

# **Black Dog Watershed Management Commission**

## **Agenda**

**Wednesday, February 19, 2020**

**5:00 P.M.**

**BURNSVILLE MAINTENANCE FACILITY – Conference Room  
13713 Frontier Court, Burnsville MN 55337**

### **COMMISSIONERS:**

Roger Baldwin (Chair)  
Greg Helms (Vice Chair)  
Scott Thureen (Secretary/Treasurer)  
Tom Harmening  
Mike Hughes

Curt Enestvedt (Alternate)  
Rollie Greeno (Alternate)

- I. Approval of Agenda
- II. Approval of Minutes – January 15, 2020
- III. Approval of Accounts Payables
- IV. Review Budget Performance Reports
- V. Approve Engineering Services for Two Years
- VI. Approve Legal Services for Two Years
- VII. Approve Lakes to Enroll in 2020 Met Council Citizen Assisted Monitoring Program (CAMP)
- VIII. Miscellaneous
- IX. Adjournment

The City of Burnsville and Black Dog Watershed Management Organization do not discriminate on the basis of race, color, national origin, sex, religion, age, or disability in the admission or access to, or treatment or employment in, its programs, activities, or services.

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# Black Dog Watershed Management Commission

## Agenda Background

February 19, 2020

I. Approval of Agenda

Agenda enclosed.

**Action Requested:** A motion be considered to approve the Agenda.

II. Approval of Minutes from the January 15, 2020 Meeting

Minutes enclosed.

**Action Requested:** A motion be considered to approve the Minutes of the January 15, 2020 meeting.

III. Approval of Accounts Payable

Accounts payable list enclosed.

**Action Requested:** A motion be considered to approve the accounts payable list as submitted by staff.

IV. Review of Budget Performance Reports

Current Budget Performance Reports enclosed.

**Action Requested:** No formal action required.

V. Approve Engineering Services for Two Years

The Black Dog WMO JPA requires that the Commission solicit for engineering services for every two years. A notice was placed in the newspaper for engineering services and one letter of interest was received from Barr Engineering. The letter of interest is included in the packet.

**Action requested:** Consider a motion approving Barr Engineering to provide engineering serves for 2020 and 2021.

VI. Approve Legal Services for Two Years

The Black Dog WMO JPA requires that the Commission solicit for engineering services for every two years. A notice was placed in the newspaper for legal services and one letter of interest was received from Campbell Knutson. The letter of interest is included in the packet.

**Action Requested:** Consider a motion approving Campbell Knutson to provide legal services for 2020 and 2021.

VII. Approval of Lakes to Enroll in the 2019 Met Council Citizen Assisted Monitoring Program

Staff proposes that the BDWMO sponsor monitoring at the five strategic water bodies identified in the Watershed Plan. This approach is consistent with what has occurred in past years, as well as, the 2020 Annual Work Plan and Budget. Staff recommends the Commission approve enrolling Crystal Lake, Keller Lake, Kingsley Lake, Orchard Lake, and Lac Lavon in the 2020 CAMP.

**Action Requested:** The Commission considers a motion approving enrollment of Crystal Lake, Keller Lake, Kingsley Lake, Orchard Lake, and Lac Lavon in the 2020 CAMP.

VIII. Miscellaneous

# Black Dog Watershed Management Commission

**DRAFT**

## Meeting Minutes January 15, 2020

### **MEMBERS PRESENT**

Roger Baldwin, Chairman  
Greg Helms, Vice-Chairman  
Scott Thureen, Secretary/Treasurer  
Mike Hughes  
Curt Enestvedt, Alternate  
Rollie Greeno, Alternate

### **MEMBERS ABSENT**

Tom Harmening

### **OTHERS PRESENT**

Karen Chandler – Barr Engineering  
Roger Knutson – Campbell Knutson  
Jessica Schaum – City of Apple Valley  
Samantha Berger – City of Apple Valley  
Curt Courdron – Dakota County Soil and Water Conservation District  
Melissa King – BWSR  
Daryl Jacobson – BDWMO Administrator  
Tammi Carté – BDWMO Secretary

Roger Baldwin, Chairman, called the January 15, 2020, meeting to order at 5:00pm at the Burnsville Maintenance Facility.

#### I. Approval of Agenda

**Motion by** Hughes, second by Helms, to approve the January 15, 2020 Agenda as presented.

Ayes – Baldwin, Helms, Hughes, Thureen  
Nays – None

**Motion Carried Unanimously**

#### II. Approval of Minutes from the November 20, 2019 Meeting

**Motion by** Thureen, second by Hughes, to approve the November 20, 2019 Minutes with the correction to section V. Miscellaneous, Item 1.

Ayes – Baldwin, Helms, Hughes, Thureen  
Nays – None

**Motion Carried Unanimously**

III. Approval of Accounts Payable

**Motion by** Helms, second by Hughes, to approve payments to Barr Engineering in the amount of \$2,283.50 for services from November 2, 2019 through December 27, 2019; and, to Campbell Knutson in the amount of \$224.00 for November 2019 general services; and, to the City of Burnsville in the amount of \$19,296.23 for 2019 support services.

Ayes – Baldwin, Helms, Hughes, Thureen

Nays – None

**Motion Carried Unanimously**

IV. Review Budget Performance Reports

Daryl Jacobson, BDWMO Administrator, reports that we are wrapping up the 2019 accounts payable.

**No Formal Action Required**

V. Approve Official Depositories for Commission Funds

The auditors recommend that the Commission designate official depositories for our funds on an annual basis. Current depositories are the US Bank in St. Paul and the League of MN Cities 4M Fund. These depositories have served the commission well and staff recommends continuing on with them.

**Motion by** Hughes, second by Thureen, to approve the US Bank in St. Paul and the League of MN Cities 4M Fund as the official depositories of the BDWMO.

Ayes – Baldwin, Helms, Hughes, Thureen

Nays – None

**Motion Carried Unanimously**

VI. Approve Official Newspaper for the Black Dog WMO

The JPA requires that the Commission designate an official newspaper. In 2019 the BDWMO used the Sun Thisweek as the official newspaper. The BDWMO has historically adopted the same official newspaper as the City of Burnsville since that community represents a majority of the land area within the WMO. Staff recommends the BDWMO continues with the Sun Thisweek as the official newspaper. BDWMO items typically published in the official newspaper are public notices.

**Motion by** Helms, second by Hughes, to approve the Burnsville Sun Thisweek as the official BDWMO newspaper in 2020.

Ayes – Baldwin, Helms, Hughes, Thureen

Nays – None

**Motion Carried Unanimously**

VII. Approve Proposal for the 2019 Audit

The Black Dog WMO is required to do a financial audit every five years. The next audit is due for 2019. MMKR has submitted a proposal to complete the work. MMKR will also be doing the City of Burnsville audit for 2019.

