

Black Dog Watershed Management Commission

AGENDA

Wednesday, January 18, 2023

5:00 P.M.

COMMISSIONERS:

Curt Enestvedt, Chair
Mike Hughes, Vice Chair
Scott Thureen, Secretary/Treasurer
Rollie Greeno
Frank Boyce, Alternate
Greg Helms, Alternate
Natalie Walker, Alternate

- I. Approval of Agenda
- II. Approval of Minutes – November 16, 2022
- III. Approval of Accounts Payable
- IV. Review Budget Performance Reports
- V. Election of Officers for 2023
- VI. Approve Engineering Fees for 2023
- VII. Approve Official Depositories for Commission Funds
- VIII. Approve Official Newspaper for the Black Dog WMO
- IX. Approve 2023 Joint Powers Agreement with Dakota County SWCD
- X. Discuss Potential Stories for the Annual Watershed Report
- XI. Miscellaneous
- XII. 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.

To obtain this information in alternative forms such as braille, large print, audiotape or qualified readers, please contact the City of Burnsville. Telephone (952) 895-4400, TDD (952) 895-4567.

Agenda Background January 18, 2023

I. Approval of Agenda

Agenda enclosed.

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

II. Approval of Minutes from the November 16, 2022 Meeting

Minutes enclosed.

Action Requested: A motion be considered to approve the Minutes of the November 16, 2022 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. Election of Officers for 2023

The Black Dog WMO Joint Powers Agreement requires that officers be elected each year. Currently the officers are:

Chair – Curt Enestvedt

Vice Chair – Mike Hughes

Secretary/Treasurer – Scott Thureen

Action requested: Staff will accept nominations and conduct an election for the above positions.

VI. Approve Engineering Fees for 2023

Enclosed in the packet are the proposed Barr Engineering Fees for 2023.

Action requested: Approve the 2023 Engineering Fees

VII. 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 with them.

Action Requested: Approve US Bank in St. Paul and League of MN Cities 4M Fund as official depositories.

VIII. Approve Official Newspaper for the Black Dog WMO

The JPA requires that the Commission designate an official newspaper. In 2020 the BDWMO used the Sun Thisweek as the official newspaper. Items typically published in the official newspaper are public notices.

Action Requested: Approve the Burnsville Sun Thisweek as the official newspaper for 2023.

IX. Approve 2023 Joint Powers Agreement with Dakota County SWCD

The Joint Powers Agreement with the SWCD will be sent to the Black Dog WMO attorney for review prior to the meeting. The 2023 SWCD work plan and budget were previously approved by the commission.

Action Requested: Approve a joint powers agreement with Dakota County SWCD for 2023

X. Discuss Potential Stories for the Annual Watershed Report

Barr staff will lead a discussion on potential topics for the 2022 Watershed Report. Last years report is included in the packet for reference.

Action Requested: Provide feedback on ideas for the 2022 Watershed Report.

XI. Miscellaneous

DRAFT
Meeting Minutes
November 16, 2022

MEMBERS PRESENT

Curt Enestvedt, Chair
Mike Hughes, Vice Chair
Scott Thureen, Secretary/Treasurer
Rollie Greeno (*arrived 5:02pm*)

MEMBERS ABSENT

Natalie Walker, Alternate
Frank Boyce, Alternate
Greg Helms, Alternate

OTHERS PRESENT

Karen Chandler – Barr Engineering
Greg Williams – Barr Engineering
Joel Jamnik – Campbell Knutson
Samantha Berger – City of Apple Valley
Ann Messerschmidt – City of Lakeville
Daryl Jacobson – BDWMO Administrator
Tammi Carte – BDWMO Secretary

Curt Enestvedt, Chair, called the November 16, 2022 meeting to order at 5:00 pm.

I. Approval of Agenda

Motion by Thureen, second by Hughes, to approve the November 16, 2022 Agenda as presented.

Ayes – Enestvedt, Hughes, Thureen
Nays – None

Motion Carried Unanimously

II. Approval of Minutes from the September 21, 2022 Meeting

Motion by Hughes, second by Thureen, to approve the September 21, 2022 Minutes as presented.

Ayes – Enestvedt, Hughes, Thureen
Nays – None

Motion Carried Unanimously

III. Approval of Accounts Payable

Motion by Thureen, second by Hughes, to approve accounts payable to Barr Engineering in the amount of \$4,721.15 for services from September 3, 2022 through October 28, 2022; and, to Campbell Knutson in the amount of \$70.00 for September 2022 and October 2022 general services.

Ayes – Enestvedt, Hughes, Thureen, Greeno

Nays – None

Motion Carried Unanimously

IV. Review Budget Performance Reports

Daryl Jacobson, BDWMO Administrator, shared that most 2022 member contributions have been received.

No Formal Action Required

V. Adopt the Resolution for the Black Dog WMO 2023-2032 Watershed Management Plan

A copy of the memo with a resolution to adopt the 2023-2032 Black Dog WMO Watershed Management Plan was provided to the Commission for review prior to tonight's meeting.

Motion by Hughes, second by Thureen, to adopt the resolution to adopt the 2023-2032 Black Dog WMO Watershed Management Plan.

Ayes – Enestvedt, Hughes, Thureen, Greeno

Nays – None

Motion Carried Unanimously

VI. Summary and Discussion of Watershed Management Plan Next Steps and Implementation

Discuss next steps and review the possibility of developing a goal tracking template for the WMO. The memo outlining these items was provided to the Commission for review prior to tonight's meeting.

Greg Williams, Barr Engineering, requested the Commission's direction to post the adopted plan on the website and to print one hardcopy as required by Met Council. Barr also requests permission to develop a template for tracking measurable goals. Greg shared there is approximately \$12,000 remaining in the plan budget and suggests using some of the remaining funds for developing the template. Staff recommends moving forward with the template.

Motion by Thureen, second by Hughes, to publish the plan, to print one hardcopy per Met Council requirements, and to authorize Barr Engineering to develop a measurable goal tracking template.

