



Bassett Creek WMO  
7800 Golden Valley Road  
Golden Valley, MN 55427

Page # 1  
Invoice # 23270051-2014-5  
Project # 23/27-0051  
Client # 59  
July 3, 2014

Invoice of Account with  
BARR ENGINEERING COMPANY

For professional services during the period of  
May 31, 2014 through June 27, 2014

**ENGINEERING**

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, administrator, recording administrator, watershed communities and interested citizens; communications and meeting with administrator and Golden Valley staff regarding 2016 CIP project process and potential accelerated schedule; communications with administrator regarding meeting with Medicine Lake city council; provide XP SWMM model to Plymouth staff, in response to request; and review project budgets; review grant information and email to administrator regarding grant status; communications with Commission Attorney and administrator regarding potential BCWMC dissolution.

Karen L. Chandler, Consultant/Advisor	
4.8 hours @ \$155.00 per hour.....	\$ 744.00
Rita W. Weaver, Engineer/Scientist/Specialist III	
0.4 hours @ \$125.00 per hour.....	\$ 50.00
Amy R. Anderson, Engineer/Scientist/Specialist I	
0.5 hours @ \$85.00 per hour.....	\$ 42.50
Technicians/Administrative .....	\$ 508.00
Expenses (mileage).....	\$ 12.32
<i>Subtotal, Technical Services.....</i>	<i>\$ 1,356.82</i>

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Coordination with Engineering Design regarding Plymouth development; coordination with HGA regarding proposed project in Bassett Creek watershed; coordination with Lance Engineering regarding Plymouth project; coordination with realtor regarding Plymouth project; coordination with Rehder regarding 13105 12th Avenue North project in Plymouth; respond to question from Crystal staff regarding storm water quality treatment at site and communications with Golden Valley staff regarding bridge removal.

James P. Herbert, Principal Engineer/Scientist 3.0 hours @ \$165.00 per hour.....	\$ 495.00
Karen L. Chandler, Consultant/Advisor 0.7 hours @ \$155.00 per hour.....	\$ 108.50
Rita W. Weaver, Engineer/Scientist/Specialist III 0.6 hours @ \$125.00 per hour.....	\$ 75.00
<i>Subtotal, Preliminary Site Review/Correspondence .....</i>	<i>\$ 678.50</i>

#### MONTHLY MEETING PREPARATION

Communications/coordination with administrator and recording administrator regarding agenda and meeting packet for June 2014 meeting; review and edit draft May Commission meeting minutes and email to administrator; prepare for June Commission meeting, including meeting/conference call with administrator and Chair de Lambert regarding meeting agenda and respond to administrator's invoice question; communications with administrator regarding post-meeting action items; internal meeting regarding June Commission meeting; communications with administrator regarding future meeting agenda items; and provide grant tracking information to administrator.

James P. Herbert, Principal Engineer/Scientist 6.5 hours @ \$165.00 per hour.....	\$ 1,072.50
Karen L. Chandler, Consultant/Advisor 18.4 hours @ \$155.00 per hour.....	\$ 2,852.00
<i>Subtotal, Monthly Meeting Preparation .....</i>	<i>\$ 3,924.50</i>

#### CHANNEL MAINTENANCE FUND

Communications with Golden Valley staff regarding channel maintenance fund process.

Karen L. Chandler, Consultant/Advisor 0.2 hours @ \$155.00 per hour.....	\$ 31.00
<i>Subtotal, Channel Maintenance Fund .....</i>	<i>\$ 31.00</i>

#### TAC MEETING PREPARATION

Prepare for June 5 TAC meeting; review and edit draft TAC memo; and communications with administrator.

Karen L. Chandler, Consultant/Advisor 1.9 hours @ \$155.00 per hour.....	\$ 294.50
<i>Subtotal, TAC Meeting Preparation.....</i>	<i>\$ 294.50</i>

*Subtotal Technical Services.....\$ 6,285.32*

#### PLAT REVIEW

Note: Projects in **Bold** have provided review fees to offset review costs. Projects not in Bold are either in a preliminary stage or do not require application fee.

