Mr. James Prom Bassett Creek Watershed Management Commission 7800 Golden Valley Road Golden Valley, MN 55427 Page # 1

Invoice # 23270051-2020-2

Project # 23/27-0051

Client # 59 April 3, 2020

Invoice of Account with BARR ENGINEERING COMPANY

For professional services during the period of February 29, 2020 through March 27, 2020

ENGINEERING

TECHNICAL SERVICES

MPCA MTD work group (costs shared with Elm Creek Watershed Management Commissions): prepare for and attend March 2 and March 12 MTD work group meetings at MPCA/conference call, meeting followup with MPCA and BCWMC, and review meeting notes; communications with administrator, internal staff, and MTD manufacturer (Hydro International) regarding BCWMC review of MTDs; communications with NMCWD staff regarding BCWMC and MPCA current MTD status; communications with administrator and internal staff regarding response to resident question about potential flooding and water quality impacts from melting of snowpack from Loppet trails; provide updated tunnel presentation to administrator; meet with administrator regarding street sweeper CIP policy and wetland policy changes and follow-up with internal staff; set up new SharePoint collaboration website for BCWMC; provide Cavanaugh Lake curly-leaf pondweed information to administrator; update 2020 budget spreadsheet; develop draft 2021 budgets for technical services, including water quality budgets, communications with TRPD staff regarding 2021 Parkers monitoring and budget, update 2021 water quality budgets with information from TRPD and new lab cost information, and internal discussions; discuss plat review status with internal staff; communications with Crystal staff regarding erosion along North Branch of Bassett Creek; review internal summary of January 15 TC WaMoDaG meeting; communications with administrator and Minnetonka staff regarding XP SWMM user agreement, and provide user agreement to city staff; and evaluate exemptions from governor's stay-at-home executive order, determine "essential services", and communications with administrator and attorney regarding "essential" vs. "non-essential" field services and documentation.

James P. Herbert, Principal Engineer/Scientist 13.0 hours @ \$200.00 per hour\$	2,600.00
Karen L. Chandler, Principal Engineer/Scientist 33.7 hours @ \$180.00 per hour\$	6,066.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 11.6 hours @ \$140.00 per hour\$	1,624.00

Josh P. Phillips, Engineer/Scientist/Specialist II	
1.8 hours @ \$105.00 per hour\$	189.00
Expenses (Mileage)\$	10.35
Subtotal, Technical Services\$	10,489.35

MONTHLY MEETING PREPARATION

Communications/coordination with administrator and internal staff regarding draft/final agenda and meeting packet for March Commission meeting; review/edit draft February meeting minutes; evaluate and report to administrator regarding water quality benefits/pollutant removals of street sweeping, including review of City of Forest Lake's street sweeping study, USGS street sweeping study, and Stormwater Manual BMP matrix; review/edit administrator's draft memo regarding funding Plymouth street sweeper; communications with Crystal staff regarding street sweeping; prepare for March Commission meeting, including set up Webex conference call, review meeting packet, and communications with administrator and internal staff regarding follow-up items from March Commission meeting, upcoming meeting agenda items, and future virtual meetings.

James P. Herbert, Principal Engineer/Scientist 8.7 hours @ \$200.00 per hour	\$	1,740.00
Karen L. Chandler, Principal Engineer/Scientist 24.6 hours @ \$180.00 per hour	\$	4,428.00
Gregory J. Wilson, Engineer/Scientist/Specialist IV 6.0 hours @ \$170.00 per hour	\$	1,020.00
Technicians/Administrative	\$_	608.00
Subtotal, Monthly Meeting Preparation	\$	7,796.00
TAC PREPARATION		
Subtotal, TAC Preparation	\$	0.00
Subtotal Technical Services	\$	18,285.35
Subtotal Technical Services PLAT REVIEW	\$	18,285.35
	\$	18,285.35
<u>PLAT REVIEW</u>	\$	18,285.35
PLAT REVIEW Four Seasons Mall Redevelopment (2019-25)		18,285.35 31.50
PLAT REVIEW Four Seasons Mall Redevelopment (2019-25) Review resubmittal. Josh P. Phillips, Engineer/Scientist/Specialist II	\$	31.50

Suite Living Crystal (2019-27)

Review revised grading, drainage and erosion control plans for erosion and sediment control; and prepare and send approval letter to the city.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$200.00 per hour	.\$	100.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.6 hours @ \$105.00 per hour	.\$	63.00
Subtotal, Suite Living Crystal	. \$	163.00

Plymouth 2020 Street Reconstruction (2019-28)

Review revised grading, drainage and erosion control plans for erosion and sediment control; and prepare and send approval letter to the city.