Ayes – Enestvedt, Hughes, Thureen, Greeno

Nays – None

Motion Carried Unanimously

VII. Miscellaneous

1. Apple Valley brought in a mounted goldfish removed from Keller Lake that will be used as part of the invasive species education program.
2. Thank you to all who worked diligently on updating Black Dog WMO 10 year plan. Congratulations on a job well done.
3. The December meeting will be canceled. The next meeting is scheduled for January 18, 2023.
4. The Commission term expiration date announced at the September meeting was incorrect. Current terms do not expire until the end of November 2023. This correction was included in the September Minutes.

VIII. Adjournment

Motion by Hughes, second by Thureen, to adjourn at 5:22 pm.

Ayes – Enestvedt, Hughes, Thureen, Greeno

Nays – None

Motion Carried Unanimously



Accounts Payable - January 18, 2023 Meeting

Barr Engineering - Services from October 29, 2022 through December 30, 2022

Engineering	\$	2,155.00
Special Projects: General Fund - 2022 Management Level Monitoring - Lac Lavon	\$	1,832.00
Special Projects: General Fund Reserve - Watershed Management Update	\$	3,130.50
Water Quality Monitoring - Orchard Lake Habitat Monitoring	\$	522.00
	\$	<u>7,639.50</u>

Campbell Knutson

General Services - November 2022	\$	175.00
	\$	<u>175.00</u>

Metropolitan Council

CAMP - Citizen Assist Monitor Project	\$	3,420.00
	\$	<u>3,420.00</u>

Accounts Payable Total \$ 11,234.50



December 31, 2022

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 October 29, 2022 through December 30, 2022

TOTAL PAYABLE THIS INVOICE:	\$ 7,639.50
Allocation:	
Engineering	\$ 2,155.00
Special Projects: General Fund	
• Lac Lavon 2022 Management Level Monitoring	\$ 1,832.00
Special Projects: General Fund Reserve	
• Watershed Management Update	\$ 3,130.50
Water Quality Monitoring	
• Orchard Lake Habitat Monitoring	\$ 522.00

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
Daryl Jacobson
1-4-22

Karen L. Chandler

Karen L. Chandler
Vice President

BUDGET SUMMARY - 2022 FY
Black Dog Watershed Management Commission
through December 30, 2022

Work Description	Pre-2022 Costs	2022 Barr Budget	Current Invoice	Spent This Year	Balance
Engineering	-----	31,000.00	2,155.00	22,608.43	8,391.57
Special Projects: General Fund					
<i>Reporting on Crystal Lk 2021 Water Quality Monitoring</i>	-----	4,600.00		4,558.00	42.00
<i>Lac Lavon 2022 Management Level Monitoring</i>		22,500.00	1,832.00	16,422.72	6,077.28
Subtotal -- Special Projects: General Fund	-----	27,100.00	1,832.00	20,980.72	6,119.28
Special Projects: General Fund Reserve					
<i>Watershed Management Plan Update</i> ¹	41,159.50	57,000.00 ²	3,130.50	43,004.53	13,995.47
Subtotal -- Special Projects: General Fund Reserve	-----	57,000.00	3,130.50	43,004.53	13,995.47
Water Quality Monitoring					
<i>Reporting on 2021 Kingsley Lake Habitat Monitoring</i>	-----	9,200.00		9,181.00	19.00
<i>2022 Orchard Lake Habitat Monitoring</i>		2,200.00	522.00	1,836.00	364.00
<i>Update Trend Analyses</i>	-----	2,000.00		1,885.00	115.00
Subtotal -- W.Q. Monitoring	-----	13,400.00	522.00	12,902.00	498.00
Public Education					
<i>Watershed Annual Report</i>	-----	4,300.00		4,841.50	(541.50)
<i>Annual Activity Report (BWSR)</i>	-----	2,000.00	0.00	1,889.50	110.50
Subtotal -- Public Education	-----	6,300.00	0.00	6,731.00	(431.00)
Total Services	-----	134,800.00	7,639.50	106,226.68	28,573.32

Notes:

¹ Plan Update budget=\$98,200 (\$97,000 authorized at 11/18/2020 meeting, additional \$1,200 authorized at 1/20/2021 meeting), including \$10,000 budgeted in 2020

² 2022 budget increase from \$40,000 to \$57,000 authorized at 6/15/2022 meeting, but no change in total Plan Update budget



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

Remittance address:
Lockbox 446104
PO Box 64825
St Paul, MN 55164-0825

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

December 31, 2022

Invoice No: 23190374.22 - 10

Total this Invoice	\$2,155.00
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Regarding: BDWMO 2022 Engineering Services

Professional Services from October 29, 2022 to December 30, 2022

Job:	2022	Engineering Services
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Task:	001	Attend BDWMO Meetings
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Labor Charges

	Hours	Rate	Amount
Vice President			
Chandler, Karen	1.70	190.00	323.00
Engineer / Scientist / Specialist III			
Williams, Sterling	1.60	155.00	248.00
	3.30		571.00
Subtotal Labor			571.00

Expense Charges

Travel			
11/16/2022	Chandler, Karen	Mileage	15.00
Subtotal Expenses			15.00

Task Subtotal \$586.00

Task:	002	Miscellaneous Consulting
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Labor Charges

	Hours	Rate	Amount
Vice President			
Chandler, Karen	6.60	190.00	1,254.00
Support Personnel II			
Nypan, Nyssa	3.00	105.00	315.00
	9.60		1,569.00
Subtotal Labor			1,569.00

Task Subtotal \$1,569.00

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

Project	23190374.22	BDWMO 2022 Engineering Services	Invoice	10
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Job Subtotal **\$2,155.00**

Total this Invoice **\$2,155.00**

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	2,155.00	27,184.43	29,339.43	27,184.43	2,155.00

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.