**I-494 Corridor Project (2014-05)**

Coordination with MN/DOT's consultant regarding BCWMC requirements; reviewed meeting notes and provided comments regarding BCWMC requirements; phone call with SRF regarding the project, proposed BMPs and potential use of sand filters.

James P. Herbert, Principal Engineer/Scientist	
2.3 hours @ \$165.00 per hour .....	\$ 379.50
<i>Subtotal, I-494 Corridor Project.....</i>	<i>\$ 379.50</i>

**Plymouth Theatre Add/Remodel (2014-12)**

Review grading, drainage and erosion control plans; prepare letter to City of Plymouth; review updated plans; prepare approval letter to City of Plymouth; and project close-out.

James P. Herbert, Principal Engineer/Scientist	
0.5 hours @ \$165.00 per hour.....	\$ 82.50
Rita W. Weaver, Engineer/Scientist/Specialist III	
4.6 hours @ \$125.00 per hour.....	\$ 575.00
Technicians/Administrative .....	\$ 42.50
<i>Subtotal, Plymouth Theatre Add/Remodel.....</i>	<i>\$ 700.00</i>

**France Avenue Trunk Drainage Realignment (2014-13)**

Preliminary review of Robbinsdale plans and communications with Robbinsdale staff.

James P. Herbert, Principal Engineer/Scientist	
1.4 hours @ \$165.00 per hour.....	\$ 231.00
Rita W. Weaver, Engineer/Scientist/Specialist III	
0.4 hours @ \$125.00 per hour.....	\$ 50.00
Technicians/Administrative .....	\$ 42.50
<i>Subtotal, France Ave Trunk Drainage Realignment .....</i>	<i>\$ 323.50</i>

**Eliot Park Apartments Site (2014-14)**

Review revised grading, drainage and erosion control plans; communications with applicant; and prepare letter to City of St. Louis Park.

James P. Herbert, Principal Engineer/Scientist	
1.9 hours @ \$165.00 per hour.....	\$ 313.50
Rita W. Weaver, Engineer/Scientist/Specialist III	
9.6 hours @ \$125.00 per hour.....	\$ 1,200.00
Candice M. Kantor, Engineer/Scientist/Specialist I	
1.5 hours @ \$90.00 per hour .....	\$ 135.00
Technicians/Administrative .....	\$ 42.50
<i>Subtotal, Eliot Park Apartments Site.....</i>	<i>\$ 1,691.00</i>

### **United Rentals Site Improvements (2014-15)**

Telephone call with applicant regarding project and preliminary review of plans.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$165.00 per hour.....	\$ 82.50
Technicians/Administrative .....	\$ 42.50
<i>Subtotal, United Rentals Site Improvements.....</i>	<i>\$ 125.00</i>
 <i>Subtotal Plat Review.....</i>	 <i>\$ 3,219.00</i>

### **COMMISSION AND TAC MEETINGS**

Attend June 5<sup>th</sup> TAC meeting, June 19<sup>th</sup> Commission meeting and June 9<sup>th</sup> Plan Steering Committee meeting.

Karen L. Chandler, Consultant/Advisor 9.6 hours @ \$155.00 per hour.....	\$ 1,488.00
<i>Subtotal, Commission Meetings.....</i>	<i>\$ 1,488.00</i>

### **WATER QUALITY/MONITORING**

Review and edit draft press release regarding Wirth Lake de-listing; review and comment on MCES WOMP monitoring results; respond to Sweeney Lake Eurasian water milfoil question from Golden Valley staff; Twin and Sweeney Lake 2014 monitoring: prepare for and perform June lake water quality sampling, including calibration of equipment, and collection of zooplankton and phytoplankton; and provide GIS data and map documents for aquatic plant survey subcontractor; uploaded 2013 Chlorophyll and voltage field data and performance of QA/QC; communications regarding aquatic plant surveys of Sweeney and Twin lakes; communication with Crystal staff regarding snow management question; respond to City of Golden Valley regarding Sweeney Lake blue-green algae bloom; provided MPCA website materials regarding blue-green algae bloom to administrator and Golden Valley; follow-up with administrator and Golden Valley staff regarding aquatic plant survey results for Sweeney Lake; communications with Golden Valley staff regarding notification of Sweeney residents regarding blue-green algae bloom; communications with Plymouth staff regarding sewage spills; identification of bloom causing algal species in North Basin and South Basin samples collected on June 18.

