



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

Page # 1  
Invoice # 23270051-2014-7  
Project # 23/27-0051  
Client # 59  
October 3, 2014

Invoice of Account with  
BARR ENGINEERING COMPANY

For professional services during the period of  
August 30, 2014 through September 26, 2014

**ENGINEERING**

TECHNICAL SERVICES

Calls/emails to or from the Commissioners, administrator, watershed communities and interested citizens; and communications with administrator regarding Sweeney Lake DNR permit, status of numerous projects, and impact of flooding on CWF projects in BCWMC.

James P. Herbert, Principal Engineer/Scientist	
0.5 hours @ \$165.00 per hour.....	\$ 82.50
Karen L. Chandler, Consultant/Advisor	
4.6 hours @ \$155.00 per hour.....	\$ 713.00
Technicians/Administrative .....	\$ 225.00
<i>Subtotal, Technical Services .....</i>	<i>\$ 1,020.50</i>

PRELIMINARY SITE REVIEW/CORRESPONDENCE

Coordination with Loucks regarding project in Plymouth at Highway 55 and 169; coordination with EVS regarding Lakewest project in Golden Valley; coordination and respond to request for information from University of Minnesota professor regarding Ridgedale Pond; and communications with Oliver & Associates regarding Room & Board site.

James P. Herbert, Principal Engineer/Scientist	
2.8 hours @ \$165.00 per hour.....	\$ 462.00
Karen L. Chandler, Consultant/Advisor	
0.6 hours @ \$155.00 per hour.....	\$ 93.00
<i>Subtotal, Preliminary Site Review/Correspondence .....</i>	<i>\$ 555.00</i>

MONTHLY MEETING PREPARATION

Communications/coordination with administrator and recording administrator regarding draft/final agenda and meeting packet for September 2014 meeting; prepare for September Commission meeting, including meeting with Chair de Lambert and administrator to review meeting agenda;

internal meeting regarding September Commission meeting; provide grant tracking information to administrator; and communications with administrator regarding November meeting.

James P. Herbert, Principal Engineer/Scientist	
10.3 hours @ \$165.00 per hour.....	\$ 1,699.50
Karen L. Chandler, Consultant/Advisor	
8.0 hours @ \$155.00 per hour.....	\$ 1,240.00
Expenses (mileage).....	\$ 3.36
<i>Subtotal, Monthly Meeting Preparation.....</i>	<i>\$ 2,942.86</i>

#### CHANNEL MAINTENANCE FUND

Communications with Golden Valley staff and property owner's consultant regarding channel restoration project, BCWMC project review, and funding.

James P. Herbert, Principal Engineer/Scientist	
1.0 hours @ \$165.00 per hour.....	\$ 165.00
Karen L. Chandler, Consultant/Advisor	
1.3 hours @ \$155.00 per hour.....	\$ 201.50
<i>Subtotal, Channel Maintenance Fund.....</i>	<i>\$ 366.50</i>

#### TAC MEETING PREPARATION

Communications with administrator regarding draft October TAC meeting agenda items; and print TAC meeting materials and mail to Commissioners Crough and Carlson.

Karen L. Chandler, Consultant/Advisor	
2.1 hours @ \$155.00 per hour.....	\$ 325.50
Technicians/Administrative .....	\$ 42.50
Expenses (postage).....	\$ 2.80
<i>Subtotal, TAC Meeting Preparation.....</i>	<i>\$ 370.80</i>

*Subtotal Technical Services.....* \$ 5,255.66

#### 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.

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

Communications with administrator regarding resident inquiry about project; and review resident inquiry about project.