Daryl Jacobson reviewed the proposal with the Commission. MMKR has performed past Black Dog WMO Audits.

**Motion by** Hughes, second by Thureen, to approve MMKR to perform a Black Dog WMO audit for the year 2019.

Ayes – Baldwin, Helms, Hughes, Thureen

Nays – None

**Motion Carried Unanimously**

VIII. Approve 2020 Joint Powers Agreement with Dakota County SWCD

The Joint Powers Agreement with the SWCD was reviewed by the Black Dog WMO attorney prior to tonight's meeting. The 2020 SWCD work plan and budget were previously approved by the commission.

**Motion by** Thureen, second by Hughes, to approve the Joint Powers Agreement with Dakota County SWCD for 2020.

Ayes – Baldwin, Helms, Hughes, Thureen

Nays – None

**Motion Carried Unanimously**

IX. Approve Soliciting Engineering and Legal Services

Every two years the BDWMO is required to solicit for engineering and legal services. Staff will discuss how the commission would like to solicit for these services that will cover the years 2020 and 2021. The process is to post a public notice that Black Dog WMO is looking for these services.

**Motion by** Helms, second by Hughes, to approve the process of soliciting engineering and legal services for 2020 and 2021.

Ayes – Baldwin, Helms, Hughes, Thureen

Nays – None

**Motion Carried Unanimously**

X. Election of Officers for 2020

The Black Dog WMO Joint Powers Agreement requires that officers be elected each year for the positions of Chair, Vice Chair and Secretary/Treasurer. Currently the officers are:

Chair – Roger Baldwin

Vice Chair – Greg Helms

Secretary/Treasurer – Scott Thureen

Commissioners present were Roger Baldwin, Greg Helms, Scott Thureen, and Mike Hughes.

**Motion by** Hughes, second by Helms, to nominate all incumbent officers for another term.

Ayes – Baldwin, Helms, Hughes, Thureen

Nays – None

**Motion Carried Unanimously**

XI. Miscellaneous

1. Karen Chandler, Barr Engineering, asked the Commission for recommendations of items to include in the annual report. Suggestions were, celebrate successes of the rain garden projects, landscaping for clean water, update on the Keller Lake alum treatment project, and an update on Laclavon.
2. Commissioner Hughes represents the Black Dog WMO for the Burnsville Sustainability Planning Committee. If the Commission has topics for him to bring to the Committee, please get them in before the January 22, 2020 meeting.
3. Curt Courdron – Dakota County Soil and Water Conservation District – brought a summary of all 2019 clean water rain garden plans for the committee to review.
4. Melissa King – BWSR – The Watershed Based Implementation Funding Program is a non-competitive process. Submissions are due by March 2021. The program is statewide now for projects that accelerate clean water activities. Grant program policies and Twin Cities Metro allocation area maps were distributed at the meeting. Projects primary focus must be water quality improvement. The amount to be split between the entire metro area is \$6,000,000. Convene meetings will be different for each area and could take place February or March of 2020.

**Motion by** Hughes, second by Thureen, to appoint Daryl Jacobson to represent the Black Dog WMO at the Watershed Based Implementation Funding Program convene meeting.

Ayes – Baldwin, Helms, Hughes, Thureen

Nays – None

**Motion Carried Unanimously**

5. The next Black Dog WMO meeting is scheduled for February 19, 2020.

XII. Adjournment

**Motion by** Hughes, second by Thureen, to adjourn at 5:56pm.

Ayes – Baldwin, Helms, Hughes, Thureen

Nays – None

**Motion Carried Unanimously**

**BLACK DOG WATERSHED MANAGEMENT COMMISSION**  
**100 Civic Center Parkway**  
**Burnsville, MN 55337**

**Accounts Payable - February 19, 2020 Meeting**

**Barr Engineering** - Services from December 28, 2019 through January 31, 2020

Engineering	\$	1,605.38
Special Projects General Fund - Lac Lavon Mgmt Level Monitoring	\$	449.50
Water Quality Monitoring - 2019 Habitat Monitoring (Lac Lavon)	\$	4,819.50
Public Education - Watershed Annual Report	\$	1,138.00
		<hr/>
	\$	8,012.38

**Campbell Knutson**

January 2020 - General Services	\$	666.40
		<hr/>
	\$	666.40

**Dakota County Soil & Water Conservation District** - Services for April - June 2019

Website Updates & Maintenance	\$	240.00
Website Hosting Fees	\$	75.00
Landscaping for Clean Water Grants- x2 Thornton, Glass	\$	500.00
Landscaping for Clean Water Grants Technical Assistance x2 Thornton, Glass	\$	1,000.00
		<hr/>
	\$	1,815.00

**Accounts Payable Total \$ 10,493.78**

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resourceful. naturally.  
engineering and environmental consultants



February 10, 2020

Black Dog Watershed Management Commission  
City of Burnsville  
13713 Frontier Court  
Burnsville, MN 55337-4720

Attn: Mr. Daryl Jacobson

**RE: Engineering & Environmental Consulting Services**

**Invoice of Account with  
BARR ENGINEERING COMPANY**

For professional services during the period of December 28, 2019 through January 31, 2020

<b>TOTAL PAYABLE THIS INVOICE:</b>	<b>\$ 8,012.38</b>
<b>Allocation:</b>	
<b>Engineering</b>	<b>\$ 1,605.38</b>
<b>Special Projects General Fund</b>	
• Lac Lavon Mgmt Level Monitoring	<b>\$ 449.50</b>
<b>Water Quality Monitoring</b>	
• 2019 Habitat Monitoring (Lac Lavon)	<b>\$ 4,819.50</b>
<b>Public Education</b>	
• Watershed Annual Report	<b>\$ 1,138.00</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.

OK  
A handwritten signature in dark ink, appearing to be "Daryl Jacobson".  
2-10-20

A handwritten signature in dark ink, appearing to be "Karen L. Chandler".