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

Remittance address:
Lockbox 446104
PO Box 64825
St Paul, MN 55164-0825

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

December 31, 2022
Invoice No: 23190375.22 - 10

Total this Invoice	\$1,832.00
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Regarding: 2022 BDWMO Management Level Water Quality Monitoring

Professional Services from October 29, 2022 to December 30, 2022

Job:	LAC	Lac Lavon 2022 Water Quality Monitoring
Task:	100	Monitoring Data Mgmt & Proj Mgmt

Labor Charges

	Hours	Rate	Amount
Vice President			
Chandler, Karen	.90	190.00	171.00
Engineer / Scientist / Specialist II			
Menken, Kevin	4.00	130.00	520.00
Engineer / Scientist / Specialist I			
Hankard, Madeline	6.00	90.00	540.00
Technician II			
Kwiatkoski, Brian	.30	105.00	31.50
Melmer, David	3.10	95.00	294.50
Technician I			
Schneider, Anna	3.10	80.00	248.00
Support Personnel I			
Merchant, Noella	.30	90.00	27.00
	17.70		1,832.00
Subtotal Labor			1,832.00
		Task Subtotal	\$1,832.00
		Job Subtotal	\$1,832.00
		Total this Invoice	\$1,832.00

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	1,832.00	19,148.72	20,980.72	19,148.72	1,832.00

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.

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



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

Remittance address:
Lockbox 446104
PO Box 64825
St Paul, MN 55164-0825

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

December 31, 2022
Invoice No: 23190457.22 - 5

Total this Invoice	\$522.00
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Regarding: BDWMO Habitat Monitoring

Professional Services from October 29, 2022 to December 30, 2022

Job:	ORCH	Orchard Lake 2022 Habitat Monitoring
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Task:	001	Monitoring Sample Plots
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Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist III				
Wold, Karen	3.60	145.00	522.00	
	3.60		522.00	
Subtotal Labor				522.00
		Task Subtotal		\$522.00
		Job Subtotal		\$522.00
		Total this Invoice		\$522.00

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	522.00	10,495.00	11,017.00	10,495.00	522.00

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.

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



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

Remittance address:
Lockbox 446104
PO Box 64825
St Paul, MN 55164-0825

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

December 31, 2022

Invoice No: 23191455.00 - 23

Total this Invoice	\$3,130.50
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Regarding: BDWMO 2022 Watershed Management Plan

Professional Services from October 29, 2022 to December 30, 2022

Job:	300	Review and Adoption
Task:	004	Adoption and distribution

Labor Charges

	Hours	Rate	Amount	
Vice President				
Chandler, Karen	2.20	190.00	418.00	
Engineer / Scientist / Specialist III				
Williams, Sterling	17.50	155.00	2,712.50	
	19.70		3,130.50	
Subtotal Labor				3,130.50
		Task Subtotal		\$3,130.50
		Job Subtotal		\$3,130.50
		Total this Invoice		\$3,130.50

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	3,130.50	71,062.53	74,193.03	71,062.53	3,130.50

Thank you in advance for the prompt processing of this invoice. If you have any questions, please contact Greg Williams, your Barr project manager, at (952) 832-2945 or email at gwilliams@barr.com.

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
November 30, 2022
Account # 602-0000G
381

RE: GENERAL SERVICES
RENDERED TO DATE:

			HOURS	
11/03/2022	JJJ	Emails regarding plan adoption; draft resolution of approval.	0.30	52.50
11/16/2022	JJJ	Attend board meeting.	0.70	122.50
		AMOUNT DUE	1.00	175.00
		TOTAL CURRENT WORK		175.00
		PREVIOUS BALANCE		\$70.00
12/02/2022		Payment - thank you		-70.00
		TOTAL AMOUNT DUE		<u>\$175.00</u>

OK



1-4-23

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.

**INVOICE****Invoice No:**
Invoice Date:
Page:0001149919
12/8/22
1 of 1**Please Remit To:**Metropolitan Council
Environmental Services
PO Box 856513
Minneapolis MN 55485-6513
United States**Customer Number:**

7100

Payment Terms:

Due 30 dys

Due Date:

1/7/23

Bill To:BLACK DOG LAKE WATERSHED MGMT ORG
LINNEA WIER / TERRY SCHULTZ
c/o City of Burnsville
13713 Frontier Ct
Burnsville MN 55337-4720
United States**AMOUNT DUE:****\$ 3,420.00 USD**

Amount RemittedFor account questions: metcar@metc.state.mn.us

Line	Identifier	Description	Quantity	UOM	Unit Amt	Original
						Net Amount
1	CAMP	Citizen-Assist-Monitor-Prj	1.00	EA	3,420.00	3,420.00

Subtotal:

3,420.00

Contract: 22R020D

Quantity of lake sites: 4 at \$760 each. 1 at \$380 each.
2022 Citizen-Assisted Monitoring ProgramFor questions about this bill, please contact Brian Johnson at 651-602-8743 or Brian.Johnson@metc.state.mn.us.

ANY UNPAID BALANCE OVER 30 DAYS FROM DATE OF INVOICE WILL BE SUBJECT TO A FINANCE CHARGE AT THE RATE OF 1.5% PER MONTH (18% PER YEAR)