James P. Herbert, Principal Engineer/Scientist	
0.5 hours @ \$165.00 per hour.....	\$ 82.50
Karen L. Chandler, Consultant/Advisor	
0.4 hours @ \$155.00 per hour.....	\$ 62.00
<i>Subtotal, France Ave Trunk Drainage Realignment .....</i>	<i>\$ 144.50</i>

#### **Hilde Performance Center Phase 2 Site Improvements (2014-16)**

Review revised grading, drainage, and erosion control plans; coordination with applicant and city staff; prepare and send approval letter to City of Plymouth with review comments; and archive documents.

James P. Herbert, Principal Engineer/Scientist	
0.7 hours @ \$165.00 per hour.....	\$ 115.50
Candice M. Kantor, Engineer/Scientist/Specialist I	
1.3 hours @ \$90.00 per hour .....	\$ 117.00
<i>Subtotal, Hilde Performance Ctr Ph 2 Site Improvements .....</i>	<i>\$ 232.50</i>

#### **Morrie's Luxury Auto (2014-17)**

Review revised grading, drainage, and erosion control plans, send approval letter to Golden Valley; and archive documents.

James P. Herbert, Principal Engineer/Scientist	
0.7 hours @ \$165.00 per hour.....	\$ 115.50
Candice M. Kantor, Engineer/Scientist/Specialist I	
1.3 hours @ \$90.00 per hour .....	\$ 117.00
<i>Subtotal, Morrie's Luxury Auto .....</i>	<i>\$ 232.50</i>

#### **KIA of St. Louis Park (2014-19)**

Review grading, drainage and erosion control plans; coordination with applicant and St. Louis Park staff; prepare and send letter to St. Louis Park with review comments.

James P. Herbert, Principal Engineer/Scientist	
1.5 hours @ \$165.00 per hour.....	\$ 247.50
Karen L. Chandler, Consultant/Advisor	
0.3 hours @ \$155.00 per hour .....	\$ 46.50
Candice M. Kantor, Engineer/Scientist/Specialist I	
4.0 hours @ \$90.00 per hour .....	\$ 360.00
<i>Subtotal, KIA of St. Louis Park .....</i>	<i>\$ 654.00</i>

#### **Porsche of Minneapolis (2014-20)**

Review grading, drainage and erosion control plans; coordination with applicant and Golden Valley staff; and prepare and send letter to Golden Valley with review comments.

James P. Herbert, Principal Engineer/Scientist	
1.8 hours @ \$165.00 per hour.....	\$ 297.00
Candice M. Kantor, Engineer/Scientist/Specialist I	
5.8 hours @ \$90.00 per hour .....	\$ 522.00
Technicians/Administrative .....	\$ 42.50
<i>Subtotal, Porsche of Minneapolis .....</i>	<i>\$ 861.50</i>

**Winnetka Commons (2014-21)**

Review grading, drainage and erosion control plans; coordination with applicant and New Hope staff; review of P8 model (troubleshoot missing files); review P8 model and results; prepare review memorandum for September Commission meeting; and prepare and send letter to New Hope with review comments.

James P. Herbert, Principal Engineer/Scientist 5.3 hours @ \$165.00 per hour.....	\$ 874.50
Karen L. Chandler, Consultant/Advisor 0.2 hours @ \$155.00 per hour.....	\$ 31.00
Candice M. Kantor, Engineer/Scientist/Specialist I 8.5 hours @ \$90.00 per hour .....	\$ 765.00
Michael B. McKinney, Engineer/Scientist/Specialist I 1.5 hours @ \$80.00 per hour .....	\$ 120.00
Technicians/Administrative .....	\$ <u>42.50</u>
<i>Subtotal, Winnetka Commons .....</i>	<i>\$ 1,833.00</i>

**Serenity on Plymouth (2014-22)**

Preliminary review of plans, coordination, and plat review set up for project.

James P. Herbert, Principal Engineer/Scientist 2.5 hours @ \$165.00 per hour.....	\$ 412.50
Technicians/Administrative .....	\$ <u>42.50</u>
<i>Subtotal, Serenity on Plymouth.....</i>	<i>\$ 455.00</i>

**Markay Ridge Streambank Stabilization (2014-23)**

Plat review set up for project.