Karen L. Chandler  
Vice President

BUDGET SUMMARY - 2020 FY  
Black Dog Watershed Management Commission  
through January 31, 2020

Work Description	Pre-2020 Costs	Barr Budget				Spent This Year	Balance
		Brought Forward	Current Year	Total Barr Budget	Current Invoice		
Engineering	-----	0.00	31,000.00	31,000.00	1,605.38	1,605.38	29,394.62
Special Projects: General Fund							
Orchard Lk Water Quality Monitoring (2020)	-----	0.00	23,000.00	23,000.00	0.00	0.00	23,000.00
Lac Lavon Mgmt Level Monitoring (2019)	17,449.62	8,250.38	0.00	8,250.38	449.50	449.50	7,800.88
Subtotal -- Special Projects: General Fund	-----	8,250.38	23,000.00	31,250.38	449.50	449.50	30,800.88
Special Projects: Capital Improvement Fund							
Keller Lake Alum Treatment Feas Study & Impl Planning			7,000.00	7,000.00	0.00	0.00	7,000.00
Subtotal -- Special Projects: Capital Improvement Fund	-----	0.00	7,000.00	7,000.00	0.00	0.00	7,000.00
Special Projects: General Fund Reserve							
Watershed Management Plan Update			10,000.00	10,000.00	0.00	0.00	10,000.00
Subtotal -- Special Projects: General Fund Reserve	-----	0.00	10,000.00	10,000.00	0.00	0.00	10,000.00
Water Quality Monitoring							
2020 Habitat Monitoring (Keller Lake)	-----	0.00	9,600.00	9,600.00	0.00	0.00	9,600.00
2019 Habitat Monitoring (Lac Lavon)	2,023.40	6,476.60	0.00	6,476.60	4,819.50	4,819.50	1,657.10
Update Trend Analyses	-----	0.00	2,000.00	2,000.00	0.00	0.00	2,000.00
Subtotal -- W.Q. Monitoring	-----	6,476.60	11,600.00	18,076.60	4,819.50	4,819.50	13,257.10
Public Education							
Watershed Annual Report	-----	0.00	4,000.00	4,000.00	1,138.00	1,138.00	2,862.00
Annual Activity Report	-----	0.00	2,000.00	2,000.00	0.00	0.00	2,000.00
Subtotal -- Public Education	-----	0.00	6,000.00	6,000.00	1,138.00	1,138.00	4,862.00
Total Services	-----	14,726.98	88,600.00	103,326.98	8,012.38	8,012.38	95,314.60



# INVOICE

**Barr Engineering Co.**  
**4300 MarketPointe Drive, Suite 200**  
**Minneapolis, MN 55435**  
**Phone: 952-832-2600; Fax: 952-832-2601**  
**FEIN #: 41-0905995 Inc: 1966**

Mr. Daryl Jacobson  
Black Dog WMO  
City of Burnsville  
13713 Frontier Court  
Burnsville, MN 55337-4720

February 10, 2020  
Invoice No: 23190374.20 - 1

<b>Total this Invoice</b>	<b>\$2,743.38</b>
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**Regarding: BDWMO 2020 Engineering Services**

**Professional Services from December 28, 2019 to January 31, 2020**

Job:	2020	2020 Engineering Services
Task:	001	Attend BDWMO Meetings

**Labor Charges**

	Hours	Rate	Amount	
Principal				
Chandler, Karen	3.30	180.00	594.00	
	3.30		594.00	
<b>Subtotal Labor</b>				<b>594.00</b>

**Expense Charges**

Travel				
1/15/2020	Chandler, Karen	Mileage	14.38	
<b>Subtotal Expenses</b>				<b>14.38</b>

**Task Subtotal \$608.38**

Task:	002	Miscellaneous Consulting
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**Labor Charges**

	Hours	Rate	Amount	
Principal				
Chandler, Karen	3.90	180.00	702.00	
Support Personnel II				
Nypan, Nyssa	2.80	95.00	266.00	
Support Personnel I				
Anderson, Nicolle	.20	70.00	14.00	
Rasmussen, Kayla	.20	75.00	15.00	
	7.10		997.00	
<b>Subtotal Labor</b>				<b>997.00</b>

**Task Subtotal \$997.00**

Task:	004	Newsletter/Watershed Report
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PLEASE REMIT TO ABOVE ADDRESS and INCLUDE INVOICE NUMBER ON CHECK.

Terms: Due upon receipt. 1 1/2% per month after 30 days. Please refer to the contract if other terms apply.

# **Labor Charges**

	Hours	Rate	Amount	
Principal				
Chandler, Karen	3.30	180.00	594.00	
Engineer / Scientist / Specialist IV				
Wilson, Gregory	1.00	170.00	170.00	
Support Personnel I				
Kaul (Contracted), Karen	4.40	85.00	374.00	
	8.70		1,138.00	
<b>Subtotal Labor</b>				<b>1,138.00</b>
		<b>Task Subtotal</b>		<b>\$1,138.00</b>
		<b>Job Subtotal</b>		<b>\$2,743.38</b>
		<b>Total this Invoice</b>		<b>\$2,743.38</b>

	Current	Prior	Total	Received	A/R Balance
<b>Invoiced to Date</b>	<b>2,743.38</b>	<b>0.00</b>	<b>2,743.38</b>	<b>0.00</b>	<b>2,743.38</b>

Thank you in advance for the prompt processing of this invoice. If you have any questions, please contact Karen Chandler, your Barr project manager, at (952) 832-2813 or email at [kchandler@barr.com](mailto:kchandler@barr.com).



# INVOICE

Barr Engineering Co.  
4300 MarketPointe Drive, Suite 200  
Minneapolis, MN 55435  
Phone: 952-832-2600; Fax: 952-832-2601  
FEIN #: 41-0905995 Inc: 1966

Mr. Daryl Jacobson  
Black Dog WMO  
City of Burnsville  
13713 Frontier Court  
Burnsville, MN 55337-4720

February 10, 2020  
Invoice No: 23190375.19 - 6

<b>Total this Invoice</b>	<b>\$449.50</b>
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**Regarding: Lac Lavon 2019 Water Quality Monitoring**

**Professional Services from December 28, 2019 to January 31, 2020**

Job:	LAC	Lac Lavon 2019 Monitoring
Task:	100	Monitoring, Data Mgmt and Proj Mgmt

**Labor Charges**

	Hours	Rate	Amount	
Technician I				
Hankard, Madeline	3.30	80.00	264.00	
Melmer, David	.40	90.00	36.00	
Support Personnel II				
Treanor, Margaret	1.30	115.00	149.50	
	5.00		449.50	
<b>Subtotal Labor</b>				<b>449.50</b>
		<b>Task Subtotal</b>		<b>\$449.50</b>
		<b>Job Subtotal</b>		<b>\$449.50</b>
		<b>Total this Invoice</b>		<b>\$449.50</b>

	Current	Prior	Total	Received	A/R Balance
<b>Invoiced to Date</b>	<b>449.50</b>	<b>17,449.62</b>	<b>17,899.12</b>	<b>17,449.62</b>	<b>449.50</b>

Thank you in advance for the prompt processing of this invoice. If you have any questions, please contact Kevin Menken, your Barr project manager, at (952) 832-2794 or email at [kmenken@barr.com](mailto:kmenken@barr.com).