Amount Due:**\$ 3,420.00**

OK
Dag Edul
12-9-22

BLACK DOG WMO
CASH ACTIVITY REPORT 2022

Date	Description	Deposits	Check #	Check Amount	Monthly Cash Balance	Expenditures: General Engineering Support	Special Projects (General)	Special Projects (Capital)	Special Projects (Gen. Reserve)	Insurance	Legal & Audit	Admin Support	Public Education	Water Quality Monitoring	Conf Public	Contingency
Balance as of 12/31/21					456,991.62											
19-Jan	Barr Engineering Co (2021)		1774	9,154.44		4,758.94	1,406.00	-	2,989.50					-		
19-Jan	Met Council - Environ Services (2021)		1775	3,800.00										3,800.00		
20-Jan	State of MN Grant (2021) - Cap	65,926.24														
31-Jan	Interest Income	4.16														
01/31/22 Balance		65,930.40		12,954.44	509,967.58	4,758.94	1,406.00	-	2,989.50	-	-	-	-	3,800.00	-	-
16-Feb	Barr Engineering Co		1776	11,132.63		2,156.63	163.00	-	7,965.00				655.50	192.50		
16-Feb	Campbell Knutson (2021)		1777	221.00							221.00					
16-Feb	City of Burnsville (2021)		1778	24,302.86								24,302.86				
16-Feb	Dakota County Soil & Water (2021)		1779	1,280.00			-	-	-				1,280.00			
28-Feb	Interest Income	3.95														
02/28/22 Balance		3.95		36,936.49	473,035.04	2,156.63	163.00	-	7,965.00	-	221.00	24,302.86	1,935.50	192.50	-	-
16-Mar	Barr Engineering		1780	18,263.21		2,923.71	1,300.00	-	7,394.50				1,696.50	4,948.50		
16-Mar	Campbell Knutson		1781	666.68				-			666.68					
31-Mar	Interest Income	22.10														
03/31/22 Balance		22.10		18,929.89	454,127.25	2,923.71	1,300.00	-	7,394.50	-	666.68	-	1,696.50	4,948.50	-	-
20-Apr	Barr Engineering		1782	18,745.13		2,572.13	1,958.00	-	7,263.50				2,394.50	4,557.00		
20-Apr	Campbell Knutson		1783	157.50							157.50					
30-Apr	Interest Income	74.49														
04/30/22 Balance		74.49		18,902.63	435,299.11	2,572.13	1,958.00	-	7,263.50	-	157.50	-	2,394.50	4,557.00	-	-
18-May	Barr Engineering		1784	11,349.63		3,454.25	2,269.88	-	2,447.50				1,737.50	1,440.50		
18-May	Campbell Knutson		1785	262.50							262.50					
18-May	Dakota County Soil & Water Conservation		1786	1,135.00		-	-	-	-				1,135.00	-		
31-May	Interest Income	187.60														
05/31/22 Balance		187.60		12,747.13	422,739.58	3,454.25	2,269.88	-	2,447.50	-	262.50	-	2,872.50	1,440.50	-	-
15-Jun	Barr Engineering		1787	10,804.87		3,959.13	2,620.71	-	3,978.03				247.00	-		
30-Jun	League of MN Cities Insurance Trust		1788	2,801.00						2,801.00						
30-Jun	Interest Income	312.83														
06/30/22 Balance		312.83		13,605.87	409,446.54	3,959.13	2,620.71	-	3,978.03	2,801.00	-	-	247.00	-	-	-
15-Jul	Barr Engineering		1789	5,560.01		2,296.08	2,015.43	-	1,248.50				-	-		
15-Jul	Campbell Knutson		1790	350.00							350.00					
31-Jul	Interest Income	472.86														
07/31/22 Balance		472.86		5,910.01	404,009.39	2,296.08	2,015.43	-	1,248.50	-	350.00	-	-	-	-	-
18-Aug	Barr Engineering		1791	6,079.85		1,268.50	2,143.35	-	2,668.00					-		
18-Aug	Dakota County Soil & Water Conserv Dist		1792	6,870.00			-		-				6,870.00			
31-Aug	Interest Income	650.46														
08/31/22 Balance		650.46		12,949.85	391,710.00	1,268.50	2,143.35	-	2,668.00	-	-	-	6,870.00	-	-	-
21-Sep	Barr Engineering		1793	11,930.70		776.50	5,267.70	-	4,645.00				-	1,241.50		
21-Sep	Campbell Knutson		1794	385.00							385.00					
30-Sep	Interest Income	711.06														
09/30/22 Balance		711.06		12,315.70	380,105.36	776.50	5,267.70	-	4,645.00	-	385.00	-	-	1,241.50	-	-

BLACK DOG WMO
CASH ACTIVITY REPORT 2022

Date	Description	Deposits	Check #	Check Amount	Monthly Cash Balance	Expenditures: General Engineering Support	Special Projects (General)	Special Projects (Capital)	Special Projects (Gen. Reserve)	Insurance	Legal & Audit	Admin Support	Public Education	Water Quality Monitoring	Conf Public	Contingency
7-Oct	City of Burnsville	110,297.00														
31-Oct	Interest Income	1,117.82														
10/31/22 Balance		111,414.82		-	491,520.18	-	-	-	-	-	-	-	-	-	-	-
10-Nov	City of Apple Valley	12,141.00														
10-Nov	City of Eagan	575.00														
30-Nov	City of Lakeville	29,987.00														
16-Nov	Campbell Knutson		1795	70.00		-	-	-	-		70.00			-		
16-Nov	Barr Engineering		1796	4,721.15		1,046.50	1,410.65		2,264.00							
30-Nov	Interest Income	1,420.02														
11/30/22 Balance		44,123.02		4,791.15	530,852.05	1,046.50	1,410.65	-	2,264.00	-	70.00	-	-	-	-	-
20-Dec	League of MN Cities	835.00								(835.00)						
31-Dec	Interest Income	1,777.56														
12/31/22 Balance		2,612.56		-	533,464.61	-	-	-	-	(835.00)	-	-	-	-	-	-
Total Revenue		226,516.15	Total Expense		150,043.16	25,212.37	20,554.72	-	42,863.53	1,966.00	2,112.68	24,302.86	16,016.00	16,180.00	-	-
Less: 2021 A/R		(65,926.24)	Less: 2021 A/P		(38,758.30)	(4,758.94)	(1,406.00)	-	(2,989.50)	-	(221.00)	(24,302.86)	(1,280.00)	(3,800.00)	-	-
December LMC insurance reclass		(835.00)			(835.00)											
Total YTD 2022 Revenue		159,754.91	Total YTD 2022 Exp		110,449.86	20,453.43	19,148.72	-	39,874.03	1,966.00	1,891.68	-	14,736.00	12,380.00	-	-
			2022 Budget		186,750.00	31,000.00	40,600.00	5,000.00	40,000.00	3,000.00	5,500.00	19,000.00	20,050.00	17,100.00	500.00	5,000.00
			Budget Remaining		76,300.00	10,547.00	21,451.28	5,000.00	125.97	1,034.00	3,608.32	19,000.00	5,314.00	4,720.00	500.00	5,000.00
<i>YTD Interest Income</i>		<i>6,754.91</i>														

BLACK DOG WATER MANAGEMENT COMMISSION

Budget Performance Report

December 31, 2022

(As of 12/31/2022)

