



resourceful. naturally.
engineering and environmental consultants

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

Page # 1
Invoice # 23270051-2021-10
Project # 23/27-0051
Client # 59
December 3, 2021

Invoice of Account with
BARR ENGINEERING COMPANY

For professional services during the period of
October 30, 2021 through November 26, 2021

1000—ENGINEERING & MONITORING

1010—Technical Services

Technical Services

Review MPCA’s revised draft MTD credit page as part of the MN Stormwater Manual and provide draft comments to MPCA, review draft comments provided by the MTD work group, and communications with the administrator; review MPCA resiliency grant RFP, and communications with administrator and internal staff regarding applying for grant and potential work scope; internal communications regarding CIP project feasibility study costs and final report, plat reviews, lake level monitoring and staffing in 2021 and 2022, MPCA chloride site design meeting, and BCWMC floodplain management responsibilities; and project filing.

James P. Herbert, Principal Engineer/Scientist 3.0 hours @ \$200.00 per hour.....	\$	600.00
Karen L. Chandler, Principal Engineer/Scientist 8.1 hours @ \$185.00 per hour.....	\$	1,498.50
Jen Koehler, Engineer/Scientist/Specialist IV 0.5 hours @ \$155.00 per hour.....	\$	77.50
Josh P. Phillips, Engineer/Scientist/Specialist II 1.2 hours @ \$115.00 per hour	\$	138.00
Technicians/Administrative	\$	<u>160.00</u>
<i>Subtotal, Technical Services</i>	<i>\$</i>	<i>2,474.00</i>

Parkers Lake Chloride Work Group

Attend (virtual) November 15 Parkers Lake chloride work group meeting.

Karen L. Chandler, Principal Engineer/Scientist 2.7 hours @ \$185.00 per hour	\$	<u>499.50</u>
<i>Subtotal, Parkers Lake Chloride Work Group</i>	<i>\$</i>	<i>499.50</i>

Monthly Meeting Preparation

Communications/coordination with administrator and internal staff regarding draft/final agenda and meeting packet for November meeting; review/edit draft October meeting minutes; prepare for November 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 November Commission meeting and upcoming meeting agenda items.

James P. Herbert, Principal Engineer/Scientist 3.2 hours @ \$200.00 per hour.....	\$ 640.00
Karen L. Chandler, Principal Engineer/Scientist 13.0 hours @ \$185.00 per hour	\$ 2,405.00
Technicians/Administrative	\$ 580.00
<i>Subtotal, Monthly Meeting Preparation</i>	<i>\$ 3,625.00</i>

TAC Preparation

Communications with administrator, internal staff, and Crystal staff regarding agenda items for November 22 TAC meeting, including XPSWMM model update timing; and prepare for November 22 TAC meeting, including review agenda packet.

Karen L. Chandler, Principal Engineer/Scientist 3.8 hours @ \$185.00 per hour	\$ 703.00
<i>Subtotal, TAC Preparation</i>	<i>\$ 703.00</i>
Subtotal 1010—Technical Services.....	\$ 7,301.50

1020—Development/Project Reviews

Golden Valley Apartments (2021-25)

Review resubmittal for water quality, rate control, and erosion and sediment control; prepare and send approval letter to city staff; and communications with applicant.

Josh P. Phillips, Engineer/Scientist/Specialist II 1.2 hours @ \$115.00 per hour	\$ 138.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 2.2 hours @ \$95.00 per hour	\$ 209.00
<i>Subtotal, Golden Valley Apartments (2021-25).....</i>	<i>\$ 347.00</i>

County Rd 9 & Larch Lane (2021-26)

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

James P. Herbert, Principal Engineer/Scientist 2.2 hours @ \$200.00 per hour	\$ 440.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.4 hours @ \$115.00 per hour	\$ 46.00
Gabrielle Campagnola, Engineer/Scientist/Specialist II 2.2 hours @ \$95.00 per hour	\$ 209.00