# INVOICE

Barr Engineering Co.  
4300 MarketPointe Drive, Suite 200  
Minneapolis, MN 55435  
Phone: 952-832-2600; Fax: 952-832-2601  
FEIN #: 41-0905995 Inc: 1966

Mr. Daryl Jacobson  
Black Dog WMO  
City of Burnsville  
13713 Frontier Court  
Burnsville, MN 55337-4720

February 10, 2020  
Invoice No: 23190457.19 - 3

<b>Total this Invoice</b>	<b>\$4,819.50</b>
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**Regarding: BDWMO 2019 Lac Lavon Habitat Monitoring**

**Professional Services from December 28, 2019 to January 31, 2020**

Job:	LAC	Lac Lavon Habitat Monitoring
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Task:	003	Analysis and Report
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**Labor Charges**

	Hours	Rate	Amount	
Principal				
Chandler, Karen	1.50	180.00	270.00	
Engineer / Scientist / Specialist III				
Wold, Karen	33.70	135.00	4,549.50	
	35.20		4,819.50	
<b>Subtotal Labor</b>				<b>4,819.50</b>
		<b>Task Subtotal</b>		<b>\$4,819.50</b>
		<b>Job Subtotal</b>		<b>\$4,819.50</b>
		<b>Total this Invoice</b>		<b>\$4,819.50</b>

	Current	Prior	Total	Received	A/R Balance
<b>Invoiced to Date</b>	<b>4,819.50</b>	<b>2,023.40</b>	<b>6,842.90</b>	<b>2,023.40</b>	<b>4,819.50</b>

Thank you in advance for the prompt processing of this invoice. If you have any questions, please contact Karen Wold, your Barr project manager, at (952) 832-2707 or email at [kwold@barr.com](mailto:kwold@barr.com).

PLEASE REMIT TO ABOVE ADDRESS and INCLUDE INVOICE NUMBER ON CHECK.

Terms: Due upon receipt. 1 1/2% per month after 30 days. Please refer to the contract if other terms apply.

**CAMPBELL KNUTSON**  
**Professional Association**  
**Attorneys at Law**  
**Federal Tax I.D. #41-1562130**  
**Grand Oak Office Center I**  
**860 Blue Gentian Road, Suite 290**  
**Eagan, Minnesota 55121**  
**(651) 452-5000**

Black Dog Watershed Management Organization  
Attention: Daryl Jacobson  
City of Burnsville  
100 Civic Center Parkway  
Burnsville MN 55337-3817

Page: 1  
January 31, 2020  
Account # 602-0000G  
348

RE: GENERAL SERVICES  
RENDERED TO DATE:

		HOURS	
01/09/2020	RNK Review Board agenda material.	0.30	48.00
01/14/2020	RNK Review Board agenda material.	0.40	64.00
01/15/2020	RNK Attend Board meeting.	2.20	352.00
01/22/2020	RNK Draft RFP notice; email to Daryl Jacobson.	0.40	64.00
	SLC Review system for Ad to solicit proposals; email Ad and Affidavit of Publication from 2017 to RNK.	0.20	16.40
01/23/2020	RNK Emails from and to Daryl Jacobson.	0.40	64.00
	SLC Review Ad; telephone call to Sun Thisweek newspaper; email Ad for publication; review proof of Ad from Sun Thisweek and approve.	0.50	41.00
	AMOUNT DUE	4.40	649.40
01/31/2020	ECM Publishers, Inc. - cost for publication of Public Notice for letters of interest.		17.00
	TOTAL DISBURSEMENTS		17.00
	TOTAL CURRENT WORK		666.40
	PREVIOUS BALANCE		\$224.00
01/21/2020	Payment - thank you		-224.00
	TOTAL AMOUNT DUE		<u>\$666.40</u>

Amounts due over 30 days will be subject to a finance charge of .5% per month (or an annual rate of 6%). Minimum charge - 50 cents.

 2/17/20



## Invoice

Dakota County Soil & Water  
Conservation District

4100 220th Street W., Suite 102

Farmington, MN 55024

DATE	INVOICE #
1/10/2020	2957

BILL TO

Black Dog WMO  
Daryl Jacobson, Administrator  
13713 Frontier Court  
Burnsville, MN 55337

Reference

TERMS

ITEM CODE	DESCRIPTION	HOURS	RATE	AMOUNT
	October - December 2019			
Black Dog	Website Updates and Maintenance	3	80.00	240.00
Black Dog	Website Hosting Fees (Per Quarter)		75.00	75.00
Black Dog	Landscaping for Clean Water Grants Thornton, Glass	2	250.00	500.00
Black Dog	Landscaping for Clean Water Grants Technical Assistance Thornton, Glass	2	500.00	1,000.00
<p style="text-align: center;">OK Daryl Jacobson 1-14-20</p>				

Thank you.

**Total**      **\$1,815.00**



## THORNTON

# RESIDENTIAL NATIVE GARDEN

DAKOTA COUNTY



SOIL & WATER  
CONSERVATION DISTRICT



BEFORE

A native garden, also called natural landscaping, uses plants, trees and grasses that are suitable for growth in a particular geographical area



AFTER

**PROJECT:** Installation of a 165 sq. ft. residential native garden.

**COST:** Project materials cost estimated at \$475

**FUNDING:** Landowners receive a \$250 Landscaping for Clean Water grant as well as technical assistance provided by the Dakota County Soil and Water Conservation District

**Black Dog**  
Watershed Management Organization

**LOCATION:**

2316 Explorer Ct  
Burnsville



**PRACTICE:**

- Native Garden

**BENEFITS:**

- Runoff volume reduction
- Slope stabilization
- Improved wildlife habitat
- Opportunity for public education and outreach
- Improved aesthetics

**PARTNERS:**

- Black Dog Watershed Management Organization

**WATERSHED:**

- Black Dog

**INSTALLATION:**

- Summer 2019



# GLASS

## RESIDENTIAL RAINGARDEN



BEFORE

A rain garden is a shallow depression that captures rainwater, removes pollutants, and soaks the water into the ground.