	CURRENT MONTH	YEAR TO DATE			
	ACTUAL	GENERAL FUND BUDGET	CAPITAL IMPROVEMENT FUND BUDGET	ACTUAL	VARIANCE FAVORABLE (UNFAVORABLE)
Opening Fund Balance		\$ 402,670	\$ 81,489	\$ 484,160	
REVENUES :					
Member Contributions:					
City of Apple Valley	\$ -	\$ 10,399	\$ 1,742	\$ 12,141	\$ -
City of Burnsville	-	94,104	16,193	110,297	-
City of Eagan	-	575	-	575	-
City of Lakeville	-	25,922	4,065	29,987	-
Total Member Contributions	-	131,000	22,000	153,000	-
Other Revenues:					
Interest	\$ 1,778	\$ 40	\$ -	\$ 6,755	\$ 6,715
Grant (State of MN BWSR)	-	-	-	-	-
Total Other Revenue	1,778	40	-	6,755	6,715
Total Revenues	\$ 1,778	\$ 131,040	\$ 22,000	\$ 159,755	\$ 6,715
EXPENDITURES :					
General Engineering Support	\$ -	\$ 31,000	\$ -	\$ 20,453	\$ 10,547
Special Projects - General Fund	-	40,600	-	19,149	21,451
Special Projects - Capital Improvement Func	-	-	5,000	-	5,000
Special Projects - General Fund Reserve	-	40,000	-	39,874	126
Insurance	(835)	3,000	-	1,966	1,034
Legal and Audit	-	5,500	-	1,892	3,608
Administrative Support	-	19,000	-	-	19,000
Public Education	-	20,050	-	14,736	5,314
Water Quality Monitoring	-	17,100	-	12,380	4,720
Conference/Publications	-	500	-	-	500
Contingency	-	5,000	-	-	5,000
Total Expenditures	(835)	181,750	5,000	110,450	76,300
EXCESS OF REVENUES OVER (UNDER) EXPENDITURES	2,613	(50,710)	17,000	49,305	
EXCESS OF REVENUES OVER (UNDER) EXPENDITURES PLUS OPENING FUND BALANCE				533,465	
TOTAL CASH AVAILABLE 12/31/2022	533,465				
Fund Balance 11/30/2022	\$ 533,465				

December 28, 2022

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

Re: Rate Schedules

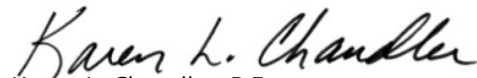
Dear Daryl Jacobson

Enclosed are Barr Engineering Co.'s rate schedules for the 2023 fiscal year (Barr's 2023 fiscal year runs from December 31, 2022, through December 29, 2023). Per the provisions of our contractual arrangement, these schedules are proposed as the basis for our 2023 work for Black Dog WMO. In 2023, I will continue as the Principal-in-Charge and WMO Engineer for Black Dog WMO.

Please also accept this letter as notification that we have renewed our professional and general liability insurance. If our agreement with you requires that you receive a current insurance certificate, you should already have received that directly from our insurance representative. If you have not, or if you have any questions regarding our insurance coverages, please contact me.

We remain committed to providing superior technical expertise, sound advice, and attention to you and your organization's needs and ask for your feedback if you feel we aren't measuring up to those goals. We appreciate your confidence in Barr and look forward to being of continued service. If you have any questions about our rate schedules or our work for you, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Karen L. Chandler". The signature is fluid and cursive.

Karen L. Chandler, P.E.
Vice President

Enclosures



Fee Schedule—2023

Rev. 12/31/2022
Sheet 1 of 1

Description	Rate* (U.S. dollars)
Vice President	\$170-315
Consultant/Advisor	\$205-300
Engineer/Scientist/Specialist IV	\$175-200
Engineer/Scientist/Specialist III	\$145-170
Engineer/Scientist/Specialist II	\$120-140
Engineer/Scientist/Specialist I	\$80-115
Technician IV	\$155-200
Technician III	\$125-150
Technician II	\$95-120
Technician I	\$70-90
Support Personnel III	\$155-200
Support Personnel II	\$95-150
Support Personnel I	\$70-90

Rates for litigation support services will include a 30% surcharge.

A ten percent (10%) markup will be added to subcontracts for professional support and construction services to cover overhead and insurance surcharge expenses.

Invoices are payable within 30 days of the date of the invoice. Any amount not paid within 30 days shall bear interest from the date 10 days after the date of the invoice at a rate equal to the lesser of 18 percent per annum or the highest rate allowed by applicable law.

For travel destinations within the continental U.S. (CONUS) and Canada, meals will be reimbursed on a per diem basis. The per diem rate will be as published by the U.S. Internal Revenue Service (IRS) based on the High-Low method. Full-day per diem rates will be pro-rated on travel days. For travel destinations outside the continental U.S. (CONUS) and Canada, meals will be reimbursed based on actual expenses incurred.

All other reimbursable expenses, including but not limited to costs of transportation, lodging, parking, postage, shipping, and incidental charges, will be billed at actual reasonable cost. Mileage will be billed at the IRS-allowable rate.

Materials and supplies charges, printing charges, and equipment rental charges will be billed in accordance with Barr's standard rate schedules.

Vice President category includes consultants, advisors, engineers, scientists, and specialists who are officers of the company.

Consultant/Advisor category includes experienced personnel in a variety of fields. These professionals typically have advanced background in their areas of practice and include engineers, engineering specialists, scientists, related technical professionals, and professionals in complementary service areas such as communications and public affairs.

Engineer/Scientist/Specialist categories include registered professionals and professionals in training (e.g., engineers, geologists, and landscape architects) and graduates of engineering and science degree programs.

Technician category includes CADD operators, construction observers, cost estimators, data management technicians, designers, drafters, engineering technicians, interns, safety technicians, surveyors, and water, air, and waste samplers.

Support Personnel category includes information management, project accounting, report production, word processing, and other project support personnel.

*Rates do not include sales tax on services that may be required in some jurisdictions.