James P. Herbert, Principal Engineer/Scientist	
1.0 hours @ \$200.00 per hour\$	200.00
Josh P. Phillips, Engineer/Scientist/Specialist II	
1.9 hours @ \$105.00 per hour\$	199.50
Subtotal, Plymouth 2020 Street Reconstruction\$	399.50

Golden Valley 2020 PMP (2020-01)

Review revised grading, drainage and erosion control plans for erosion and sediment control; and prepare and send approval letter to the city.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$200.00 per hour\$	100.00
Josh P. Phillips, Engineer/Scientist/Specialist II 0.5 hours @ \$105.00 per hour\$	<u>52.50</u>
Subtotal, Golden Valley 2020 PMP\$	152.50

Penn Avenue Union (2020-02)

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

James P. Herbert, Principal Engineer/Scientist		
3.0 hours @ \$200.00 per hour	\$	600.00
Josh P. Phillips, Engineer/Scientist/Specialist II	ф	105.00
1.0 hours @ \$105.00 per hour	\$	105.00
Louise L. Heffernan, Engineer/Scientist/Specialist I		
1.1 hours @ \$100.00 per hour	\$	110.00
Subtotal, Penn Avenue Union	\$	815.00

Plymouth 2020 Pond Maintenance (2020-03)

Review grading, drainage and erosion control plans for erosion and sediment control; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 1.2 hours @ \$200.00 per hour\$	240.00
Josh P. Phillips, Engineer/Scientist/Specialist II 1.5 hours @ \$105.00 per hour\$	157.50
Technicians/Administrative\$_	20.00
Subtotal, Plymouth 2020 Pond Maintenance\$	417.50

CenterPoint 2020 MBLNW (2020-04)

Review grading, drainage and erosion control plans for erosion and sediment control; communications with city staff; and prepare and send approval letter to city staff.

James P. Herbert, Principal Engineer/Scientist 3.5 hours @ \$200.00 per hour\$	700.00
Ross S. Mullen, Engineer/Scientist/Specialist II 0.3 hours @ \$120.00 per hour\$	36.00
Josh P. Phillips, Engineer/Scientist/Specialist II 5.5 hours @ \$105.00 per hour\$	577.50
Josh R. Vosejpka, Engineer/Scientist/Specialist I 0.2 hours @ \$90.00 per hour\$_	18.00
Subtotal, CenterPoint 2020 MBLNW\$	1,331.50

Sweeney Lake Shores (PUD) (2020-05)

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

James P. Herbert, Principal Engineer/Scientist	
1.3 hours @ \$200.00 per hour\$	260.00
Josh P. Phillips, Engineer/Scientist/Specialist II	
5.0 hours @ \$105.00 per hour\$_	525.00
Subtotal, Sweeney Lake Shores (PUD)\$	785.00

Leef South (2020-06)

Review grading, drainage and erosion control plans for erosion and sediment control, floodplain, rate control and water quality; communications with administrator, applicant and city staff; prepare memo for March Commission meeting; and prepare and send comment letter to city staff.

James P. Herbert, Principal Engineer/Scientist	
5.6 hours @ \$200.00 per hour\$	1,120.00