AFTER

### PRACTICE:

- Raingarden

### BENEFITS:

- Runoff volume reduction
- Improved water quality
- Improved wildlife habitat
- Opportunity for public education and outreach
- Improved aesthetics

### PARTNERS:

- Black Dog Watershed Management Organization

### WATERSHED:

- Black Dog

### INSTALLATION:

- Summer 2019

**PROJECT:** Installation of a 200 square foot residential raingarden.

**COST:** Project materials cost estimated at \$615

**FUNDING:** Landowners receive a \$250 Landscaping for Clean Water grant as well as technical assistance provided by the Dakota County Soil and Water Conservation District

**Black Dog**  
Watershed Management Organization

**LOCATION:**  
2008 Big Oak Dr  
Burnsville



# BLACK DOG WATER MANAGEMENT COMMISSION

## Budget Performance Report January 31, 2020

	CURRENT MONTH	YEAR TO DATE			
	ACTUAL	GENERAL FUND BUDGET	CAPITAL IMPROVEMENT FUND BUDGET	ACTUAL	VARIANCE FAVORABLE (UNFAVORABLE)
<b>Opening Fund Balance</b>		\$ 415,753	\$ 100,849	\$ 516,602	
<b>REVENUES :</b>					
<b>Member Contributions:</b>					
City of Apple Valley	\$ -	\$ 10,376	\$ 1,734	\$ -	\$ (12,110)
City of Burnsville	-	94,293	16,256	-	(110,549)
City of Eagan	-	568	-	-	(568)
City of Lakeville	-	25,763	4,010	-	(29,773)
Total Member Contributions	-	131,000	22,000	-	(153,000)
<b>Other Revenues:</b>					
Interest	\$ -	\$ 40	\$ -	\$ -	\$ (40)
Grant (State of MN BWSR)	-	-	-	-	-
Total Other Revenue	-	40	-	-	(40)
<b>Total Revenues</b>	<b>\$ -</b>	<b>\$ 131,040</b>	<b>\$ 22,000</b>	<b>\$ -</b>	<b>\$ (153,040)</b>
<b>EXPENDITURES :</b>					
General Engineering Support	\$ -	\$ 31,000	\$ -	\$ -	\$ 31,000
Special Projects - General Fund	-	46,500	-	-	46,500
Special Projects - Capital Improvement Fund	-	-	-	-	-
Insurance	-	3,000	-	-	3,000
Legal and Audit	-	8,400	-	-	8,400
Administrative Support	-	18,000	-	-	18,000
Public Education	-	17,900	-	-	17,900
Water Quality Monitoring	-	15,400	-	-	15,400
Conference/Publications	-	500	-	-	500
Contingency	-	5,000	-	-	5,000
<b>Total Expenditures</b>	<b>-</b>	<b>145,700</b>	<b>-</b>	<b>-</b>	<b>145,700</b>
<b>TRANSFERS :</b>					
Transfers In	\$ -	\$ -	\$ -	\$ -	\$ -
Transfers Out	-	-	-	-	-
<b>Total Transfers</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>EXCESS OF REVENUES OVER (UNDER) EXPENDITURES</b>	<b>-</b>	<b>(14,660)</b>	<b>22,000</b>	<b>-</b>	
<b>EXCESS OF REVENUES OVER (UNDER) EXPENDITURES PLUS OPENING FUND BALANCE</b>				<b>516,602</b>	
<b>TOTAL CASH AVAILABLE 1/31/2020</b>	<b>516,602</b>				
<b>Fund Balance 1/31/2020</b>	<b>\$ 516,602</b>				

BLACK DOG WMO  
CASH ACTIVITY REPORT 2020

			Expenditures:												
Date	Description	Deposits	Check #	Check Amount	Monthly Cash Balance	General Engineering Support	Special Projects (General)	Special Projects (Capital)	Insurance	Legal & Audit	Admin Support	Public Education	Water Quality Monitoring	Conf Public	Contingency
Balance as of 12/31/19					538,405.58										
15-Jan	Barr Engineering Co (2019)		1713	2,283.50		1,875.00	408.50	-					-		
15-Jan	Campbell Knutson (2019)		1714	224.00						224.00					
15-Jan	City of Burnsville (2019)		1715	19,296.23							19,296.23				
31-Jan	Interest Income	625.10													
01/31/20 Balance		625.10		21,803.73	517,226.95	1,875.00	408.50	-	-	224.00	19,296.23	-	-	-	-
Total Revenue		625.10	Total Expense		21,803.73	1,875.00	408.50	-	-	224.00	19,296.23	-	-	-	-
Less: 2019 A/R		-	Less: 2019 A/P		(21,803.73)	(1,875.00)	(408.50)	-	-	(224.00)	(19,296.23)	-	-	-	-
December LMC insurance reclass		-			-										
Total YTD 2020 Revenue		625.10	Total YTD 2020 Exp		-	-	-	-	-	-	-	-	-	-	-
2020 Budget				145,700.00		31,000.00	46,500.00	-	3,000.00	8,400.00	18,000.00	17,900.00	15,400.00	500.00	5,000.00
Budget Remaining				145,700.00		31,000.00	46,500.00	-	3,000.00	8,400.00	18,000.00	17,900.00	15,400.00	500.00	5,000.00

# BLACK DOG WATER MANAGEMENT COMMISSION

## Budget Performance Report

December 31, 2019

*as of 01/31/2019*

	CURRENT MONTH	YEAR TO DATE			
	ACTUAL	GENERAL FUND BUDGET	CAPITAL IMPROVEMENT FUND BUDGET	ACTUAL	VARIANCE FAVORABLE (UNFAVORABLE)
<b>Opening Fund Balance</b>				443,330	\$ 443,330
<b>REVENUES :</b>					
<b>Member Contributions:</b>					
City of Apple Valley	\$ -	\$ 10,336	\$ 1,721	\$ 12,057	\$ -
City of Burnsville	-	94,480	16,318	110,798	-
City of Eagan	-	568	-	568	-
City of Lakeville	-	25,616	3,961	29,577	-
Total Member Contributions	-	131,000	22,000	153,000	-
<b>Other Revenues:</b>					
Interest	\$ -	\$ 40	\$ -	\$ 10,465	\$ 10,425
Grant (State of MN BWSR)	-	-	-	115,000	115,000
Total Other Revenue	-	40	-	125,465	125,425
<b>Total Revenues</b>	<b>\$ -</b>	<b>\$ 131,040</b>	<b>\$ 22,000</b>	<b>\$ 278,465</b>	<b>\$ 125,425</b>
<b>EXPENDITURES :</b>					
General Engineering Support	\$ 1,875	\$ 31,000	\$ -	\$ 15,850	\$ 15,150
Special Projects - General Fund	409	39,200	-	32,565	6,635
Special Projects - Capital Improvement Fund	-	-	96,700	100,939	(4,239)
Insurance	-	3,000	-	2,557	443
Legal and Audit	224	4,400	-	2,256	2,144
Administrative Support	19,296	18,000	-	19,296	(1,296)
Public Education	-	17,900	-	16,821	1,080
Water Quality Monitoring	-	14,900	-	14,616	284
Conference/Publications	-	500	-	295	205
Contingency	-	5,000	-	-	5,000
<b>Total Expenditures</b>	<b>21,804</b>	<b>133,900</b>	<b>96,700</b>	<b>205,194</b>	<b>25,406</b>
<b>TRANSFERS :</b>					
Transfers In	\$ -	\$ -	\$ 20,000	\$ -	\$ 20,000
Transfers Out	-	(20,000)	-	-	(20,000)
<b>Total Transfers</b>	<b>-</b>	<b>(20,000)</b>	<b>20,000</b>	<b>-</b>	<b>-</b>
<b>EXCESS OF REVENUES OVER (UNDER) EXPENDITURES</b>	<b>(21,804)</b>	<b>(22,860)</b>	<b>(54,700)</b>	<b>73,271</b>	
<b>EXCESS OF REVENUES OVER (UNDER) EXPENDITURES PLUS OPENING FUND BALANCE</b>				<b>516,602</b>	
<b>TOTAL CASH AVAILABLE 12/31/2019</b>	<b>538,406</b>				
<b>Fund Balance 12/31/2019</b>	<b>\$ 516,602</b>				