James P. Herbert, Principal Engineer/Scientist 0.5 hours @ \$165.00 per hour.....	\$ 82.50
Technicians/Administrative .....	\$ <u>42.50</u>
<i>Subtotal, Markay Ridge Streambank Stab .....</i>	<i>\$ 125.00</i>

**Plymouth City Flats (2014-24)**

Plat review set up for project.

Technicians/Administrative .....	\$ <u>42.50</u>
<i>Subtotal, Plymouth City Flats .....</i>	<i>\$ 42.50</i>
<i>Subtotal Plat Review .....</i>	<i>\$ 4,580.50</i>

**COMMISSION AND TAC MEETINGS**

Attend September 18<sup>th</sup> Commission meeting; and attend September 22<sup>nd</sup> Plan Steering Committee meeting.

Karen L. Chandler, Consultant/Advisor  
7.5 hours @ \$155.00 per hour .....\$ 1,162.50  
*Subtotal, Commission and TAC Meetings* .....\$ 1,162.50

#### WATER QUALITY/MONITORING

Review and edit BWSR Snapshots article regarding Wirth Lake and email to administrator; follow-up on bacteria TMDL and upcoming meeting; identify algae found during September 2<sup>nd</sup> sampling on Sweeney Lake, prepare document summarizing status of algae (change to blue-green algae), and send document to administrator and Golden Valley staff.

Twin and Sweeney Lake 2014 monitoring: prepare for and perform September 2<sup>nd</sup> lake water quality sampling, including calibration and preparation of equipment, and collection of zooplankton and phytoplankton samples; review, tabulate and graph water quality sampling lab results to-date; review and enter lab reports into system; and communications with laboratory staff regarding reports.

Henry M. Runke, Principal Engineer/Scientist  
1.0 hours @ \$170.00 per hour.....\$ 170.00  
Karen L. Chandler, Consultant/Advisor  
0.9 hours @ \$155.00 per hour.....\$ 139.50  
Gregory J. Wilson, Engineer/Scientist/Specialist III  
5.6 hours @ \$145.00 per hour.....\$ 812.00  
Margaret R. Rattei, Engineer/Scientist/Specialist II  
8.1 hours @ \$120.00 per hour.....\$ 972.00  
Technicians/Administrative .....\$ 812.50  
Expenses (Pace Analytical Services/filtration apparatus/canoe/WQ  
meter/mileage/2WD field vehicle) .....\$ 1,495.74  
*Subtotal, Water Quality/Monitoring*.....\$ 4,401.74

#### WATER QUANTITY

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

Technicians/Administrative .....\$ 360.00  
Expenses (Mileage/2WD vehicle).....\$ 54.12  
*Subtotal, Water Quantity* .....\$ 414.12

**TOTAL ENGINEERING .....\$ 15,814.52**

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

Expenses (postage) .....\$ 39.18

**TOTAL SECRETARIAL SERVICES EXPENSES.....\$ 39.18**

<b>PLANNING</b>
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**NEXT GENERATION PLAN**

Review and edit draft minutes from August 11 Commission workshop and the August 25 PSC meeting; continue work on Land and Water Resource Inventory section of the draft plan, including adding to lake information, creating figures, and looking into developing parks layer; develop draft water quality and water quantity monitoring plan; continue to develop Implementation section of the draft plan, including implementation tables; meet with administrator to discuss agenda and packet items for the October Commission workshop and revised implementation section tables; distribute September 22 PSC meeting packet; and attend September 22 PSC meeting.