Karen L. Chandler, Principal Engineer/Scientist 2.2 hours @ \$180.00 per hour	\$	396.00
Josh P. Phillips, Engineer/Scientist/Specialist II 14.3 hours @ \$105.00 per hour	\$	1,501.50
Edward M. Anderson, Engineer/Scientist/Specialist I 0.9 hours @ \$90.00 per hour	\$	81.00
Subtotal, Leef South	\$	3,098.50
Utility Reconstruction Kentucky-Jersey Avenue (2020-07)		
Review grading, drainage and erosion control plans for erosion and sediment control	rol.	
James P. Herbert, Principal Engineer/Scientist 1.4 hours @ \$200.00 per hour	\$	280.00
Josh P. Phillips, Engineer/Scientist/Specialist II 2.1 hours @ \$105.00 per hour	\$	220.50
Technicians/Administrative	\$	60.00
Subtotal, Utility Reconstruction Kentuc-Jersey Ave	\$	560.50
Subtotal Plat Review	\$	7,778.50
PRELIMINARY COMMUNICATIONS AND NON-FEE REVIEWS PRELIMINARY COMMUNICATIONS		
PRELIMINARY COMMUNICATIONS AND NON-FEE REVIEWS PRELIMINARY COMMUNICATIONS Review MDNR permit application submitted to BCWMC for a gas line project, com Louis Park staff, and provide comments to administrator/MDNR; and communication consultant regarding sanitary sewer crossing project.		
PRELIMINARY COMMUNICATIONS Review MDNR permit application submitted to BCWMC for a gas line project, com Louis Park staff, and provide comments to administrator/MDNR; and communications.	ons v	
PRELIMINARY COMMUNICATIONS Review MDNR permit application submitted to BCWMC for a gas line project, com Louis Park staff, and provide comments to administrator/MDNR; and communication consultant regarding sanitary sewer crossing project. James P. Herbert, Principal Engineer/Scientist	ons v \$	with Minneapolis 800.00
PRELIMINARY COMMUNICATIONS Review MDNR permit application submitted to BCWMC for a gas line project, com Louis Park staff, and provide comments to administrator/MDNR; and communication consultant regarding sanitary sewer crossing project. James P. Herbert, Principal Engineer/Scientist 4.0 hours @ \$200.00 per hour	ons v \$	with Minneapolis 800.00
PRELIMINARY COMMUNICATIONS Review MDNR permit application submitted to BCWMC for a gas line project, com Louis Park staff, and provide comments to administrator/MDNR; and communication consultant regarding sanitary sewer crossing project. James P. Herbert, Principal Engineer/Scientist 4.0 hours @ \$200.00 per hour	ons v \$	800.00 162.00
PRELIMINARY COMMUNICATIONS Review MDNR permit application submitted to BCWMC for a gas line project, com Louis Park staff, and provide comments to administrator/MDNR; and communication consultant regarding sanitary sewer crossing project. James P. Herbert, Principal Engineer/Scientist 4.0 hours @ \$200.00 per hour	\$ \$	800.00 162.00
PRELIMINARY COMMUNICATIONS Review MDNR permit application submitted to BCWMC for a gas line project, com Louis Park staff, and provide comments to administrator/MDNR; and communication consultant regarding sanitary sewer crossing project. James P. Herbert, Principal Engineer/Scientist 4.0 hours @ \$200.00 per hour	\$ \$	800.00 162.00 962.00
PRELIMINARY COMMUNICATIONS Review MDNR permit application submitted to BCWMC for a gas line project, com Louis Park staff, and provide comments to administrator/MDNR; and communication consultant regarding sanitary sewer crossing project. James P. Herbert, Principal Engineer/Scientist 4.0 hours @ \$200.00 per hour	\$ \$	800.00 162.00 962.00
PRELIMINARY COMMUNICATIONS Review MDNR permit application submitted to BCWMC for a gas line project, com Louis Park staff, and provide comments to administrator/MDNR; and communication consultant regarding sanitary sewer crossing project. James P. Herbert, Principal Engineer/Scientist 4.0 hours @ \$200.00 per hour	\$ \$	800.00 162.00 962.00

Karen L. Chandler, Principal Engineer/Scientist	
1.0 hours @ \$180.00 per hour\$_	180.00
Subtotal, Commission and TAC Meetings\$	440.00
SURVEYS & STUDIES	
Subtotal Surveys & Studies\$	0.00

WATER QUALITY/MONITORING

General Water Quality

Prepare for and attend March 9 meeting with MCES staff and administrator to discuss WOMP monitoring results – chloride loads, trends and reporting; complete draft Main Stem biotic index monitoring report in InDesign and send to administrator for review; complete draft North Branch of Bassett Creek combined water quality and biotic index monitoring report; communications with administrator and internal staff regarding status of North Branch and Main Stem reports; and communications with MCES staff requesting Main Stem 2020 data.