Copy Production Rate Schedule—2023

Rev. 12/31/2022
Sheet 1 of 1

Description

(U.S. dollars)

	Rate	Unit
Reproduction, Printing/Plotting, Miscellaneous		
Report Binding	2.25	ea
3-Ring Binder 1/2 in	2.75	ea
3-Ring Binder 1 in	6.00	ea
3-Ring Binder 1-1/2 in	4.00	ea
3-Ring Binder 2 in	6.00	ea
3-Ring Binder 2-1/2 in	9.70	ea
3-Ring Binder 3 in	9.60	ea
3-Ring Binder 4 in	13.00	ea
3-Ring Binder 11 in x 17 in	35.00	ea
3-Ring Binder 5 in	19.00	ea
CD Holders	1.00	ea
Tabs	0.50	ea
Laminated Pocket Sheets	0.75	ea
Photocopies (large format)	1.00	copy
Color Plotter (HP755/3500 Bond)	2.00	sq ft
Color Plotter (HP755/3500 Photograph)	4.00	sq ft
B&W Copies or Prints	0.08	copy
Color Copies or Prints	0.50	copy
Postage	USPS rate	ea



Rental Equipment Rate Schedule—2023

(Alphabetized)
(see general and end notes)

Rev. 12/31/2022

Sheet 1 of 11

Description

(U.S. dollars)

	Rate	Unit
Non-Expendable Equipment		
<i>Air Quality</i>		
Acrulog Air Monitor	100.00	day
Aeroqual S500 Air Monitor	100.00	day
Air Cooled M5 Probe/Oven Assembly	330.00	day
Ambient SO2 Monitor	110.00	day
Analytical Balance	6.60	ea
Analyzer Filter Oven	16.50	day
Analyzer Support Kit (a.)	440.00	day
Anemometer	55.00	day
CO Analyzer	275.00	day
CO Cal Gases (set of 2)	44.00	day
CO/O2/CO2 Regulators (set of 2)	22.00	day
Data Logger	44.00	day
Digital Calibrator	33.00	day
Dilution Calibrator	220.00	day
Dual Pen Strip Chart	55.00	day
EPA 6 SO2 Analysis Kit	65.00	day
EPA General Wet Method Prep	25.00	run
EPA Method 202	140.00	test
EPA Method 202 - Dry reag/proof blank	36.00	run
EPA Method 202 - Dry Sample & Blank	52.00	run
EPA Method 202 - Wet Sample & Blank	32.00	run
EPA Method 25 (TGNMO) Sampling Train	275.00	day
EPA Method 3 ORSAT Analyzer	27.50	day
EPA Method 30B Probe	55.00	day
EPA Method 4	300.00	day
EPA Method 5 Sample & Blank	16.50	run
EPA Method 5 Sampling Train	440.00	day
EPA Method 5 Wet Test Meter Calibrator	265.00	day
FEM PM2.5 Particulate Sampler	1,650.00	month
Gas Conditioner	66.00	day
Heated Sample Line (100')	110.00	day
Heated Sample Line (150')	110.00	day
Heated Sample Line (50')	66.00	day
Hivol Ambient Sampler Calibration Kit	27.50	day
Hydrocarbon Calibration Gases	65.00	day
Hydrocarbon Regulator Set	33.00	day
Met Station Calibration Kit	130.00	day
Meteorological Station	1,100.00	month
Midget Impinger Sample Line	55.00	day
Midget Impinger Sampling Train	45.00	day

**Rental Equipment Rate Schedule—2023**

(Alphabetized)
(see general and end notes)

Rev. 12/31/2022**Sheet 2 of 11****Description****(U.S. dollars)**

	Rate	Unit
MKS Multi-Gas Analyzer	1,210.00	day
Model 302 Gas Chromatograph	400.00	day
NCASI Method 8A Train	275.00	day
NCASI Sample Train	55.00	day
NOx Analyzer	285.00	day
NOx Cal Gases (set of 2)	44.00	day
NOx/SO2 Regulators (set of 2)	27.50	day
O2/CO2 Analyzer	275.00	day
O2/CO2 Cal Gases (set of 2)	44.00	day
Ohio Lumex Mercury Analyzer	1,650.00	day
PM 10/2.5 In Stack Separators	110.00	day
PM10 BAM-1020	410.00	month
PM10 HiVol	132.00	month
Portable Oxygen Analyzer	44.00	day
Primary Standard Flow	65.00	day
Single Pen Strip Chart Recorder	38.50	day
SO2 Analyzer	330.00	day
SO2 Calibration Gas	44.00	day
SO2 Monitoring	1,760.00	month
SPM Flex	1,650.00	month
Testo 350 Portable Analyzer	297.00	day
Total Hydrocarbon Analyzer	440.00	day
TRS Kit	110.00	day
TSP Hi-Vol Sampler	33.00	day
Unheated Sample Line 100 ft.	44.00	day
Universal Control Console (Vost Meter)	275.00	day
Volumetric Air Flow Measure	65.00	day
Volumetric and Mass Flow Calibrator	110.00	day
<i>Field Equipment</i>		
1-1/2 in Multi-Stage Pump	65.00	day
1-1/2 in Submersible Purge Pump	35.00	day
360 Degree Camera	18.00	day
4 in Submersible Pump	300.00	day
4 in. OD C.A.B. Tube	15.00	foot
Alkalinity Test Kit	8.00	test
Alpha Water Bottle	3.00	ea
Aqua Troll 600	165.00	day
Aqua Troll 600 w/Extra Sensor	180.00	day
Arc Flash Label Printer	5.00	use
Area/Velocity Flow Meter	35.00	day
Auto Sampler w/Depth Sensor & Flowmeter	60.00	day
Automatic Sampler	30.00	day

**Rental Equipment Rate Schedule—2023**

(Alphabetized)
(see general and end notes)