Henry M. Runke, Principal Engineer/Scientist 1.5 hours @ \$170.00 per hour.....	\$ 255.00
Karen L. Chandler, Consultant/Advisor 8.0 hours @ \$155.00 per hour.....	\$ 1,240.00
Gregory J. Wilson, Engineer/Scientist/Specialist III 4.0 hours @ \$145.00 per hour.....	\$ 580.00
Margaret R. Rattei, Engineer/Scientist/Specialist II 6.5 hours @ \$120.00 per hour.....	\$ 780.00
Kelly A. Wild, Engineer/Scientist/Specialist I 0.5 hours @ \$80.00 per hour .....	\$ 40.00

Technicians/Administrative .....	\$ 699.50
Expenses (filtration apparatus/canoe/WQ meter/mileage/2WD field vehicle) .....	\$ 142.92
<i>Subtotal, Water Quality Monitoring.....</i>	<i>\$ 3,737.42</i>

#### WATER QUANTITY

Measure and review lake level elevations as part of the lake-gauging program (usual monthly measurement, plus additional measurements after June 19 rainfall); site visits to view high water levels/flooding in watershed after June 19 rainfall, including Wirth Park, Schaper Pond, Sweeney Lake, Sweeney Branch, Minnaqua area, Wisconsin Avenue structure, Medicine Lake outlet, and Plymouth Creek fish barrier; and review flow rates and flood levels of Main Stem in Minneapolis; phone call from Golden Valley staff regarding flooding; review flood concerns and flooding issues; communications with administrator, commissioners and Golden Valley staff regarding Wirth Lake outlet operation; review historical Medicine Lake water levels; review and verify flood flows in Commission flood information tables.

James P. Herbert, Principal Engineer/Scientist 8.0 hours @ \$165.00 per hour.....	\$ 1,320.00
Karen L. Chandler, Consultant/Advisor 6.2 hours @ \$155.00 per hour.....	\$ 961.00
Rita W. Weaver, Engineer/Scientist/Specialist III 0.6 hours @ \$125.00 per hour .....	\$ 75.00
Technicians/Administrative .....	\$ 1,602.00
Expenses (Mileage/2WD vehicle/equipment).....	\$ 202.68
<i>Subtotal, Water Quantity .....</i>	<i>\$ 4,160.68</i>

#### FLOOD CONTROL PROJECT INSPECTION

Coordination with Minneapolis staff and administrator regarding inspection.

James P. Herbert, Principal Engineer/Scientist 1.0 hours @ \$165.00 per hour.....	\$ 165.00
<i>Subtotal, Flood Control Project Inspection.....</i>	<i>\$ 165.00</i>

**TOTAL ENGINEERING .....\$ 19,055.42**

<b>SECRETARIAL SERVICES</b>
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#### SECRETARIAL SERVICES EXPENSES

Expenses (postage, B&W copies) .....	\$ 8.33
<b>TOTAL SECRETARIAL SERVICES EXPENSES.....</b>	<b>\$ 8.33</b>

<b>PLANNING</b>
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NEXT GENERATION PLAN

Review and edit May 19 and June 9 PSC meeting notes and email to administrator; revise water quality policy per May 19 PSC meeting; revise eligible project cost table; update policy review schedule; prepare materials for June 9 PSC meeting packet; prepare for and attend June 9 PSC meeting; internal discussions and communications with Attorney LeFevere regarding transfer of public ditches; review and revise draft policies regarding wetlands, chloride, ditches and climate change; continue work on land and water resource inventory section; and communications with administrator;

Karen L. Chandler, Consultant/Advisor	
5.8 hours @ \$155.00 per hour.....	\$ 899.00
Sterling G. Williams, Engineer/Scientist/Specialist II	
13.7 hours @ \$115.00 per hour.....	\$ 1,575.50
Joshua R. Vosejpka, Engineer/Scientist/Specialist I	
1.0 hours @ \$70.00 per hour .....	\$ 70.00
Katelyn J. Nagel, Engineer/Scientist/Specialist I	
10.1 hours @ \$65.00 per hour.....	\$ 656.50
Technicians/Administrative .....	\$ 42.50
<i>Subtotal, Next Generation Plan .....</i>	<i>\$ 3,243.50</i>