Karen L. Chandler, Principal Engineer/Scientist 6.9 hours @ \$180.00 per hour\$	1,242.00
Gregory J. Wilson, Engineer/Scientist/Specialist IV 3.4 hours @ \$170.00 per hour\$	578.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 6.2 hours @ \$140.00 per hour\$	868.00
Christopher J. Bonick, Engineer/Scientist/Specialist III 2.0 hours @ \$130.00 per hour\$	260.00
Technicians/Administrative\$	1,608.00
Subtotal, General Water Quality\$	4,556.00

Sweeney - Twin Lake Monitoring

Prepare for 2020 monitoring, including bottle order/preparation, internal communications regarding iceout monitoring, and communications with subconsultant regarding 2020 plant surveys.

Terry A. Olson, Engineer/Scientist/Specialist III 0.4 hours @ \$145.00 per hour\$	58.00
Margaret R. Rattei, Engineer/Scientist/Specialist III 1.6 hours @ \$140.00 per hour\$	224.00
Technicians/Administrative\$_	144.00
Subtotal, Sweeney-Twin Lake Monitoring\$	426.00

Medicine Lake Monitoring

Prepare for 2020 monitoring, including communications with TRPD and internal staff, and provide bottles to TRPD for phytoplankton and zooplankton samples.

Margaret R. Rattei, Engineer/Scientist/Specialist III 0.2 hours @ \$140.00 per hour	¢	28.00
Technicians/Administrative		
Subtotal, Medicine Lake Monitoring		145.00
Sweeney Branch Monitoring Year 1	Ф	145.00
Prepare for the upcoming sampling season, including collection of spring snowmer taking flow measurements to begin developing a stage-discharge curve for the site expenses (MCES).	_	•
Christopher J. Bonick, Engineer/Scientist/Specialist III 14.0 hours @ \$130.00 per hour	\$	1,820.00
Kallie B, Doeden, Engineer/Scientist/Specialist II 1.0 hours @ \$100.00 per hour	\$	100.00
Technicians/Administrative	\$	595.00
Expenses (MCES/Verizon Wireless/mileage/2WD field vehicle/Sontek ADV)	<u>\$</u>	1,106.36
Subtotal, Sweeney Branch Monitoring Year 1	\$	3,621.36
2019 Water Quality Monitoring Reports (Carryover)		
Develop preliminary draft of North Branch combined water quality and biotic inde	ex mo	nitoring report.
Technicians/Administrative	\$_	96.00
Subtotal, 2019 Water Quality Monitoring Reports (Carryover)	\$	96.00
Subtotal, Water Quality/Monitoring	\$	8,844.36
WATER QUANTITY		
Measure and review lake level elevations as part of lake-gauging program, and communications regarding April measurements.	d inte	rnal
James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$200.00 per hour	\$	100.00
Technicians/Administrative	\$	800.00
Expenses (2WD vehicle/mileage)	<u>\$</u>	133.46
Subtotal, Water Quantity	\$	1,033.46
FLOOD CONTROL PROJECT ANNUAL INSPECTION & DOUBLE BOX CULVERT IN	ISPEC	CTION
Process double box culvert 2019 inspection data and prepare report.		