Karen L. Chandler, Consultant/Advisor	
18.1 hours @ \$155.00 per hour.....	\$ 2,805.50
Margaret R. Rattei, Engineer/Scientist/Specialist II	
0.5 hours @ \$120.00 per hour.....	\$ 60.00
Sterling G. Williams, Engineer/Scientist/Specialist II	
61.6 hours @ \$115.00 per hour.....	\$ 7,084.00
Joshua R. Vosejпка, Engineer/Scientist/Specialist I	
11.8 hours @ \$70.00 per hour.....	\$ 826.00
Katelyn J. Nagel, Engineer/Scientist/Specialist I	
1.5 hours @ \$65.00 per hour .....	\$ 97.50
Technicians/Administrative .....	\$ 42.50
Expenses (postage) .....	\$ 4.48
<i>Subtotal, Next Generation Plan .....</i>	<i>\$ 10,919.98</i>

**TOTAL PLANNING (Next Generation Plan) .....\$ 10,919.98**

<b>PLANNING (Funded through Flood Control Project Long-term Maintenance Funds)</b>
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**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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<b>TOTAL WEBSITE .....</b>	<b>\$</b>	<b>0.00</b>
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<b>WATERSHED OUTLET MONITORING PROGRAM (WOMP)</b>
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<b>TOTAL WOMP .....</b>	<b>\$</b>	<b>0.00</b>
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<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)**

Review MPRB consultant's HEC-RAS model results for Bassett Creek through Wirth Park, including option for lowering trail and option for deleting Fruen Mill section from the plans; internal meetings to discuss updated model and floodplain impacts; review 100% construction plans and send email to MPRB consultant and MPRB staff regarding review comments on 100% plans; communications with MPRB and Corps of Engineers staff regarding status of Corps of Engineers permit; communications with MPRB consultant regarding project status and floodplain impacts; and email signed extension to BWSR grant agreement to administrator.

Leonard J. Kremer, Principal Engineer/Scientist		
2.0 hours @ \$180.00 per hour .....	\$	360.00
James P. Herbert, Principal Engineer/Scientist		
1.3 hours @ \$165.00 per hour .....	\$	214.50
Karen L. Chandler, Consultant/Advisor		
4.4 hours @ \$155.00 per hour .....	\$	682.00
Jeffrey D. Weiss, Engineer/Scientist/Specialist II		
4.0 hours @ \$115.00 per hour .....	\$	<u>460.00</u>
<i>Subtotal, Cedar Lk Rd to Golden Valley Rd, 2012 Main Stem .....</i>	<i>\$</i>	<i>1,716.50</i>

**TWIN LAKE ALUM TREATMENT PROJECT (TW-2)**

Prepare draft/final memos for September Commission meeting regarding proceeding with in-lake alum treatment; email draft and final memos to administrator for review; and update data analysis, based on recent 2014 Twin Lake water quality monitoring.

Karen L. Chandler, Consultant/Advisor		
1.9 hours @ \$155.00 per hour .....	\$	294.50
Gregory J. Wilson, Engineer/Scientist/Specialist III		
12.3 hours @ \$145.00 per hour .....	\$	1,783.50
Keith M. Pilgrim, Engineer/Scientist/Specialist III		
1.0 hours @ \$145.00 per hour .....	\$	<u>145.00</u>
<i>Subtotal, Twin Lake Alum Treatment Project .....</i>	<i>\$</i>	<i>2,223.00</i>

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

Review 90% design plans and P8 modeling; communications with city's consultant regarding plan review; prepare memo for September Commission meeting regarding review of 90% construction plans and P8 model; email memo to administrator; and prepare and send 90% conditional approval letter to city.

James P. Herbert, Principal Engineer/Scientist	
0.5 hours @ \$165.00 per hour.....	\$ 82.50
Karen L. Chandler, Consultant/Advisor	
5.2 hours @ \$155.00 per hour.....	\$ 806.00
Jennifer A. Koehler, Engineer/Scientist/Specialist II	
2.8 hours @ \$115.00 per hour .....	\$ 322.00
Candice M. Kantor, Engineer/Scientist/Specialist I	
2.5 hours @ \$90.00 per hour .....	\$ 225.00
<i>Subtotal, Briarwood-Dawnview Pond .....</i>	<i>\$ 1,435.50</i>

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

Prepare memo for September Commission meeting regarding recommended levy certification for project; and communications with Golden Valley staff, Commission counsel, and administrator.