Rev. 12/31/2022**Sheet 3 of 11****Description****(U.S. dollars)**

	Rate	Unit
Bladder Pump w/Controller	125.00	day
Clarifier Pilot Test Unit	72.00	day
Conductivity Meter	20.00	day
Conductivity Meter Plus	35.00	day
Current Meter Suspension Kit	55.00	day
Data Transfer System (DTU)	22.00	day
Depth Sensor/Flow Meter only	30.00	day
Differential Pressure Datalogger	18.00	day
Disposable Vapor Manifold Kit w/o Pin	3.00	ea
Dissolved Oxygen Meter	40.00	day
Dissolved Oxygen Sensor/Datalogger	30.00	day
Dissolved Oxygen-Conductivity Meter	40.00	day
DSLR Camera w/24-120mm lens	75.00	day
Ekman Dredge	6.00	day
Electric Vacuum Pump	10.00	day
Electrical Pilot Skid	50.00	day
Electromagnetic Flowmeter	65.00	day
Environmental Equipment Shelter	2.75	day
Extensometer	40.00	day
Field-Rugged Laptop or Pocket PC	25.00	day
FieldSink	8.00	day
Fluorometer Kit Model 10-AU	240.00	day
Gas Centrifugal Pump	26.75	day
Gas Generator	30.00	day
Gator Diesel Air Compressor	60.00	day
GEM-2000 Landfill Gas Analyzer	150.00	day
Go-Pro Camera	20.00	day
Handheld Velocity Flow Meter	42.00	day
Hand Vacuum Pump	2.30	day
Heavy-Duty Weed/Brush Trimmer	17.00	day
HOB0 Weather Station	21.00	day
Isco Laser Flowmeter	48.00	day
Kemmerer Vertical Bottle Sampler	33.50	day
Laser Flowmeter w/Telemetry	50.00	day
Laser Flowmeter w/o Telemetry	47.50	day
Level Troll-Water Level/Temp Transducer	85.00	day
LR-24 Electro-Fisher	200.00	day
Measurement & Control Datalogger	13.00	day
Mini-Block Sampler	500.00	use
Oil Water Interphase Probe	60.00	day
Orbital Shaker Table	105.00	day
Peristaltic Pump	45.00	day

**Rental Equipment Rate Schedule—2023**

(Alphabetized)
(see general and end notes)

Rev. 12/31/2022**Sheet 4 of 11****Description****(U.S. dollars)**

	Rate	Unit
Petite Ponar Dredge	15.00	day
PH Meter	30.00	day
Phipps & Bird Jar Tester	30.00	day
Pneumatic Slug Kit	9.00	day
Porewater Sampling Supplies (6)	40.00	pack
Portable Colorimeter	55.00	day
Portable Doppler/TT Ultrasonic Flowmeter	69.00	day
Portable Field Scale	15.00	day
Portable Greenhouse Gas Analyzer	200.00	day
Portable SVE Blower	30.00	day
Power Cable for Sodar Equip	167.00	month
Radon Monitor	62.00	day
RST SglChannel Vibrating Wire Datalogger	4.00	day
Sediment Corer	50.00	day
Seisgun	60.00	day
Shear Cell	419.00	day
SidePak Aerosol Monitor	150.00	day
Sodar Trailer (3 Month Minimum)	3,000.00	month
Soil Core Sampler/Bucket Auger	30.00	day
Soil Vapor Extraction System w/Trailer	135.00	day
Soil Vapor Recovery Parts (Point Tubing)	10.00	use
Soil Vapor Recovery System	40.00	day
Solar Panel Module w/Charge Controller	12.00	day
Sontek ADV (Acoustic Doppler Velocimeter)	140.00	day
Spectrometer UV/VIS Ocean Optics	115.00	day
Spill Containment Kit	10.00	day
Split Tube Soil Probe/Hand Auger	12.00	day
SS Submersible Pump Controller	45.00	day
Stainless Steel Vapor Sampling Manifold	4.00	use
SteamPro ADCP	450.00	day
Stroboscope	25.00	day
Submersible Pump SS w/Controller	150.00	day
Temperature Datalogger	1.50	day
TempLevelConductivity Meter (Solinst)	45.00	day
Tent	15.00	day
TracOne Truck Rack	11.00	day
Turbidimeter	25.00	day
Turbidity Sensor w/Cable - DTS-12	43.00	day
Underwater Viewing Camera	60.00	day
Unmanned Aircraft System (UAS)	160.00	hour
UV Organics Monitor	22.00	day
Vapor Pin Temporary Install Kit	50.00	use



Rental Equipment Rate Schedule—2023

(Alphabetized)
(see general and end notes)

Rev. 12/31/2022

Sheet 5 of 11

Description

(U.S. dollars)

	Rate	Unit
Vehicle Winch	25.00	day
Vibracoring System for Pontoon	500.00	day
Vibracoring System for Jon Boat	150.00	day
VW Piezometer/Data Logger Combo	200.00	use
Water Quality Meter (YSI 556 MPS)	85.00	day
Water Quality Meter (YSI ProDSS)	165.00	day
Well Downrigger	13.00	day
Well Level Indicator	25.00	day
Wireless Troll Com	25.00	day
WTW 1970i Conductivity Meter	85.00	day
XL Backpack	7.00	day
X-Ray Fluorescence Analyzer	380.00	day
Zooplankton	145.00	day
Zooplankton Net	7.00	day
<i>GSHM Hardware and Software</i>		
AMTS Protective Enclosure	150.00	month
Geomos Alarm Package	300.00	month
Geomos Software - Total Station Control So	600.00	month
iPad and Tablet Computer	20.00	day
Logger Box - CR300	55.00	month
Logger Box - CR6/CR1000	125.00	month
MNFI Database Search	250.00	ea
Multi-Channel Geonet Logger	75.00	month
Scanning AMTS Package	1,500.00	month
Three Single Channel Logger and VW Crack	125.00	month
Three Single Channel Loggers and VW Crack	250.00	month
Total Station Monitoring Package	2,500.00	month
VDM Site License Rental Fee - 1 Site License	15.00	month
Vibration System	1,500.00	day
Weekly AMTS Active Monitoring	1,250.00	week
Weekly AMTS Inactive Monitoring	310.00	week
Wi-Fi Hotspot	10.00	day
Wireless Vibration Sensor (CX-1)	840.00	month
Wireless Vibration Sensor Base (SNA-1)	1,440.00	month
<i>Materials and Testing</i>		
Borehole Camera System	200.00	day
Brass Sieve Set	6.00	day
Chlorophyll a (CHL a)	60.00	day
Coarse Sieve Set	10.00	day
Concrete Air Meter	36.00	day
Concrete Test Hammer	40.50	day
Cordless Portable Band Saw	30.00	day

**Rental Equipment Rate Schedule—2023**

(Alphabetized)
(see general and end notes)