# **PUBLIC NOTICE**

**NOTICE IS HEREBY GIVEN** that pursuant to Minn. Stat. § 103B.227, Subd. 5, the Black Dog Watershed Management Commission is soliciting letters of interest for legal and engineering services. Letters must be received on or before 4:30pm Feb. 11, 2020. Letters should be submitted to the Commission in care of: Mr. Daryl Jacobson, Black Dog WMO Administrator, Burnsville Maintenance Facility, 13713 Frontier Court, Burnsville, MN 55337.



# CAMPBELL KNUTSON

PROFESSIONAL ♦ ASSOCIATION

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*Direct Dial: (651) 234-6215*  
*E-Mail Address: rknutson@ck-law.com*

January 20, 2020

Roger N. Knutson  
Elliott B. Knetsch  
Joel J. Jamnik  
Andrea McDowell Poehler  
Soren M. Mattick  
Henry A. Schaeffer, III  
Alina Schwartz  
Shana N. Conklin  
Amy B. Schutt  
James J. Mongé, III  
Jerome M. Porter  
David S. Kendall  
Kurt S. Fischer  
Thomas J. Campbell\*

\*Retired

Black Dog Watershed Management Commission  
c/o Mr. Daryl Jacobson, Administrator  
Burnsville Maintenance Facility  
13713 Frontier Court  
Burnsville, MN 55337

**RE: BLACK DOG WATERSHED MANAGEMENT ORGANIZATION  
- LETTER OF INTEREST FOR LEGAL SERVICES**

Dear Daryl:

Campbell Knutson is interested in reappointment as attorneys for the Black Dog Watershed Management Organization. We have represented the Black Dog WMO since 1982 and have enjoyed our relationship with the organization. I will continue as the lead attorney, with Joel Jamnik backing me up until October 2020. I will be retiring in October and Joel will take over as the lead attorney. We propose the following rates for legal services provided to the Black Dog WMO effective January 1, 2020:

	<u>Current</u>	<u>Proposed</u>
Attorneys	\$160/hour	\$170/hour
Law Clerks	\$ 82/hour	\$ 90/hour
Legal Assistants	\$ 82/hour	\$ 90/hour

We have enjoyed working with the Black Dog WMO in the past and look forward to working with you in the future. If you have any questions or require any additional information, please feel free to contact me.

Very truly yours,

CAMPBELL KNUTSON  
*Professional Association*

BY: \_\_\_\_\_

Roger N. Knutson

Grand Oak Office Center I  
860 Blue Gentian Road  
Suite 290  
Eagan, Minnesota 55121  
Main: 651-452-5000  
Fax: 651-234-6237  
www.ck-law.com

RNK:slc

208779v1





At Lac Lavon, bees are drawn to Joe-Pye weed (*Eutrochium purpureum*), an important part of riparian zone vegetation.

letter of interest to provide  
engineering consulting services for the years 2020 and 2021  
prepared for  
the Black Dog Watershed Management Organization



February 7, 2020

Black Dog Watershed Management Organization  
c/o Daryl Jacobson  
City of Burnsville Maintenance Facility  
13713 Frontier Court  
Burnsville, MN 55337

**re: interest in providing 2020–2021 engineering consulting services**

Dear Commissioners,

Barr Engineering Co. is pleased to submit our qualifications to the Black Dog Watershed Management Organization to provide engineering consulting services. We value our years of assistance to the WMO, which began in 1996. This history gives us a deep understanding of the challenges and opportunities your organization faces. Some of the benefits Barr has to offer include:

- **Commitment to working with you for the long haul.** Having served the WMO for 24 years, our team knows your organization's approach to watershed management—your policies, goals, and objectives. You can count on us to continue guiding existing activities and initiatives. We are committed to providing you with cost-effective and quality service from a core team of Barr staff members who have served you for many years. Our team will be anchored by leaders you've come to know and trust; Karen Chandler will remain in the principal role and as the WMO engineer, while Hal Runke will continue to provide technical review and assistance as needed. This means that you can count on continuity of team members and a commitment to getting the work done right the first time, on schedule and within budget.
- **In-depth knowledge of your watershed and your efforts to maintain the health of its water resources.** We know your watershed's history, physical characteristics, and improvement efforts, which means less time getting up to speed and providing the best possible plans and solutions.
- **Credibility.** We have established a reputation as experts in water resources management and have developed strong working relationships with governmental agencies. The WMO will continue to benefit from Barr's reputation and relationships, as they allow us to keep abreast of current grant opportunities, changing regulatory programs, management trends, and developing water resource issues. This will be especially helpful as you administer your BWSR Clean Water Fund grant for the Keller Lake alum treatment project and prepare your next watershed management plan.
- **Multidisciplinary team with a wide breadth of knowledge to address any of your challenges.** With nearly 900 engineers, scientists, and technical experts company-wide, we have the expertise and capacity to solve your most challenging problems, both in terms of size and complexity. We can draw from a variety of disciplines, and our depth and breadth of staff is unmatched locally, allowing you to easily access additional personnel should your projects require it.

Thank you for the opportunity to provide information regarding our watershed management services. We look forward to continuing our successful working relationship. If you have any questions, please feel free to contact me at 952-832-2813 or [kchandler@barr.com](mailto:kchandler@barr.com).