Technicians/Administrative	\$	30.00
Expenses (postage)	\$	1.36
<i>Subtotal, County Rd 9 & Larch Lane (2021-26)</i>	\$	726.36

Kingsview Heights Drainage Proj (2021-27)

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

James P. Herbert, Principal Engineer/Scientist 2.0 hours @ \$200.00 per hour	\$	400.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.3 hours @ \$115.00 per hour	\$	34.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 2.0 hours @ \$95.00 per hour	\$	190.00
Technicians/Administrative	\$	30.00
<i>Subtotal, Kingsview Heights Drainage Proj (2021-27)</i>	\$	654.50

GV 2022 PMP-Brentwood (2021-28)

Review grading, drainage, and erosion control plans; prepare draft review memo for December Commission meeting; and communications with applicant.

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$200.00 per hour	\$	200.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.7 hours @ \$115.00 per hour	\$	80.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 3.4 hours @ \$95.00 per hour	\$	323.00
Technicians/Administrative	\$	100.00
Expenses (postage)	\$.53
<i>Subtotal, GV 2022 PMP-Brentwood (2021-28)</i>	\$	704.03

Chick-Fil-A Plymouth (2021-29)

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

James P. Herbert, Principal Engineer/Scientist 1.5 hours @ \$200.00 per hour	\$	300.00
Josh P. Phillips, Engineer/Scientist/Specialist II 1.3 hours @ \$115.00 per hour	\$	149.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 3.1 hours @ \$95.00 per hour	\$	294.50
Technicians/Administrative	\$	100.00
<i>Subtotal, Chick-Fil-A Plymouth (2021-29)</i>	\$	844.00

Ridgedale Sears Redevel – Dicks Sports (2021-30)

Review grading, drainage, and erosion control plans for water quality, rate control, and erosion and sediment control; and communications with applicant.

Josh P. Phillips, Engineer/Scientist/Specialist II 0.7 hours @ \$115.00 per hour	\$	80.50
Gabrielle Campagnola, Engineer/Scientist/Specialist II 5.9 hours @ \$95.00 per hour	\$	560.50
Technicians/Administrative	\$	<u>100.00</u>
<i>Subtotal, Ridgedale Sears Redevel – Dicks Sports (2021-30)</i>	\$	741.00
Subtotal, 1020—Development/Project Reviews	\$	4,016.89

1030—Non-Fee and Preliminary Reviews

Preliminary Reviews

Review MDNR permit application 2021-3699 and provide email comments to administrator and MDNR.

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$200.00 per hour	\$	200.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.2 hours @ \$115.00 per hour	\$	<u>23.00</u>
<i>Subtotal, Preliminary Reviews</i>	\$	223.00

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, commissioners, and internal staff regarding proposed building on top of access to drop shaft in the Bassett Creek tunnel; review City of Minneapolis’ letter in response to BCWMC comments; prepare for November Commission meeting, including preparing presentation; and attend on-site tunnel cover (slab) removal exercise.

James P. Herbert, Principal Engineer/Scientist 16.2 hours @ \$200.00 per hour	\$	3,240.00
Karen L. Chandler, Principal Engineer/Scientist 0.3 hours @ \$185.00 per hour	\$	55.50
Joe Welna, Engineer/Scientist/Specialist IV 0.2 hours @ \$155.00 per hour	\$	31.00
Expenses (mileage)	\$	<u>15.68</u>
<i>Subtotal, North Loop Green Phase III Development (over drop structure)</i>	\$	3,342.18
<i>Subtotal Non-Fee Reviews</i>	\$	3,342.18
Subtotal, 1030— Non-Fee and Preliminary Reviews	\$	3,565.18

1040—Commission and TAC Meetings

Attend November 17 Commission meeting (virtual) and November 22 TAC meeting (virtual).

