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

Page # 1
Invoice # 23270051-2021-08
Project # 23/27-0051
Client # 59
October 8, 2021

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
August 28, 2021 through October 1, 2021

1000—ENGINEERING & MONITORING

1010—Technical Services

Technical Services

Communications with administrator and internal staff regarding Bassett Creek Valley resident's question about flooding after intense rainfall events; review/edit administrator's draft CIP Fact Sheet; attend MPCA's MTD virtual workshop to review and discuss the draft MTD credit page as part of the MN Stormwater Manual; project management; and miscellaneous communications with administrator and internal staff.

James P. Herbert, Principal Engineer/Scientist 1.7 hours @ \$200.00 per hour	\$	340.00
Karen L. Chandler, Principal Engineer/Scientist 2.9 hours @ \$185.00 per hour	\$	536.50
Technicians/Administrative.....	\$	<u>20.00</u>
<i>Subtotal, Technical Services</i>	\$	896.50

Monthly Meeting Preparation

Communications/coordination with administrator and internal staff regarding draft/final agenda and meeting packet for September meeting; review/edit draft August meeting minutes; prepare for September Commission meeting, including review meeting packet, pre-meeting conference call with Chair Cesnik and administrator, and internal communications regarding meeting attendance and presentations; and communications with administrator and internal staff regarding follow-up items from August and September Commission meetings and upcoming meeting agenda items.

James P. Herbert, Principal Engineer/Scientist 1.6 hours @ \$200.00 per hour	\$	320.00
Karen L. Chandler, Principal Engineer/Scientist 17.6 hours @ \$185.00 per hour	\$	3,256.00

Technicians/Administrative.....	\$	<u>810.00</u>
<i>Subtotal, Monthly Meeting Preparation.....</i>	\$	<i>4,386.00</i>
Subtotal 1010—Technical Services.....	\$	<u>5,282.50</u>

1020—Development/Project Reviews

Ridgedale Area Park Improvements (2021-18)

Review resubmittal; and prepare and send approval letter to city staff.

Josh P. Phillips, Engineer/Scientist/Specialist II 0.5 hours @ \$115.00 per hour.....	\$	57.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 1.1 hours @ \$95.00 per hour.....	\$	<u>104.50</u>
<i>Subtotal, Ridgedale Area Park Improvements (2021-18).....</i>	\$	<i>162.00</i>

Parkers Lake Commerce Center (2021-19)

Prepare and send comment letter to city staff; review resubmittal; communications with applicant regarding remaining comments; review resubmittal; prepare and send approval letter to city staff; and communications with city staff.

James P. Herbert, Principal Engineer/Scientist 2.0 hours @ \$200.00 per hour.....	\$	400.00
Josh P. Phillips, Engineer/Scientist/Specialist II 5.6 hours @ \$115.00 per hour.....	\$	644.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 4.7 hours @ \$95.00 per hour.....	\$	<u>446.50</u>
<i>Subtotal, Parkers Lake Commerce Center (2021-19).....</i>	\$	<i>1,490.50</i>

L&W Supply Co. Parking Lot (2021-20)

Follow-up communications with applicant's consultant regarding project; and resend approval letter to applicant.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$200.00 per hour.....	\$	<u>100.00</u>
<i>Subtotal, L&W Supply Co. Parking Lot (2021-20).....</i>	\$	<i>100.00</i>

170 Maryland GV Proposed Deck (2021-21)

Prepare review memo for September Commission meeting for floodplain requirements; internal communications regarding commissioner question; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 2.7 hours @ \$200.00 per hour.....	\$	540.00
Karen L. Chandler, Principal Engineer/Scientist 0.7 hours @ \$185.00 per hour.....	\$	129.50
Josh P. Phillips, Engineer/Scientist/Specialist II 1.5 hours @ \$115.00 per hour.....	\$	172.50

Gabrielle Campagnola, Engineer/Scientist/Specialist II	
1.4 hours @ \$95.00 per hour	\$ 133.00
Edward Anderson, Engineer/Scientist/Specialist II	
0.6 hours @ \$95.00 per hour	\$ 57.00
<i>Subtotal, 170 Maryland GV Proposed Deck (2021-21).....</i>	<i>\$ 1,032.00</i>

MN Rubber & Plastics Bldg Add (2021-22)

Review grading, drainage, and erosion control plans; prepare and send approval letter to city staff; review resubmittal; communications with applicant regarding remaining comments; review resubmittal; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist	
1.9 hours @ \$200.00 per hour	\$ 380.00
Josh P. Phillips, Engineer/Scientist/Specialist II	
5.0 hours @ \$115.00 per hour	\$ 575.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II	
7.0 hours @ \$95.00 per hour	\$ 665.00
Technicians/Administrative.....	\$ 100.00
Expenses (postage)	\$ 2.72
<i>Subtotal, MN Rubber & Plastics Bldg Add (2021-22)</i>	<i>\$ 1,722.72</i>

Wagner Spraytech Phase 3B (2021-23)

Review grading, drainage, and erosion control plans for water quality, rate control, and erosion and sediment control; and prepare draft comment letter to city staff.