**TOTAL PLANNING (Next Generation Plan) .....\$ 3,243.50**

<b>PLANNING (Funded through Flood Control Project Long-term Maintenance Funds</b>
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FLOOD CONTROL PROJECT – MAINTENANCE AND REPLACEMENT PLAN

**TOTAL PLANNING (Maintenance Funds).....\$ 0.00**

<b>ANNUAL REPORT</b>
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**TOTAL ANNUAL REPORT.....\$ 0.00**

<b>PUBLIC COMMUNICATIONS</b>
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**TOTAL PUBLIC COMMUNICATIONS .....\$ 0.00**

<b>WEBSITE</b>
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**TOTAL WEBSITE.....\$ 0.00**

<b>WATERSHED OUTLET MONITORING PROGRAM (WOMP)</b>
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WATERSHED OUTLET MONITORING PROGRAM (WOMP)

Download and review WOMP station flow data.

Christopher J. Bonick, Engineer/Scientist/Specialist II	
0.5 hours @ \$115.00 per hour.....	\$ 57.50
<i>Subtotal, Watershed Outlet Monitoring Program.....</i>	<i>\$ 57.50</i>
<b>TOTAL WOMP .....</b>	<b>\$ 57.50</b>

<b>CAPITAL IMPROVEMENT PROJECTS (Funded through tax levy)</b>
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CEDAR LAKE ROAD TO GOLDEN VALLEY ROAD, 2012 MAIN STEM (2012 CR)

Prepare for and attend June 4 meeting with MPRB staff, MPRB consultant and administrator regarding project schedule, SHPO and COE permitting/approvals and possible project revisions; and follow-up communications with MPRB and its consultant regarding modeling of project area where fill is proposed; coordination with internal staff regarding floodplain modeling QAQC review; communications with MPRB staff and consultant regarding status of COE permitting.

Karen L. Chandler, Consultant/Advisor	
7.0 hours @ \$155.00 per hour .....	\$ 1,085.00
Jeffrey D. Weiss, Engineer/Scientist/Specialist II	
2.5 hours @ \$115.00 per hour .....	\$ 287.50
Expenses (Mileage) .....	\$ 8.40
<i>Subtotal, Cedar Lk Rd to Golden Valley Rd, 2012 Main Stem .....</i>	<i>\$ 1,380.90</i>

SCHAPER POND DIVERSION PROJECT (SL-3)

Prepare draft document providing a project summary/background and list of questions for June 26 meeting with MPCA commissioner and staff regarding the Commission's Schaper Pond project; revise document per administrator comments; email final summary document and attachments to MPCA commissioner in preparation for June 26 meeting; and communications with administrator, Golden Valley staff, and MPCA Commissioner; prepare for and attend meeting with MPCA Commissioner; internal discussion regarding existing BMPs in Sweeney watershed; review and edit summary of June 26 meeting with MPCA and provide to administrator; communications with Golden Valley staff and Chair de Lambert.

Leonard J. Kremer, Principal Engineer/Scientist	
11.1 hours @ \$180.00 per hour .....	\$ 1,998.00
Karen L. Chandler, Consultant/Advisor	
6.9 hours @ \$155.00 per hour .....	\$ 1,069.50
Gregory J. Wilson, Engineer/Scientist/Specialist III	
7.2 hours @ \$145.00 per hour .....	\$ 1,044.00
Technicians/Administrative .....	\$ 20.00
<i>Subtotal, Schaper Pond Diversion Project .....</i>	<i>\$ 4,131.50</i>

**BRIARWOOD-DAWNVIEW POND (BC-7)**

Communications with Golden Valley staff and consultant regarding review and P8 model; review updated plans and P8 model; internal meeting regarding review of plans and P8 model.

