviro Lab)	\$ 72.60
Subtotal, Parkers Lake Monitoring	\$ 72.60

## Westwood Lake Monitoring

Prepare for and monitor Westwood Lake on June 11; file Chain of Custody and field data from June 11 monitoring; expenses include lab charges for analyzing Westwood Lake water quality samples, and disposable filtration units used to collect June 11 samples.

Terri Olson, Engineer/Scientist/Specialist III  0.1 hours @ \$165.00 per hour\$	16.50
Katie Kramarczuk, Engineer/Scientist/Specialist I	
2.2 hours @ \$105.00 per hour\$	231.00
Technicians/Administrative\$	314.00
Expenses (filtration apparatus)\$	38.60
Subconsultant (RMB Enviro Lab)\$_	180.84
Subtotal, Westwood Lake Monitoring\$	780.94

# Cavanaugh Lake Monitoring

Prepare for and monitor Cavanaugh Lake on June 11; file Chain of Custody and field data from June 11 monitoring; expenses include lab charges for analyzing Cavanaugh Lake water quality samples, vehicle use, mileage, canoe use, equipment use (peristaltic pump, water quality meter, turbidimeter, zooplankton net), and disposable filtration units and ice used for collection of June 11 samples.

Terri Olson, Engineer/Scientist/Specialist III  0.1 hours @ \$165.00 per hour\$	16.50
Katie Kramarczuk, Engineer/Scientist/Specialist I  2.2 hours @ \$105.00 per hour\$	231.00
Technicians/Administrative\$	268.50
Expenses (filtration apparatus/vehicle/canoe/pump/ice/meters/net)\$	220.54
Subconsultant (RMB Enviro Lab)\$	209.88
Subtotal, Cavanaugh Lake Monitoring\$	946.42
Medicine Lake Monitoring  Expenses are lab charges for analyzing Medicine Lake water quality samples collections.	cted by TRPD staff.
Subconsultant (RMB Enviro Lab)\$	145.20
Subtotal, Medicine Lake Monitoring\$	145.20
Subtotal, 1060—Water Quality/Monitoring\$	15,806.24
1070—Water Quantity Measure and review lake elevations as part of the lake-gauging program.	
Technicians/Administrative\$	495.00
Expenses (vehicle/mileage)\$	148.50
Subtotal, Water Level Monitoring\$	643.50

## **1080—Annual Flood Control Project Inspections**

Review Commission attorney's revisions to Bassett Creek Tunnel cooperative agreement with City of Minneapolis, and communications with Commission attorney regarding the revisions.

Subtotal, 1070—Water Quantity .....\$

643.50

James P. Herbert, Principal Engineer/Scientist 1.3 hours @ \$220.00 per hour	. \$	<u> 286.00</u>
Subtotal, Annual Inspection	.\$	286.00
H&H Model Conversion & Updates: Grant Preparation Communications with HSEM staff regarding grant Notice of Interest.		
Stephanie Johnson, Consultant/Advisor  0.4 hours @ \$205.00 per hour	. \$	82.00
Subtotal, H&H Model Conversion & Updates: Grant Preparation	. \$	82.00
Subtotal, 1080—Annual Flood Control Project Inspections	.\$	368.00
1090—Municipal Plan Review		
Subtotal, 1090— Municipal Plan Review		
Subtotal, 1030— Mullicipal Plan Review	.\$	0.00
1100—Watershed Outlet Monitoring Program	.\$	0.00
·		0.00
1100—Watershed Outlet Monitoring Program		

#### 1120—APM/AIS

Communications with ERS, internal staff, and administrator regarding permits for plant surveys of Lilac Pond, Chicago Pond, Spring Pond, and Toledo/Angelo Pond; communications with ERS, internal staff, administrator, and the City of Golden Valley regarding the plant survey results in Lilac Pond, Chicago Pond, Spring Pond, and Toledo/Angelo Pond; and communications with ERS, administrator, and Sweeney Lake Association regarding the Sweeney Lake post-treatment survey.

SUBTOTAL, 1000—ENGINEERING & MONITORING\$	43,712.24
Subtotal, 1130—APM/AIS\$	356.50
2.3 hours @ \$155.00 per hour\$	356.50
Meg Rattei, Engineer/Scientist/Specialist III	

## 2000—PLANNING

## **2010—Next Generation Plan Development**

Review materials for June 12 PSC meeting; prepare for, attend, and participate in the June 12 PSC meeting; share notes from the June 12 meeting with the administrator; meet with administrator to discuss format for document presenting draft Plan actions and to develop draft goals to address organizational effectiveness; and revise the document presenting draft Plan actions to reflect administrator comments.

Karen L. Chandler, Principal Engineer/Scientist 10.4 hours @ \$210.00 per hour\$	2,184.00
Greg Williams, Engineer/Scientist/Specialist III	
11.5 hours @ \$170.00 per hour\$	1,955.00

Subtotal, 2010—Next Generation Plan Development\$	4,139.00
2020—Next Generation Plan Development – Address Complex Issues	
Subtotal, 2010—Next Generation Plan Development- Address	
Complex Issues \$	0.00
SUBTOTAL, 2000—PLANNING\$	4,139.00
4000—OUTREACH & EDUCATION	
4040—Education & Public Outreach	
SUBTOTAL, 4000—OUTREACH & EDUCATION\$	0.00

#### **SPECIAL PROJECTS**

#### Medicine Lake TMDL Status Assessment

Compile, review, and update existing BMP information, mapping, and modeling; utilize BMP updates from project partners; and prepare project update.