James P. Herbert, Principal Engineer/Scientist	
1.7 hours @ \$200.00 per hour	\$ 340.00
Josh P. Phillips, Engineer/Scientist/Specialist II	
1.6 hours @ \$115.00 per hour	\$ 184.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II	
6.6 hours @ \$95.00 per hour	\$ 627.00
Technicians/Administrative.....	\$ 50.00
<i>Subtotal, Wagner Spraytech Phase 3B (2021-23)</i>	<i>\$ 1,201.00</i>

Academy of Whole Learning (2021-24)

Review grading, drainage, and erosion control plans; prepare draft comment letter; and communications with applicant.

James P. Herbert, Principal Engineer/Scientist	
0.3 hours @ \$200.00 per hour	\$ 60.00
Josh P. Phillips, Engineer/Scientist/Specialist II	
2.3 hours @ \$115.00 per hour	\$ 264.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II	
2.3 hours @ \$95.00 per hour	\$ 218.50

Kyle Weissahn, Engineer/Scientist/Specialist II 0.2 hours @ \$95.00 per hour	\$ 19.00
Technicians/Administrative.....	\$ <u>50.00</u>
<i>Subtotal, Academy of Whole Learning (2021-24)</i>	<i>\$ 612.00</i>

Golden Valley Apartments (2021-25)

Review grading, drainage, and erosion control plans for water quality, rate control, and erosion and sediment control;

Josh P. Phillips, Engineer/Scientist/Specialist II 0.7 hours @ \$115.00 per hour	\$ 80.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 2.8 hours @ \$95.00 per hour	\$ 266.00
Technicians/Administrative.....	\$ <u>50.00</u>
<i>Subtotal, Golden Valley Apartments (2021-25).....</i>	<i>\$ 396.50</i>
Subtotal, 1020—Development/Project Reviews	\$ 6,716.72

1030—Non-Fee and Preliminary Reviews

Preliminary Reviews

Communications with Golden Valley staff regarding MDNR permit application for proposed stream restoration project in Golden Valley; communications with consultant regarding development in Golden Valley; communications with Golden Valley staff regarding proposed; and communications with future applicant about timeline for submittals for BCWMC meetings.

James P. Herbert, Principal Engineer/Scientist 1.5 hours @ \$200.00 per hour	\$ 300.00
Karen L. Chandler, Principal Engineer/Scientist 0.3 hours @ \$185.00 per hour	\$ 55.50
Josh P. Phillips, Engineer/Scientist/Specialist II 0.2 hours @ \$115.00 per hour	\$ <u>23.00</u>
<i>Subtotal, Preliminary Reviews</i>	<i>\$ 378.50</i>

Non-Fee Reviews

North Loop Green Phase III Development (over tunnel drop structure)

Numerous communications and virtual meetings with Minneapolis staff, developer, developer's consultants, administrator, Commission attorney, and internal staff regarding proposed building on top of access to drop shaft in the Bassett Creek tunnel; review proposed building plans, existing tunnel plans, and methods to provide future construction and emergency access; review and provide applicable Flood Control Project agreements to Minneapolis staff; and prepare and send comment letter to Minneapolis staff regarding BCWMC concerns about the project.

James P. Herbert, Principal Engineer/Scientist 20.8 hours @ \$200.00 per hour	\$ 4,160.00
Karen L. Chandler, Principal Engineer/Scientist 7.3 hours @ \$185.00 per hour	\$ <u>1,350.50</u>

<i>Subtotal, North Loop Green Phase III Development (over drop structure)</i>	\$	5,510.50
<i>Subtotal Non-Fee Reviews</i>	\$	5,510.50
Subtotal, 1030— Non-Fee and Preliminary Reviews	\$	5,889.00

1040—Commission and TAC Meetings

Attend September 16 Commission meeting (virtual).