Subtotal, Deep Tunnel Inspections \$ 0.00 MUNICIPAL PLAN REVIEWS Prepare for and attend March 10 meeting with Minneapolis staff regarding the city's stormwater ordinance, and communications with administrator. James P. Herbert, Principal Engineer/Scientist 2.8 hours @ \$200.00 per hour \$ 560.00 Subtotal, Municipal Plan Reviews \$ 560.00 Subtotal, Municipal Plan Reviews \$ 560.00 TOTAL ENGINEERING \$ 42,101.17	WATERSHED OUTLET MONITORING PROGRAM (WOMP) Communication with MCES staff regarding flow measurements/ice conditions. Christopher J. Bonick, Engineer/Scientist/Specialist III 0.5 hours @ \$130.00 per hour	65.00 65.00
Subtotal, Flood Control Annual Proj Inspect&Dbl Box Culvert\$ 4,197.50 DEEP TUNNEL INSPECTION Subtotal, Deep Tunnel Inspections	WATERSHED OUTLET MONITORING PROGRAM (WOMP) Communication with MCES staff regarding flow measurements/ice conditions. Christopher J. Bonick, Engineer/Scientist/Specialist III 0.5 hours @ \$130.00 per hour	65.00 65.00
Subtotal, Flood Control Annual Proj Inspect&Dbl Box Culvert\$ 4,197.50 DEEP TUNNEL INSPECTION Subtotal, Deep Tunnel Inspections	WATERSHED OUTLET MONITORING PROGRAM (WOMP) Communication with MCES staff regarding flow measurements/ice conditions. Christopher J. Bonick, Engineer/Scientist/Specialist III 0.5 hours @ \$130.00 per hour	65.00
Subtotal, Flood Control Annual Proj Inspect&Dbl Box Culvert\$ 4,197.50 DEEP TUNNEL INSPECTION Subtotal, Deep Tunnel Inspections	WATERSHED OUTLET MONITORING PROGRAM (WOMP) Communication with MCES staff regarding flow measurements/ice conditions. Christopher J. Bonick, Engineer/Scientist/Specialist III	
Subtotal, Flood Control Annual Proj Inspect&Dbl Box Culvert\$ 4,197.50 DEEP TUNNEL INSPECTION Subtotal, Deep Tunnel Inspections	WATERSHED OUTLET MONITORING PROGRAM (WOMP)	42,101.17
Subtotal, Flood Control Annual Proj Inspect&Dbl Box Culvert\$ 4,197.50 DEEP TUNNEL INSPECTION Subtotal, Deep Tunnel Inspections \$ 0.00 MUNICIPAL PLAN REVIEWS Prepare for and attend March 10 meeting with Minneapolis staff regarding the city's stormwater ordinance, and communications with administrator. James P. Herbert, Principal Engineer/Scientist 2.8 hours @ \$200.00 per hour \$ 560.00 Subtotal, Municipal Plan Reviews \$ 560.00 Subtotal, Municipal Plan Reviews \$ 560.00 TOTAL ENGINEERING \$ 42,101.17		42,101.17
Subtotal, Flood Control Annual Proj Inspect&Dbl Box Culvert\$ 4,197.50 DEEP TUNNEL INSPECTION Subtotal, Deep Tunnel Inspections \$ 0.00 MUNICIPAL PLAN REVIEWS Prepare for and attend March 10 meeting with Minneapolis staff regarding the city's stormwater ordinance, and communications with administrator. James P. Herbert, Principal Engineer/Scientist 2.8 hours @ \$200.00 per hour \$ 560.00 Subtotal, Municipal Plan Reviews \$ 560.00 Subtotal, Municipal Plan Reviews \$ 560.00	TOTAL ENGINEERING\$	42,101.17
Subtotal, Flood Control Annual Proj Inspect&Dbl Box Culvert\$ 4,197.50 DEEP TUNNEL INSPECTION Subtotal, Deep Tunnel Inspections \$ 0.00 MUNICIPAL PLAN REVIEWS Prepare for and attend March 10 meeting with Minneapolis staff regarding the city's stormwater ordinance, and communications with administrator. James P. Herbert, Principal Engineer/Scientist 2.8 hours @ \$200.00 per hour \$ 560.00 Subtotal, Municipal Plan Reviews \$ 560.00	TOTAL ENGINEEDING	42 101 17
Subtotal, Flood Control Annual Proj Inspect&Dbl Box Culvert\$ 4,197.50 DEEP TUNNEL INSPECTION Subtotal, Deep Tunnel Inspections \$ 0.00 MUNICIPAL PLAN REVIEWS Prepare for and attend March 10 meeting with Minneapolis staff regarding the city's stormwater ordinance, and communications with administrator. James P. Herbert, Principal Engineer/Scientist 2.8 hours @ \$200.00 per hour \$ 560.00	Subtotal, Municipal Plan Reviews\$	560.00
Subtotal, Flood Control Annual Proj Inspect&Dbl Box Culvert\$ 4,197.50 DEEP TUNNEL INSPECTION Subtotal, Deep Tunnel Inspections \$ 0.00 MUNICIPAL PLAN REVIEWS Prepare for and attend March 10 meeting with Minneapolis staff regarding the city's stormwater ordinance, and communications with administrator. James P. Herbert, Principal Engineer/Scientist	Subtotal, Municipal Plan Reviews\$	560.00
Subtotal, Flood Control Annual Proj Inspect&Dbl Box Culvert\$ 4,197.50 DEEP TUNNEL INSPECTION Subtotal, Deep Tunnel Inspections \$ 0.00 MUNICIPAL PLAN REVIEWS Prepare for and attend March 10 meeting with Minneapolis staff regarding the city's stormwater	· · · ·	560.00
Subtotal, Flood Control Annual Proj Inspect&Dbl Box Culvert\$ 4,197.50 DEEP TUNNEL INSPECTION Subtotal, Deep Tunnel Inspections		's stormwater
Subtotal, Flood Control Annual Proj Inspect&Dbl Box Culvert\$ 4,197.50 DEEP TUNNEL INSPECTION	MUNICIPAL PLAN REVIEWS	
Subtotal, Flood Control Annual Proj Inspect&Dbl Box Culvert\$ 4,197.50	Subtotal, Deep Tunnel Inspections\$	0.00
·	DEEP TUNNEL INSPECTION	
25.5 hours @ \$145.00 per hour\$ <u>3,697.50</u>		4,197.50
Joseph A. Welna, Engineer/Scientist/Specialist III	Subtotal, Flood Control Annual Proj Inspect&Dbl Box Culvert\$	

CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)

MAIN STEM DREDGING PROJECT FEASIBILITY STUDY (2021) (BC-7)

Survey water surface elevations for all lagoons, including equipment and expenses; update sediment sampling report with TCLP results and compile report; update XP-SWMM modeling and report text; develop annualized engineering, construction, and load reduction costs for report tables; update water quality benefits and methodology; internal discussions regarding stream geomorphology; develop report figures and text; compile draft report; printing expenses for public meeting boards; and project email updates.

Karen L. Chandler, Principal Engineer/Scientist 14.2 hours @ \$180.00 per hour\$	2,556.00
Gregory J. Wilson, Engineer/Scientist/Specialist IV 13.0 hours @ \$170.00 per hour\$	2,210.00
Jennifer A. Koehler, Engineer/Scientist/Specialist III 0.6 hours @ \$145.00 per hour\$	87.00
Peter J. Hinck, Engineer/Scientist/Specialist III 0.4 hours @ \$140.00 per hour\$	56.00
Patrick E. Brockamp, Engineer/Scientist/Specialist II 27.9 hours @ \$115.00 per hour\$	3,208.50
Adam K. Howard, Engineer/Scientist/Specialist III 1.7 hours @ \$130.00 per hour\$	221.00
Brendan H. Dougherty, Engineer/Scientist/Specialist II 1.1 hours @ \$100.00 per hour\$	110.00
Lulu Fang, Engineer/Scientist/Specialist II 4.5 hours @ \$105.00 per hour\$	472.50
Edward M. Anderson, Engineer/Scientist/Specialist I 0.4 hours @ \$90.00 per hour\$	36.00
Rachel C. Mitcavish, Engineer/Scientist/Specialist I 0.3 hours @ \$90.00 per hour\$	27.00
Technicians/Administrative\$	1,048.00
Expenses (Field vehicle/mileage/color plotter) <u>\$</u>	113.50

MOUNT OLIVET STREAM STABILIZATION PROJECT (2021)(ML-20) AND PARKERS LAKE DRAINAGE IMPROVEMENT PROJECT (2021)(PL-7) FEASIBILITY STUDY

Subtotal, Main Stem Dredging Project Feasibility Study.........\$ 10,145.50

Mount Olivet Stream Stabilization Project Feasibility Study (2021)(ML-20)

Prepare for and attend March 4 concept recommendation meeting with administrator and City of Plymouth staff; review and finalize modeling calculations; develop draft feasibility report, including preparing text and tables, and revising figures; internal document review; sending draft feasibility report to administrator and City of Plymouth staff for review; and communications with administrator and City of Plymouth staff.