Sincerely,

A handwritten signature in black ink that reads "Karen L. Chandler". The script is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Karen Chandler, PE  
Vice President, Principal in Charge

# water resources services

## water quality studies, TMDLs, and project implementation

- completing TMDL studies for clients and the MPCA, including developing TMDL reports and implementation plans
- completing diagnostic feasibility studies to determine the causes of poor lake water quality and evaluate the feasibility and benefits of various water quality improvement practices
- using water quality modeling to identify pollutant sources and prioritize improvement efforts
- collecting, analyzing, and reporting on chemical and biological data for lakes, including trends
- designing stormwater BMPs to improve downstream water quality
- designing and implementing chemical treatment options for in-lake, pond, or other watershed BMPs

## watershed planning and management

- preparing watershed management plans and amendments
- conducting gaps analyses for WMOs
- tracking grant opportunities and assisting with grant applications
- developing rules and regulations for WMOs
- reviewing local watershed management plans for conformance with WMO plans
- coordinating with administrators, commissioners, municipalities, regulatory agencies, and other stakeholders
- coordinating and facilitating stakeholder involvement
- preparing annual reports
- reviewing development and redevelopment plans and projects
- providing administrative support

## stormwater management

- evaluating stormwater management systems with computer models to estimate watershed runoff; flow through storm sewer networks; and flood elevations in ponds, lakes, and streams
- inventorying and evaluating sediment accumulation in stormwater ponds, including surveying ponds, collecting sediment samples and evaluating laboratory results, and obtaining necessary permits for sediment removal projects
- determining project cost allocations to stakeholders based on hydrologic and water quality modeling analyses
- installing and operating stormwater flow and water quality monitoring equipment
- designing and overseeing construction of stormwater management infrastructure, including storm sewers, detention ponds, stormwater treatment BMPs, flood protection measures, and dams
- helping counties, municipalities, and other MS4 operators meet NPDES permitting requirements



### **ecological planning and low-impact development design**

- designing development and redevelopment sites using low-impact design principles
- designing low-impact development stormwater BMPs (rain gardens, filtration and infiltration systems)
- developing and conducting habitat monitoring programs for water bodies
- providing master planning for stormwater and natural resources management
- providing lakescaping to improve shoreline stability and habitat
- developing and implementing plans for managing aquatic plants
- developing rapid response plans for aquatic invasive species
- conducting environmental reviews
- providing education and interpretive planning
- managing fish and wildlife
- providing greenway planning

### **floodplain management**

- performing hydrologic and hydraulic modeling
- conducting flood insurance studies
- mapping floodplains and completing map revisions
- assisting with FEMA levee certification
- assisting with floodplain permitting
- conducting dam failure analyses
- designing flood control structures

### **wetland management**

- delineating wetland boundaries and classifying wetlands
- developing wetland inventories and function and value assessments
- monitoring wetlands and training others to monitor them
- designing and implementing wetland restoration plans
- developing wetland mitigation plans and assisting with permitting
- helping local government units administer Minnesota's Wetland Conservation Act
- evaluating wetland hydrology and potential impacts of hydrologic modifications

### **stream and ravine restoration and protection**

- evaluating and designing stream and ravine stabilization measures and overseeing construction
- developing erosion control management plans for creek systems
- installing and operating automated stream monitoring equipment
- performing biotic index monitoring and fish surveys
- classifying stream systems for ecological use



## key team members

Our team will be led by an experienced principal, Karen Chandler, who will be your primary contact and WMO engineer. As a senior advisor, Hal Runke will provide guidance and project continuity. In addition to Hal, Karen will be supported by a team of experts who are leaders in limnology, surface water quality, aquatic invasive species management, wetlands, stormwater management, ecology, shoreline and habitat restoration, and watershed management planning. Our Minneapolis-based team is just minutes away, which will facilitate consistency and face-to-face interactions. If additional technical resources are needed, you'll have easy access to Barr's nearly 900 engineers, scientists, and technicians across 24 disciplines.



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### **KAREN CHANDLER, PE**

**Vice President, Sr. Water Resources Engineer, Principal in Charge, Project Manager**  
MS, Civil Engineering

Karen has 33 years of experience with water resources management and stormwater and watershed management planning. She oversees hydrologic, hydraulic, and water quality analyses; water quality monitoring programs; and the feasibility assessment, design, and construction of stormwater projects. She also assists with community relations and public presentations and facilitates public processes. Over the last 20-plus years, Karen has helped the Black Dog WMO prepare and implement two watershed management plans, apply for grants on behalf of the WMO or member cities, undergo a BWSR PRAP level II performance review, implement the BWSR watershed-based funding program, and lead water quality and habitat monitoring work for the WMO's five strategic water resources.



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### **GREG WILSON, PE**

**Sr. Water Resources Engineer, Water Quality Management**  
MS, Civil Engineering

Greg has 30 years of experience in water resources management. His expertise includes water quality modeling, TMDL/WRAPS studies, stressor identification, limnology, watershed and lake management plans, hydrology and hydraulics, NPDES and wetland permitting, diagnostic feasibility studies, SWPPP development, and public education and outreach. Greg helped the WMO and Burnsville plan and complete alum treatments of lakes and ponds. He is managing the Keller Lake alum treatment project, including the feasibility study, a successful BWSR Clean Water Fund grant application, and the first alum treatment in 2019.



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### **GREG WILLIAMS, PE**

**Sr. Water Resources Engineer, Watershed Planning**  
MSCE, Civil and Environmental Engineering

Greg has 14 years of experience helping watershed organizations and cities develop watershed and surface water management plans, capital improvement plans, ordinances, policies, and hydrologic and hydraulic and water quality models. He contributed to watershed management plans for the Black Dog WMO (2012), Bassett Creek Watershed Management Commission (2015), Ramsey-Washington Metro Watershed District (2017), Nine Mile Creek Watershed District (2017), and Riley-Purgatory-Bluff Creek Watershed District (2018), and managed development of the Valley Branch Watershed District's 2015–2025 plan. He is currently managing plan development for the Lower Rum River Watershed Management Organization (2021) and Lower Mississippi River Watershed Management Organization (2021). Greg also managed water management plan updates for Apple Valley, Golden Valley, Hastings, and Richfield, and has written portions of stormwater management plans for St. Louis Park, Eau Claire, Lakeville, North St. Paul, Red Wing, and Willmar.

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**KEVIN MENKEN**  
**Sr. Environmental Engineer, Water Quality Management**  
MS, Environmental Engineering

Kevin has 14 years of experience in water resources engineering and environmental investigation, remediation, and restoration. He performs sediment investigations and phosphorus studies; manages water quality monitoring of lakes, rivers, and streams; models pollutant runoff from watersheds; and develops TMDLs. He also conducts lab analyses of phosphorus fractions in lake sediments, performs internal phosphorus loading studies, and determines alum dosing to treat internal lake phosphorous loading. For the WMO, Kevin managed the management-level water quality monitoring at Orchard Lake, Lac Lavan, and Crystal Lake and conducted sediment sampling and phosphorus analyses at Keller Lake and Lac Lavan.