Karen L. Chandler, Principal Engineer/Scientist 2.1 hours @ \$185.00 per hour	\$	388.50
Gregory Wilson, Principal Engineer/Scientist 2.1 hours @ \$175.00 per hour	\$	367.50
Subtotal, 1040—Commission and TAC Meetings	\$	756.00

1060—Water Quality/Monitoring

General Water Quality

Communications with administrator and MCES regarding adding chlorides to CAMP monitoring and evaluation of chloride data from Sweeney Lake and the Sweeney Lake Branch of Bassett Creek; communications with administrator regarding dissolved oxygen meter for Lost Lake; communications with administrator regarding location of yellow iris on Sweeney Lake; and working on 2015-2020 BCWMC water quality data submittal to MPCA.

Karen L. Chandler, Principal Engineer/Scientist 0.9 hours @ \$185.00 per hour	\$	166.50
Gregory Wilson, Principal Engineer/Scientist 2.0 hours @ \$175.00 per hour	\$	350.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 3.6 hours @ \$145.00 per hour	\$	522.00
Technicians/Administrative.....	\$	376.00
<i>Subtotal, General Water Quality</i>	\$	1,414.50

Sweeney Branch Monitoring Year 2

Perform monitoring station maintenance, including replacing battery and resetting/reconnecting the modem; set up station for storm sampling; prepare for and collect August 27 storm sample and September 29 grab sample; expenses include Verizon Wireless charges for monitoring station and mileage charges.

Gregory Wilson, Principal Engineer/Scientist 1.0 hours @ \$175.00 per hour	\$	175.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 0.5 hours @ \$145.00 per hour	\$	72.50
Chris Bonick, Engineer/Scientist/Specialist III 0.5 hours @ \$135.00 per hour	\$	67.50
Kallie Doeden, Engineer/Scientist/Specialist II 6.8 hours @ \$110.00 per hour	\$	748.00

Technicians/Administrative	\$	754.50
Expenses (Verizon/Mileage/ice/Turbidimeter/Conductivity Meter).....	\$	<u>151.51</u>
<i>Subtotal, Sweeney Branch Monitoring Year 2</i>	<i>\$</i>	<i>1,969.01</i>

Parkers Lake 2021 Monitoring

Place lab acknowledgement, field reports, and data emails from August monitoring in project folders and load lab and field data in EQUIS; expenses include charges from August monitoring for courier service to deliver samples to Pace Laboratory and for lab analyses.

Terri Olson, Engineer/Scientist/Specialist III 0.1 hours @ \$150.00 per hour	\$	15.00
Technicians/Administrative	\$	173.50
Expenses (Pace/Courier)	\$	<u>121.33</u>
<i>Subtotal, Parkers Lake 2021 Monitoring</i>	<i>\$</i>	<i>309.83</i>

Westwood Lake 2021 Monitoring

Prepare for and perform September 7 monitoring; complete analysis of September 7 zooplankton sample; communications with Pace lab regarding lab reports; placing lab acknowledgement, field reports and data emails in project folders; review plant survey data and communications with Endangered Resource Services, LLC regarding plant survey data; communications with administrator, MDNR, and the NY Botanical Garden regarding sharing 2021 BCWMC plant survey data with MDNR and NY Botanical Garden; and prepare historical phytoplankton and zooplankton data summaries; expenses include Pace lab charges for August and September monitoring and equipment charges for September monitoring.

Terri Olson, Engineer/Scientist/Specialist III 0.4 hours @ \$150.00 per hour	\$	60.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 13.1 hours @ \$145.00 per hour	\$	1,899.50
Technicians/Administrative	\$	675.50
Expenses (Pace Analytical/Filtration)	\$	<u>336.60</u>
<i>Subtotal, Westwood Lake 2021 Monitoring</i>	<i>\$</i>	<i>2,971.60</i>

Crane Lake 2021 Monitoring

Prepare for and perform September 7 monitoring; complete analyses of August 17 and September 7 zooplankton samples and September 7 phytoplankton sample; communications with Pace lab regarding lab reports; place lab acknowledgement, field reports and data emails in project folders; review plant survey data and communications with Endangered Resource Services, LLC regarding plant survey data; communications with administrator, MDNR, and the NY Botanical Garden regarding sharing 2021 BCWMC plant survey data with MDNR and NY Botanical Garden; and prepare historical phytoplankton and zooplankton data summaries; expenses include Pace lab charges for August and September monitoring, and charges for vehicle, equipment, mileage, and ice (for sample cooling) for September monitoring.