Karen L. Chandler, Consultant/Advisor	
3.8 hours @ \$155.00 per hour.....	\$ 589.00
<i>Subtotal, Main Stem: 10<sup>th</sup> Ave – Duluth Street .....</i>	<i>\$ 589.00</i>

#### HONEYWELL POND EXPANSION (2016) (BC-4)

Review draft feasibility study; prepare memo for September Commission meeting regarding draft feasibility study and review comments; communications with Golden Valley city staff regarding project funding and summary table; communications with city's consultant regarding comments; review revised section of feasibility study; forward revised feasibility study to administrator; prepare for and attend meeting with Golden Valley staff and city consultant regarding BCWMC comments, revised alternatives and schedule; and communications with administrator.

James P. Herbert, Principal Engineer/Scientist	
0.8 hours @ \$165.00 per hour.....	\$ 132.00
Karen L. Chandler, Consultant/Advisor	
12.2 hours @ \$155.00 per hour.....	\$ 1,891.00
Jennifer A. Koehler, Engineer/Scientist/Specialist II	
18.7 hours @ \$115.00 per hour .....	\$ 2,150.50
<i>Subtotal, Honeywell Pond Expansion .....</i>	<i>\$ 4,173.50</i>

#### NORTHWOOD LAKE IMPROVEMENT PROJECTS (2016)(NL-1)

Review draft feasibility study; communications with New Hope's consultant; prepare memo for September Commission meeting regarding draft feasibility study and review comments; communications with administrator and recorder regarding September Commission action/guidance



to city; prepare letter regarding feasibility study review comments and email to New Hope staff and city's consultant; and communications with administrator regarding review schedule for revised feasibility study.

James P. Herbert, Principal Engineer/Scientist	
1.1 hours @ \$165.00 per hour .....	\$ 181.50
Karen L. Chandler, Consultant/Advisor	
7.3 hours @ \$155.00 per hour .....	\$ 1,131.50
Jennifer A. Koehler, Engineer/Scientist/Specialist II	
9.6 hours @ \$115.00 per hour .....	\$ <u>1,104.00</u>
<i>Subtotal, Northwood Lake Improvement Projects.....</i>	<i>\$ 2,417.00</i>

**TOTAL CAPITAL IMPROVEMENTS PROJECTS (Tax Levy) .....\$ 12,554.50**

<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**

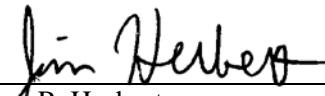
P8 Model Update: communications with Minneapolis staff regarding needed additions/revisions to P8 model.

Gregory J. Wilson, Engineer/Scientist/Specialist III	
1.0 hours @ \$145.00 per hour .....	\$ <u>145.00</u>
<i>Subtotal, TMDL Studies.....</i>	<i>\$ 145.00</i>
<b>TOTAL TMDL STUDIES .....</b>	<b>\$ 145.00</b>

<b>SUMMARY TOTALS</b>
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<b>Total Engineering .....</b>	<b>\$ 15,814.52</b>
<b>Total Secretarial Services Expenses.....</b>	<b>\$ 39.18</b>
<b>Total Planning (Next Generation Plan) .....</b>	<b>\$ 10,919.98</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>\$ 0.00</b>
<b>Total Capital Improvement Projects (Tax Levy) .....</b>	<b>\$ 12,554.50</b>
<b>Total Capital Improvement Projects (Maintenance Funds).....</b>	<b>\$ 0.00</b>
<b>Total TMDL Studies.....</b>	<b>\$ 145.00</b>
<b>TOTAL PAYABLE .....</b>	<b>\$ 39,473.18</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