Karen L. Chandler, Principal Engineer/Scientist 5.5 hours @ \$180.00 per hour\$	990.00
Rachel Durkee Walker, Engineer/Scientist/Specialist III	
8.0 hours @ \$145.00 per hour\$	1,160.00

Adam K. Howard, Engineer/Scientist/Specialist III 26.4 hours @ \$130.00 per hour\$	3,432.00
Kallie B, Doeden, Engineer/Scientist/Specialist II 29.1 hours @ \$100.00 per hour\$	2,910.00
Edward M. Anderson, Engineer/Scientist/Specialist I 2.2 hours @ \$90.00 per hour\$	198.00
Joshua R. Vosejpka, Engineer/Scientist/Specialist I 4.9 hours @ \$90.00 per hour\$	441.00
Tyler A. Conley, Engineer/Scientist/Specialist I 0.5 hours @ \$85.00 per hour\$	42.50
Technicians/Administrative\$_	756.00
Subtotal, Mount Olivet Stream Stabilization Project Feas Study\$	9,929.50

Parkers Lake Drainage Improvement Project (2021)(PL-7)

Prepare for and attend March 4 concept recommendation meeting with administrator and City of Plymouth staff; follow-up on chlorides-related concept items, based on March 4 meeting discussion; review and finalize modeling calculations; develop draft feasibility report, including preparing text and tables, and revising figures; internal document review; sending draft feasibility report to administrator and City of Plymouth staff for review; and communications with administrator and City of Plymouth staff.

Karen L. Chandler, Principal Engineer/Scientist 8.0 hours @ \$180.00 per hour\$	1,440.00
Jennifer A. Koehler, Engineer/Scientist/Specialist III 25.0 hours @ \$145.00 per hour\$	3,625.00
Rachel Durkee Walker, Engineer/Scientist/Specialist III 8.3 hours @ \$145.00 per hour\$	1,203.50
Adam K. Howard, Engineer/Scientist/Specialist III 29.7 hours @ \$130.00 per hour\$	3,861.00
Kallie B, Doeden, Engineer/Scientist/Specialist II 29.1 hours @ \$100.00 per hour\$	2,910.00
Edward M. Anderson, Engineer/Scientist/Specialist I 1.0 hours @ \$90.00 per hour\$	90.00
Joshua R. Vosejpka, Engineer/Scientist/Specialist I 5.3 hours @ \$90.00 per hour\$	477.00
Tyler A. Conley, Engineer/Scientist/Specialist I 0.5 hours @ \$85.00 per hour\$	42.50
Technicians/Administrative\$_	696.00
Subtotal, Parkers Lake Drainage Improvement Project Feas Study \$	14,345.00
Subtotal, Mt. Olivet Stream Stabilization Project & Parkers Lake Drainage Improvement Project Feasibility Study\$	24,274.50

James P. Herbert, Principal Engineer/Scientist

SWEENEY LAKE WATER QUALITY IMPROVEMENT PROJECT (2020) (SL-8)

Develop subconsultant agreement for curly-leaf pondweed herbicide applicator; prepare for curly-leaf pondweed pre-treatment monitoring, including communications with aquatic plant survey subconsultant, review temperature data from other treatment projects, and communications with internal staff regarding status of temperature measurements; plan work scope/schedule and finalize subcontract with Carp Solutions; and prepare for April 8 open house, including communications with administrator and internal staff regarding open house alternatives (e.g., Webex, Zoom, conference call) and logistics, review/edit administrator's draft letter to residents, review and distribute background presentation materials, and schedule Webex virtual open house webinar and practice session.

TOTAL CAPITAL IMPROVEMENTS PROJECTS (Tax Levy)\$ DL WORK TOTAL TMDL WORK\$ PROVED FEMA FLOODPLAIN MODELING & MAPPING (MDNR)	0.00
DL WORK	0.00
TOTAL CAPITAL IMPROVEMENTS PROJECTS (Tax Levy)\$	
	41,305.00
Subtotal, Sweeney Lake Water Quality Improvements\$	6,885.00
Technicians/Administrative\$_	342,00
Margaret R. Rattei, Engineer/Scientist/Specialist III 3.1 hours @ \$140.00 per hour\$	434.00
Gregory J. Wilson, Engineer/Scientist/Specialist IV 17.1 hours @ \$170.00 per hour\$	2,907.00
16.9 hours @ \$180.00 per hour\$	3,042.00
Karen L. Chandler, Principal Engineer/Scientist	

SUMMARY TOTALS

Total Engineering\$	42,101.17
Total WOMP\$	
Total APM/AIS Work\$	0.00
Total TMDL Work\$	0.00
Total Capital Improvement Projects (Tax Levy)\$	
Total Improved FEMA Floodplain Modeling & Mapping (MDNR)\$	
TOTAL PAYABLE\$	83.471.17

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

Jim Helbert