Terri Olson, Engineer/Scientist/Specialist III 0.8 hours @ \$150.00 per hour	\$	120.00
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Margaret R. Rattei, Engineer/Scientist/Specialist III	
15.2 hours @ \$145.00 per hour	\$ 2,204.00
Technicians/Administrative	\$ 721.50
Expenses (Pace Analytical/Filtration Apparatus/Ice/Vehicle/WQ Meter)	\$ <u>330.49</u>
<i>Subtotal, Crane Lake 2021 Monitoring</i>	<i>\$ 3,530.15</i>
Subtotal, 1060—Water Quality/Monitoring.....	\$ 10,195.09

1070—Water Quantity

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

Technicians/Administrative.....	\$ 840.00
Expenses (mileage/vehicle/Survey Set).....	\$ <u>146.00</u>
Subtotal, 1070—Water Quantity	\$ 986.00

1080—Annual Flood Control Project Inspections

Prepare annual flood control project inspection report, including internal review and revision.

Jennifer Brekken, Engineer/Scientist/Specialist IV	
0.2 hours @ \$165.00 per hour	\$ 33.00
Josh P. Phillips, Engineer/Scientist/Specialist II	
3.5 hours @ \$115.00 per hour	\$ 402.50
Aaron Brown, Engineer/Scientist/Specialist II	
6.0 hours @ \$95.00 per hour	\$ <u>570.00</u>
Subtotal, Annual Flood Control Project Inspections	\$ 1,005.50

1100—Watershed Outlet Monitoring Program

WOMP Rating Curve

Perform Bassett Creek flow measurement; download file of flow results; and send flow results file and Survey 1-2-3 form to MCES.

Chris Bonick, Engineer/Scientist/Specialist III	
4.0 hours @ \$135.00 per hour	\$ 540.00
Expenses (mileage/vehicle).....	\$ <u>57.32</u>
Subtotal, 1100—Watershed Outlet Monitoring Program.....	\$ 597.32

1120—TMDL Implementation Reporting

Subtotal, 1120—TMDL Implementation Reporting.....	\$ 0.00
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SUBTOTAL, 1000—ENGINEERING & MONITORING	\$ 31,428.13
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2000—PLANNING

2010—Next Generation Plan Development

Communications with administrator and internal staff regarding 2025 plan update, internal meeting to brainstorm ideas regarding 2025 plan update schedule, issues, studies, and stakeholder engagement, and follow-up with internal staff and administrator; prepare notes from internal meeting and share with administrator; and prepare for meeting with administrator.

Karen L. Chandler, Principal Engineer/Scientist 4.0 hours @ \$185.00 per hour	\$	740.00
Greg Williams, Engineer/Scientist/Specialist III 1.8 hours @ \$150.00 per hour	\$	270.00
Technicians/Administrative	\$	<u>100.00</u>
Subtotal, 2010—Next Generation Plan Development	\$	1,110.00
SUBTOTAL, 2000—PLANNING	\$	1,110.00

4000—OUTREACH & EDUCATION

4010—Publications/Annual Report

Subtotal, 4010—Publications/Annual Report	\$	0.00
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4040—Education and Public Outreach

Watershed Bicycle Tour

Prepare for and attend September 30 watershed bicycle tour, including communications with administrator regarding tour stops and map, prepare draft/final tour map, review/edit administrator's tour invite flyer and tour handout; and prepare tour stop talking points.

James P. Herbert, Principal Engineer/Scientist 3.7 hours @ \$200.00 per hour	\$	740.00
Karen L. Chandler, Principal Engineer/Scientist 11.0 hours @ \$185.00 per hour	\$	2,035.00
Joshua Vosejka, Engineer/Scientist/Specialist II 3.8 hours @ \$100.00 per hour	\$	<u>380.00</u>
<i>Subtotal, Watershed Bicycle Tour.....</i>	<i>\$</i>	<i>3,155.00</i>
Subtotal, 4040—Education and Public Outreach	\$	3,155.00
SUBTOTAL, 4000—OUTREACH & EDUCATION.....	\$	3,155.00

CAPITAL IMPROVEMENT PROJECTS

Sweeney Lake Water Quality Improvement (SL-8)

Perform Post Alum Treatment Monitoring

Prepare for and perform September 7 monitoring of south basin of Sweeney Lake; review water quality monitoring data and reporting; review lab report; file the chain-of-custody, lab acknowledgement, field reports, and data emails in project folders; internal communications regarding chain of custody and field report datalinks; expenses include Pace Lab charges, and vehicle, equipment, sample shipment, and mileage charges for September monitoring.

Gregory Wilson, Engineer/Scientist/Specialist IV		
0.5 hours @ \$175.00 per hour	\$	87.50
Terri Olson, Engineer/Scientist/Specialist III		
0.5 hours @ \$150.00 per hour	\$	75.00
Technicians/Administrative	\$	631.00
Expenses (Pace/Filtration Apparatus).....	\$	<u>469.10</u>
<i>Subtotal, Perform Post Alum Treatment Monitoring.....</i>	\$	1,262.60
<i>Subtotal, Sweeney Lake Water Quality Improvement (SL-8).....</i>	\$	1,262.60

Schaper Pond Carp Management (SL-3)

Develop revised/final carp control options matrix and recommendations memo for September Commission meeting; and prepare for and follow up from September Commission meeting, including next steps for planned 2022 carp control activities.