James P. Herbert, Principal Engineer/Scientist 2.2 hours @ \$200.00 per hour	\$ 440.00
Karen L. Chandler, Principal Engineer/Scientist 4.3 hours @ \$185.00 per hour	\$ 795.50
Subtotal, 1040—Commission and TAC Meetings.....	\$ 1,235.50

1050—Surveys and Studies

XPSWMM Model Update Data Request

Compile provided information; communications with TAC reminding of XPSWMM model update request; and internal communications.

Jen Koehler, Engineer/Scientist/Specialist IV 4.7 hours @ \$155.00 per hour	\$ 728.50
Katie Turpin-Nagel, Engineer/Scientist/Specialist II 0.4 hours @ \$120.00 per hour	\$ 48.00
Subtotal, 1050—Surveys and Studies	\$ 776.50

1060—Water Quality/Monitoring

General Water Quality

Communications with administrator and internal staff regarding administrator’s questions about the listing of Bassett Creek on the MPCA’s 2022 draft impaired waters list for macroinvertebrates; and prepare 2020 lake and stream data for submittal to the MPCA’s EQUIS database.

Karen L. Chandler, Principal Engineer/Scientist 0.8 hours @ \$185.00 per hour	\$ 148.00
Gregory Wilson, Principal Engineer/Scientist 0.5 hours @ \$175.00 per hour	\$ 87.50
Margaret R. Rattei, Engineer/Scientist/Specialist III 0.7 hours @ \$145.00 per hour	\$ 101.50
Technicians/Administrative	\$ 187.00
<i>Subtotal, General Water Quality.....</i>	<i>\$ 524.00</i>

Sweeney Branch Monitoring Year 2

Communications with internal staff regarding dissolved oxygen monitoring plan for 2022; internal staff meeting to discuss schedule for completion of remaining 2021 work, including monitoring, data summary, and report; perform monitoring station maintenance, including replacing battery and resetting/reconnecting modem; set up station for storm sampling; prepare for and collect storm sample on November 10, acid wash sample bottles, and download and process November 10 storm data; expenses include Verizon Wireless charges for monitoring station, mileage charges, and vehicle and equipment charges.

Karen L. Chandler, Principal Engineer/Scientist 0.6 hours @ \$185.00 per hour	\$ 111.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 3.8 hours @ \$145.00 per hour	\$ 551.00

Chris Bonick, Engineer/Scientist/Specialist III 4.5 hours @ \$135.00 per hour	\$ 607.50
Kallie Doeden, Engineer/Scientist/Specialist II 0.3 hours @ \$110.00 per hour	\$ 33.00
Heather Lau, Engineer/Scientist/Specialist II 1.0 hours @ \$120.00 per hour	\$ 120.00
Kyle Weisshahn, Engineer/Scientist/Specialist II 1.1 hours @ \$95.00 per hour	\$ 104.50
Technicians/Administrative	\$ 248.00
Expenses (Verizon/Mileage/ice/Turbidimeter/Conductivity Meter)	\$ <u>77.35</u>
<i>Subtotal, Sweeney Branch Monitoring Year 2.....</i>	<i>\$ 1,627.85</i>

Parkers Lake 2021 Monitoring

Analyze zooplankton sample collected on August 30 and internal communications regarding 2021 monitoring data.

Margaret R. Rattei, Engineer/Scientist/Specialist III 2.8 hours @ \$145.00 per hour	\$ 406.00
Technicians/Administrative	\$ <u>9.00</u>
<i>Subtotal, Parkers Lake 2021 Monitoring.....</i>	<i>\$ 415.00</i>

Westwood Lake 2021 Monitoring

Prepare historical data summary for report; and internal communications regarding 2021 monitoring data.

Margaret R. Rattei, Engineer/Scientist/Specialist III 2.8 hours @ \$145.00 per hour	\$ 406.00
Technicians/Administrative	\$ <u>9.00</u>
<i>Subtotal, Westwood Lake 2021 Monitoring.....</i>	<i>\$ 415.00</i>

Crane Lake 2021 Monitoring

Internal communications regarding 2021 monitoring data.