**KAREN WOLD**  
**Sr. Environmental Scientist, Wetland and Habitat Management**  
BA, Environmental Studies

Karen has two decades of experience with wetland delineations, monitoring, permitting, replacement plans, and functional assessments for Minnesota watershed organizations and municipal, county, industry, and commercial clients. She serves as a technical representative for administration of the Wetland Conservation Act and local government wetland rules. Past Black Dog WMO work has included revamping the 2011 habitat monitoring program and conducting field monitoring, wetland functional analysis, and reporting.



**DAVE MELMER**  
**Sr. Environmental Technician, Water Quality Monitoring**  
BS, Biology

Dave has 34 years of experience collecting and analyzing biological and water chemistry samples from lakes, rivers, streams, and stormwater treatment discharges. His experience includes sampling periphyton, zooplankton, and macroinvertebrates; performing water quality monitoring and sampling; collecting sediment cores from rivers, lakes, and holding ponds; conducting electro-fish surveys; and assisting with wetland delineations. He has conducted work at several lakes in the Black Dog watershed.



**MEG RATTE**  
**Sr. Biologist, Aquatic Plant Management**  
BA, Biology

Meg has 45 years of experience on projects involving aquatic species monitoring and management and water quality monitoring, studies, and management plans. She develops aquatic invasive species prevention, management, and emergency response plans, including for the Valley Branch Watershed District and Bassett Creek Watershed Management Commission. Meg has managed 10 herbicide treatment implementation projects to control Eurasian water-milfoil and/or curly-leaf pondweed. She was also involved in the response to a zebra mussel infestation in a regionally important lake in the Twin Cities metropolitan area. Meg manages the aquatic plant surveys performed on behalf of the Black Dog WMO.



**HAL RUNKE, PhD**  
**Vice President, Sr. Limnologist, Sr. Advisor, Water Quality Management Oversight**  
PhD, Environmental Engineering

Hal has devoted 42 years to the study and resolution of lake and stream water quality impairments. He has written the water quality and wetlands management sections of surface water management plans for seven WMOs and six Minnesota cities, including the Black Dog WMO. Hal directs Barr's impaired waters (TMDL) work and developed the TMDLs for Crystal, Keller, and Lee lakes. He also managed upgrades to the Crystal Lake ferric chloride water treatment system implemented in 1998. Hal served as principal in charge of Barr's work for the WMO from 2007 to 2017.





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**JEN KOEHLER, PE****Sr. Water Resources Engineer, Water Quality Management**

MS, Water Resources

Jen's 14 years of experience include hydrologic and hydraulic modeling, in-lake water quality modeling, water management planning, and development of stormwater reuse BMPs. She worked on the Black Dog WMO's TMDL study for Crystal, Keller, and Lee lakes, and has been involved with developing related implementation plans. Jen helped the City of Apple Valley conduct a subwatershed assessment of the Keller Lake watershed to identify potential projects to help the city achieve its wasteload allocation and helped the city develop a feasibility study for one of the potential projects (Redwood Pond).



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**KURT LEUTHOLD, PE, LEED AP****Vice President, Sr. Civil Engineer**

BS, Civil Engineering

Kurt has 33 years of experience in land development, hydrology, hydraulics, and surface water management. He specializes in infrastructure design that optimizes the interaction of water, soils, and plants and supports biodiversity and environmental protection. Kurt has designed numerous green infrastructure projects in Burnsville and neighboring communities, including a nationally recognized rain garden project.



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**FRED ROZUMALSKI, PLA****Sr. Landscape Ecologist and Landscape Architect**

MLA, Landscape Architecture

For 24 years, Fred has applied his expertise in ecology, master planning, natural resource inventories, shoreline and plant community restoration, alternative stormwater management, native landscape design, and landscape architecture to projects for watershed organizations, municipalities, private sector clients, and arts and educational institutions. He worked on rain garden installations in a Burnsville neighborhood to manage stormwater entering Crystal Lake. Other Black Dog watershed projects include a natural resources master plan and an upland and wetland restoration.



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**MATT KUMKA, PLA****Sr. Landscape Architect**

MLA, Landscape Architecture

Matt has 12 years of experience in landscape architecture, including native plant community restoration and stormwater infrastructure BMPs. At Barr, he creates sustainable landscape master plans and native plant community restorations, including multi-year establishment plans and ongoing invasive species control. Matt has managed and led design on numerous projects related to stormwater quality improvement and ecologically appropriate place-making. He has designed vegetation restoration for various stream restoration projects throughout the state and has helped develop and present educational topics to the Black Dog WMO.

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## about Barr

Barr traces its roots to the early 1900s and the work of Adolph Meyer, a pioneering Minnesota hydrologist. Doug Barr began working with Meyer in the 1950s and built a practice of his own while learning from this skilled hydrologist.

When Barr Engineering Co. was incorporated as an employee-owned firm in 1966, it had 16 staff members. Today, nearly 900 employees assist clients from offices in Minnesota, Michigan, Missouri, North Dakota, Utah, Colorado, and Alberta.

Our commitment to water resources remains strong. Nearly 100 engineers and scientists in our Minneapolis office alone are engaged in the practices of water resources engineering and planning, wetland management, ecology, and limnology.

Barr has served as the Black Dog WMO's engineer since 1996. Our services have included preparing watershed management plans; monitoring lakes for water quality and habitat; conducting water quality studies; preparing the TMDLs for Crystal, Keller, and Lee lakes; reviewing member cities' use attainability analysis and TMDL implementation projects; implementing the Keller Lake alum treatment project and assisting with the grant application and administration; and assisting with the operation, monitoring, evaluation, and discontinuance of a ferric chloride system.

In addition to the Black Dog WMO, Barr has worked for more than two dozen Minnesota WMOs and serves as the primary engineering consultant to:

- Bassett Creek Watershed Management Commission (since 1969)
- Cedar River Watershed District (since 2007)
- Lower Mississippi River Watershed Management Organization (since 1987)
- Lower Rum River Water Management Organization (since 1987)
- Nine Mile Creek Watershed District (since 1960)
- Ramsey-Washington Metro Watershed District (since 1975)
- Riley-Purgatory-Bluff Creek Watershed District (1969-2007; 2013–present)
- Shell Rock River Watershed District (since 2008)
- Valley Branch Watershed District (since 1969)