Karen L. Chandler, Principal Engineer/Scientist		
1.8 hours @ \$185.00 per hour	\$	333.00
Gregory Wilson, Engineer/Scientist/Specialist IV		
8.0 hours @ \$175.00 per hour	\$	<u>1,400.00</u>
<i>Subtotal, Schaper Pond Carp Management (SL-3).....</i>	\$	1,733.00

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

Prepare draft EAW, including text, tables and figures, internal review and revision, and internal communications; prepare memo for September Commission meeting regarding RGU designation and RGU/BCWMC tasks, and communications with administrator; and update construction plans.

Karen L. Chandler, Principal Engineer/Scientist		
3.9 hours @ \$185.00 per hour	\$	721.50
Patrick Brockamp, Engineer/Scientist/Specialist III		
6.6 hours @ \$125.00 per hour	\$	825.00
Amy Meulebroeck, Engineer/Scientist/Specialist III		
7.7 hours @ \$125.00 per hour	\$	962.50
Edward Anderson, Engineer/Scientist/Specialist II		
1.3 hours @ \$95.00 per hour	\$	123.50
Jessica Butler, Engineer/Scientist/Specialist II		
15.4 hours @ \$120.00 per hour	\$	1,848.00
Tyler Conley, Engineer/Scientist/Specialist II		
9.6 hours @ \$100.00 per hour	\$	960.00
Megan Niess, Engineer/Scientist/Specialist II		
0.8 hours @ \$95.00 per hour	\$	76.00
Tyler Seiboldt, Engineer/Scientist/Specialist II		
9.5 hours @ \$100.00 per hour	\$	950.00
Nicolas Anderson, Engineer/Scientist/Specialist I		
20.5 hours @ \$85.00 per hour	\$	<u>1,742.50</u>

Subtotal, Main Stem Lagoon Dredging Project (2021)(BC-7)..... \$ 8,209.00

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

Prepare for and attend September 7 open house at Bryn Mawr Meadows Park and prepare notes from open house; review existing conditions survey data provided by MPRB, including checking/ converting datums and comparing with Barr survey data; prepare pond sizing spreadsheet; and communications with project partners and internal staff.

Karen L. Chandler, Principal Engineer/Scientist
 1.4 hours @ \$185.00 per hour \$ 259.00

Michelle Kimble, Engineer/Scientist/Specialist IV
 10.7 hours @ \$155.00 per hour..... \$ 1,658.50

Josh P. Phillips, Engineer/Scientist/Specialist II
 2.9 hours @ \$115.00 per hour \$ 333.50

Edward Anderson, Engineer/Scientist/Specialist II
 0.5 hours @ \$95.00 per hour \$ 47.50

*Subtotal, Bryn Mawr Meadows Water Quality Improvement Project
 (2020) (BC-5) \$ 2,298.50*

SUBTOTAL CAPITAL IMPROVEMENTS PROJECTS\$ 13,503.10

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$ 5,282.50
1020	Development/Project Reviews	\$ 6,716.72
1030	Non-fee and Preliminary Reviews	\$ 5,889.00
1040	Commission and TAC Meetings	\$ 756.00
1050	Surveys and Studies	\$ -
1060	Water Quality/Monitoring	\$ 10,195.09
1070	Water Quantity	\$ 986.00
1080	Annual Flood Control Project Inspections	\$ 1,005.50
1090	Municipal Plan Review	\$ -
1100	Watershed Outlet Monitoring Program	\$ 597.32
1110	Annual XP-SWMM Model Updates/Reviews	\$ -
1120	TMDL Implementation Reporting	\$ -
1000	SUBTOTAL ENGINEERING & MONITORING	\$ 31,428.13
2000	PLANNING	
2010	Next Generation Plan Development	\$ 1,110.00
2000	SUBTOTAL PLANNING	\$ 1,110.00
4000	OUTREACH & EDUCATION	
4010	Publications/Annual Report	\$ -
4040	2021 Watershed Bicycle Tour	\$ 3,155.00
4000	SUBTOTAL OUTREACH & EDUCATION	\$ 3,155.00
--	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$ 13,503.10
TOTAL PAYABLE		\$ 49,196.23

Barr declares under the penalties of law that this account, claim, or demand is just and that no part of it has been paid.