Margaret R. Rattei, Engineer/Scientist/Specialist III 0.7 hours @ \$145.00 per hour	\$ 101.50
Technicians/Administrative	\$ <u>9.00</u>
<i>Subtotal, Crane Lake 2021 Monitoring.....</i>	<i>\$ 110.50</i>

Subtotal, 1060—Water Quality/Monitoring..... \$ 3,092.35

1070—Water Quantity

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

Technicians/Administrative.....	\$ 420.00
Expenses (mileage/vehicle)	\$ <u>73.00</u>
Subtotal, 1070—Water Quantity	\$ 493.00

1080—Annual Flood Control Project Inspections

Prepare letters regarding results of the annual flood control project inspection; TAC meeting flood control project agenda item: review past inspection charges, review and revise inspection budgets, review deep tunnel repair CIP schedule, prepare items for TAC agenda memo and provide to administrator, prepare for TAC meeting, and communications with administrator and internal staff.

James P. Herbert, Principal Engineer/Scientist 12.7 hours @ \$200.00 per hour.....	\$ 2,540.00
Karen L. Chandler, Principal Engineer/Scientist 3.8 hours @ \$185.00 per hour	\$ 703.00
Joe Welna, Engineer/Scientist/Specialist IV 2.4 hours @ \$155.00 per hour	\$ 372.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.5 hours @ \$115.00 per hour	\$ 57.50
Technicians/Administrative	<u>\$ 300.00</u>
Subtotal, Annual Flood Control Project Inspections	\$ 3,972.50

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/Sontek ADV)	<u>\$ 130.68</u>
Subtotal, 1100—Watershed Outlet Monitoring Program	\$ 670.68

1120—TMDL Implementation Reporting

Subtotal, 1120—TMDL Implementation Reporting \$ 0.00

SUBTOTAL, 1000—ENGINEERING & MONITORING \$ 25,124.10

2000—PLANNING

2010—Next Generation Plan Development

Attend November 8 in-person meeting with administrator to further discuss the 2025 plan process, including the overall plan update schedule/framework, and equity workshop; communications with administrator regarding draft plan update memo and review/edit administrator's revised memo for the November Commission meeting; revise plan update schedule and provide to administrator; and internal communications.

Karen L. Chandler, Principal Engineer/Scientist 4.0 hours @ \$185.00 per hour	\$ 740.00
Stephanie Johnson, Consultant/Advisor 2.8 hours @ \$190.00 per hour	\$ 532.00

Greg Williams, Engineer/Scientist/Specialist III 3.0 hours @ \$150.00 per hour	\$	450.00
Subtotal, 2010—Next Generation Plan Development.....	\$	1,722.00
SUBTOTAL, 2000—PLANNING.....	\$	1,722.00

4000—OUTREACH & EDUCATION

4010—Publications/Annual Report

Subtotal, 4010—Publications/Annual Report	\$	0.00
SUBTOTAL, 4000—OUTREACH & EDUCATION	\$	0.00

CAPITAL IMPROVEMENT PROJECTS

Sweeney Lake Water Quality Improvement (SL-8)

Perform Post Alum Treatment Monitoring

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; and internal communications regarding chain of custody and field report datalinks.

Gregory Wilson, Principal Engineer/Scientist IV 1.0 hours @ \$175.00 per hour	\$	175.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 0.4 hours @ \$145.00 per hour	\$	46.00
<i>Subtotal, Perform Post Alum Treatment Monitoring.....</i>	<i>\$</i>	<i>221.00</i>
<i>Subtotal, Sweeney Lake Water Quality Improvement Project (SL-8)....</i>	<i>\$</i>	<i>221.00</i>

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

Coordination with RGU staff to incorporate minor revisions, finalize, and upload the EAW to the EQB; meeting with administrator to discuss scope and schedule; respond to questions from resident about the project; develop draft 50% design memo for December Commission meeting; export imagery for plan set, plan redlines and revisions; compile 50% plans; and send the plans and draft memo to stakeholders for review.