SUBTOTAL, SPECIAL PROJECTS\$	3,032.50
Subtotal, Medicine Lake TMDL Status Assessment\$	3,032.50
Joshua Vosejpka, Engineer/Scientist/Specialist I 14.5 hours @ \$115.00 per hour\$_	1,667.50
7.0 hours @ \$195.00 per hour\$	1,365.00
Greg Wilson, Engineer/Scientist/Specialist IV	

#### **CAPITAL IMPROVEMENT PROJECTS**

## Schaper Pond and Sweeney Lake Carp Management

Communications with Golden Valley staff regarding potential timing and impact of the city's lift station construction on Carp Solutions' carp population survey of Schaper Pond; coordinate and schedule initial 2024 carp population surveys for Schaper Pond and Sweeney Lake, including communications with Carp Solutions, Sweeney Lake homeowners, Golden Valley staff, administrator and internal staff; communications with Carp Solutions and administrator to ensure proper AIS control methods are followed during the carp surveys; review preliminary survey results and communications with Carp Solutions regarding preliminary results of carp biomass estimates for Sweeney Lake and Schaper Pond and recommendations for responding to elevated biomass estimate in Sweeney Lake and implications for Schaper Pond effectiveness monitoring; and follow-up communication regarding schedule for second survey of Sweeney Lake.

Karen L. Chandler, Principal Engineer/Scientist 0.4 hours @ \$210.00 per hour\$	84.00
Greg Wilson, Engineer/Scientist/Specialist IV 12.2 hours @ \$195.00 per hour\$	2,379.00
Subtotal, Schaper Pond and Sweeney Lake Carp Management\$	2,463.00

#### Ponderosa Woods Stream Restoration (2024 ML-22)

Communications with Plymouth staff, Plymouth consultant, administrator and internal staff

regarding upcoming design review, information and model needs, and site visit; respond to poll
for regulatory meeting; and internal communications regarding review process and schedule.

for regulatory meeting; and internal communications regarding review process and schedule.			
Karen L. Chandler, Principal Engineer/Scientist  2.2 hours @ \$210.00 per hour\$	462.00		
Kallie Doeden, Engineer/Scientist/Specialist II 1.2 hours @ \$135.00 per hour\$	<u> 162.00</u>		
Subtotal, Ponderosa Woods Stream Restoration (2024 ML-22)\$	624.00		
Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5) [6] Prepare for and participate in June 10 <sup>th</sup> MPRB/City/BCWMC/Shingle Creek WMC project tour; prepare record drawings; project communications; and project management.			
Stephanie Johnson, Consultant/Advisor 6.4 hours @ \$205.00 per hour\$	1,312.00		
Michelle Kimble, Engineer/Scientist/Specialist IV 0.7 hours @ \$185.00 per hour\$	129.50		
Greg Fransen, Engineer/Scientist/Specialist III  1.1 hours @ \$170.00 per hour\$	187.00		
Josh Phillips, Engineer/Scientist/Specialist III 1.0 hours @ \$150.00 per hour\$	150.00		
Jacob Daire, Engineer/Scientist/Specialist II  0.8 hours @ \$130.00 per hour\$	<u> 104.00</u>		
Subtotal, Bryn Mawr Meadows Water Quality Improvement Project (2020) (BC-5) [6]\$	1,882.50		
Plymouth Creek Restoration Feasibility Study (2025) (CR-P) Prepare and send final bi-weekly email update to administrator and Plymouth staff; internal communications; and project management.			
Jessica Olson, Engineer/Scientist/Specialist III 2.0 hours @ \$175.00 per hour\$	350.00		
Subtotal, Plymouth Creek Restoration Feasibility Study (2025) (CR-P) \$	350.00		
SUBTOTAL CAPITAL IMPROVEMENT PROJECTS\$	5,319.50		

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$13,403.00
1020	Development/Project Reviews	\$3,782.50
1030	Non-fee and Preliminary Reviews	\$7,768.00
1040	Commission and TAC Meetings	\$1,584.50
1050	Surveys and Studies	\$0.00
1060	Water Quality/Monitoring	\$15,806.24
1070	Water Quantity	\$643.50
1080	Flood Control Project	\$368.00
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	\$356.50
1000	SUBTOTAL ENGINEERING & MONITORING	\$43,712.24
2000	PLANNING	
2010	Next Generation Plan Development	\$4,139.00
2020	Next Generation Plan Development - Address Complex Issues	\$0.00
2000	SUBTOTAL PLANNING	\$4,139.00
4000	OUTREACH & EDUCATION	
4040	Education & Public Outreach	\$0.00
4010	Publications/Annual Report	\$0.00
4000	SUBTOTAL OUTREACH & EDUCATION	\$0.00
	SPECIAL PROJECTS [4]	\$3,032.50
	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$5,319.50
TOTAL PAYABL	E	\$56,203.24

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.