James P. Herbert, Principal Engineer/Scientist	
0.5 hours @ \$165.00 per hour .....	\$ 82.50
Karen L. Chandler, Consultant/Advisor	
1.6 hours @ \$155.00 per hour .....	\$ 248.00
Rita W. Weaver, Engineer/Scientist/Specialist III	
4.1 hours @ \$125.00 per hour .....	\$ 512.50
Gregory J. Wilson, Engineer/Scientist/Specialist III	
1.5 hours @ \$145.00 per hour .....	\$ 217.50
<i>Subtotal, Briarwood-Dawnview Pond .....</i>	<i>\$ 1,060.50</i>

**MAIN STEM: 10<sup>TH</sup> AVENUE-DULUTH STREET (2015CR)**

Review revised draft feasibility study and Golden Valley consultant's response to Commission Engineer comments; communications with Golden Valley staff regarding feasibility study, Resource Management Plan, and COE permitting; prepare review memo regarding feasibility study for June Commission meeting; prepare for and attend Hennepin County Board Committee meeting regarding major plan amendment; and communications with administrator and Hennepin County staff.

James P. Herbert, Principal Engineer/Scientist	
0.5 hours @ \$165.00 per hour .....	\$ 82.50
Karen L. Chandler, Consultant/Advisor	
10.1 hours @ \$155.00 per hour .....	\$ 1,565.50
Jeffrey D. Weiss, Engineer/Scientist/Specialist II	
3.0 hours @ \$115.00 per hour .....	\$ 345.00
<i>Subtotal, Main Stem: 10<sup>th</sup> Ave – Duluth Street .....</i>	<i>\$ 1,993.00</i>

**BRYN MAWR MEADOWS (2016)**

Evaluate other options for BMPs in neighborhood streets and ROW in the park and discuss feasibility with Minneapolis staff; provide summary/update to administrator regarding project status; and communications with Minneapolis staff.

Kurt A. Leuthold, Principal Engineer/Scientist	
2.2 hours @ \$160.00 per hour .....	\$ 352.00
Karen L. Chandler, Consultant/Advisor	
1.8 hours @ \$155.00 per hour .....	\$ 279.00
<i>Subtotal, Bryn Mawr Meadows .....</i>	<i>\$ 631.00</i>

**TOTAL CAPITAL IMPROVEMENTS PROJECTS (Tax Levy) .....\$ 9,196.90**



<b>CAPITAL IMPROVEMENT PROJECTS (Funded through Flood Control Project Long-term Maintenance Funds)</b>
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<b>TOTAL CAPITAL IMPROVEMENT PROJECTS (Maintenance Funds) .....</b>	<b>\$ 0.00</b>
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<b>TMDL WORK</b>
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**TMDL IMPLEMENTATION REPORTING**

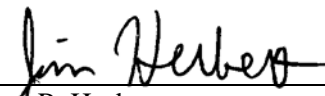
P8 Model Update: communications with Golden Valley staff regarding addition of BMPs to P8 model; review/revise P8 model subwatersheds; and review Minneapolis storm sewer pipe information.

Gregory J. Wilson, Engineer/Scientist/Specialist III 3.8 hours @ \$145.00 per hour.....	\$ 551.00
Ross S. Mullen, Engineer/Scientist/Specialist I 0.4 hours @ \$80.00 per hour .....	\$ 32.00
<i>Subtotal, TMDL Studies.....</i>	<i>\$ 583.00</i>
<b>TOTAL TMDL STUDIES .....</b>	<b>\$ 583.00</b>

<b>SUMMARY TOTALS</b>
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<b>Total Engineering .....</b>	<b>\$ 19,055.42</b>
<b>Total Secretarial Services Expenses.....</b>	<b>\$ 8.33</b>
<b>Total Planning (Next Generation Plan) .....</b>	<b>\$ 3,243.50</b>
<b>Total Planning (Maintenance Funds) .....</b>	<b>\$ 0.00</b>
<b>Total Annual Report/Website/Public Communications .....</b>	<b>\$ 0.00</b>
<b>Total WOMP .....</b>	<b>\$ 57.50</b>
<b>Total Capital Improvement Projects (Tax Levy) .....</b>	<b>\$ 9,196.90</b>
<b>Total Capital Improvement Projects (Maintenance Funds).....</b>	<b>\$ 0.00</b>
<b>Total TMDL Studies.....</b>	<b>\$ 583.00</b>
<b>TOTAL PAYABLE .....</b>	<b>\$ 32,144.65</b>

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

  
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James P. Herbert