Karen L. Chandler, Principal Engineer/Scientist 11.4 hours @ \$185.00 per hour.....	\$	2,109.00
Patrick Brockamp, Engineer/Scientist/Specialist III 11.8 hours @ \$125.00 per hour.....	\$	1,475.00
Amy Meulebroeck, Engineer/Scientist/Specialist III 0.4 hours @ \$125.00 per hour	\$	50.00
Tyler Conley, Engineer/Scientist/Specialist II 4.4 hours @ \$100.00 per hour	\$	440.00
Andrew Papke-Larson, Engineer/Scientist/Specialist II 8.8 hours @ \$95.00 per hour	\$	836.00

Joshua Vosejka, Engineer/Scientist/Specialist II
 1.0 hours @ \$100.00 per hour \$ 100.00
Subtotal, Main Stem Lagoon Dredging Project (2021)(BC-7) \$ 5,082.50

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

Prepare for and attend November 15 meeting with SRF and MPRB; review environmental reports relative to concept design, communications with team; prepare CAD drawing files for project; coordinate initial design; and communications with project partners and internal staff.

Karen L. Chandler, Principal Engineer/Scientist
 0.2 hours @ \$185.00 per hour \$ 37.00
 Stephanie Johnson, Consultant/Advisor
 11.0 hours @ \$190.00 per hour \$ 2,090.00
 Jennifer Brekken, Engineer/Scientist/Specialist IV
 1.1 hours @ \$165.00 per hour \$ 181.50
 Michelle Kimble, Engineer/Scientist/Specialist IV
 3.1 hours @ \$155.00 per hour \$ 480.50
 Josh P. Phillips, Engineer/Scientist/Specialist II
 6.1 hours @ \$115.00 per hour \$ 701.50
 Stephanie Linde, Engineer/Scientist/Specialist II
 1.0 hours @ \$110.00 per hour \$ 110.00
 Jacob Daire, Engineer/Scientist/Specialist II
 11.8 hours @ \$95.00 per hour \$ 1,121.00
*Subtotal, Bryn Mawr Meadows Water Quality Improvement Project
 (2020) (BC-5) \$ 4,721.50*

SUBTOTAL CAPITAL IMPROVEMENTS PROJECTS.....\$ 10,025.00

ACCOUNTING CODE	BUDGET LINE ITEM	INVOICE AMOUNT
1000	ENGINEERING & MONITORING	
1010	Technical Services	\$7,301.50
1020	Development/Project Reviews	\$4,016.89
1030	Non-fee and Preliminary Reviews	\$3,565.18
1040	Commission and TAC Meetings	\$1,235.50
1050	Surveys and Studies	\$776.50
1060	Water Quality/Monitoring	\$3,092.35
1070	Water Quantity	\$493.00
1080	Annual Flood Control Project Inspections	\$3,972.50
1090	Municipal Plan Review	\$0.00
1100	Watershed Outlet Monitoring Program	\$670.68
1110	Annual XP-SWMM Model Updates/Reviews	\$0.00
1120	TMDL Implementation Reporting	\$0.00
1000	SUBTOTAL ENGINEERING & MONITORING	\$25,124.10
2000	PLANNING	
2010	Next Generation Plan Development	\$1,722.00
2000	SUBTOTAL PLANNING	\$1,722.00
4000	OUTREACH & EDUCATION	
4010	Publications/Annual Report	\$0.00
4040	2021 Watershed Bicycle Tour	\$0.00
4000	SUBTOTAL OUTREACH & EDUCATION	\$0.00
--	SUBTOTAL CAPITAL IMPROVEMENT PROJECTS	\$10,025.00
TOTAL PAYABLE		\$36,871.10

Please note our new remittance address

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.