Rev. 12/31/2022**Sheet 6 of 11****Description****(U.S. dollars)**

	Rate	Unit
Cordless Work Light	30.00	day
Cyre Sampler	150.00	day
Cyre Sampler Push Frame	100.00	day
DL Plus Ultrasonic Kit	62.00	day
Double Ring Infiltrometer	65.00	day
Dual-Mass Dynamic Cone Penetrometer	50.00	day
Dye Penetrant Kit	22.00	day
Filter Press	160.00	day
Flat Plate Dilatometer	500.00	day
Flux Chamber	32.00	day
GeoKon Black Handheld VW Reader	20.00	day
Geomil VST Electrical Vane Tester	500.00	day
Hand Vane Shear	98.50	day
Heavy-Duty Balance	16.00	day
Hilti Hammer Drill	25.00	day
Horizontal Sample Ejector	29.50	day
In-Place Inclinator (IPI) System	47.50	day
IPI System Data Acquisition Auxiliary Station	16.00	day
IPI System Data Acquisition Base Station	20.00	day
Kessler Field Moisture Oven	45.00	day
Limnology Lab	75.00	day
Liquid Limit Set	7.50	day
Load Plate Apparatus	230.00	day
Magnetic Crawler	48.00	day
Magnetic Particle Kit	38.00	day
Manual Extensometer (SlideMinder)	32.00	day
Metal Thickness Gauge	50.00	day
Minimate Plus Blast Monitor	100.00	day
MPD Infiltrometer - Triple Kit	61.00	use
Paint Thickness Gauge	15.00	day
Phytoplankton	145.00	day
Platform Beam Scale	14.75	day
PLC Lab	10.00	hour
PLC Lab	25.00	half day
PLC Lab	40.00	day
Pneumatic Readout	95.00	day
Point Load Testing System	100.00	day
Portable CPT	200.00	day
Power Auger	43.00	day
Proctor Set	4.50	day
Proving Ring Penetrometer	36.00	day
Resistivity Meter (Ultra Mini-Res)	110.00	day



Rental Equipment Rate Schedule—2023

(Alphabetized)
(see general and end notes)

Rev. 12/31/2022

Sheet 7 of 11

Description

(U.S. dollars)

	Rate	Unit
SAA Field Power Unit	25.00	day
Sample Splitter	5.00	day
Sand Cone Set	10.00	day
Shaw Backpack Core Drill	450.00	day
Silverwing Crawler	400.00	day
SINCO Inclinometer Probe	200.00	day
Soluble Reactive Phosphorus	28.00	day
Steel Inspection Kit #1	100.00	day
Steel Inspection Kit #2	300.00	day
Step Down Transformer (480V to 240V)	75.00	day
Strain Gage Monitoring and Logging System	350.00	month
Thermal Imaging Camera Flir E60	170.00	day
Torvane Shear Device	2.50	day
Total Dissolved Phosphorus	30.00	day
Total Nitrogen (TN)	40.00	day
Total Phosphorus (TP)	23.00	day
Vane Inspection Kit	19.00	day
Vertek CPT Equipment	593.00	day
Vibrating Wire Logger SINCO VW2104	24.00	day
Water Treatment Lab	200.00	day
Weld Inspection Equipment	12.00	day
Safety		
Aerosol Monitor (PDR-1000)	67.75	day
Automatic External Defibrillator (AED)	14.00	day
Calibration Gas Kit	8.75	day
Cell Booster	6.00	day
CO Monitor (ISC T82)	36.00	day
Confined Space Rescue Retrieval Kit	295.00	day
Confined Space Ventilator	54.75	day
Detector Tube Pump	15.00	day
Diesel Particulate Monitor Kit FLIR	200.00	day
Dry Cell Air Flow Calibrator	50.00	day
Emergency Escape Breathing Apparatus	18.00	day
Flame Ionization Detector TVA1000	133.00	day
Flotation Worksuit	19.75	day
Full Face Respirator	8.00	day
H2S Meter (I.S.C T40)	27.00	day
Half-Face Respirator	6.00	day
Helium Detector	55.00	day
InReach Satellite Communication Device	10.75	day
MSHA Kit	25.00	day
MX4 - O2 LEL H2S & CO 4 Gas Meter	45.00	day

**Rental Equipment Rate Schedule—2023**

(Alphabetized)
(see general and end notes)

Rev. 12/31/2022**Sheet 8 of 11****Description****(U.S. dollars)**

	Rate	Unit
MX6 - 6 Gas Meter	65.00	day
Noise Dosimeter	74.00	day
PAPR (Powered Air Purifying Respirator)	19.00	day
Personal Air Sampling Pump (SKC)	38.00	day
Photoionization Detector 10.6eV Lamp	110.00	day
Photoionization Detector 11.7eV Lamp	130.00	day
RKI Eagle-2 Multi-gas Monitor	105.00	day
Satellite Phone	13.35	day
Self-Retracting Lifeline-30'	56.00	day
Sound Level Meter	48.75	day
Spot Messenger Device	5.85	day
Supplied Air Breathing W/SCBA	75.50	day
Traffic Control Signs	2.10	day
UltraRAE 3000 Photoionization Detector	150.00	day
<i>Survey</i>		
Aquatic Invasive Species Decon System	187.00	day
Cellular Modem	110.00	month
Cellular Modem Antenna	27.50	month
Centimeter Grade Differential GPS System	180.00	day
Chain Saw	25.25	day
Communication Radios (set)	19.50	day
Differential GPS System (Trimble)	155.00	day
Garmin GPS	13.00	day
GPS-Digital Camera Kit	24.25	day
Hand Ice Auger	7.70	day
iPad with R1 GPS Receiver	55.00	day
Iron Locator	19.25	day
Laser Range Finder	96.00	day
LCD Depth Locator	12.50	day
Leica HDS ScanStation P20 or P40	137.00	hour
Leica Scanner RTC 360	125.00	hour
Leica Structural Monitoring AMTS	107.00	day
Matrice 300 RTK UAS	500.00	day
Modem Antenna (in excess of 3 months)	5.50	month
Power Ice Auger	33.00	day
R1 Receiver	45.00	day
Real-Time Kinematic (RTK) GPS Survey System	31.00	hour
Robotic Total Station	31.00	hour
Side Scanning Depth Finder	82.50	day
Spectra Laser Level	27.50	day
Survey Set (Level Tripod Rod)	22.75	day
Utility Locator	45.00	day



Rental Equipment Rate Schedule—2023

(Alphabetized)
(see general and end notes)

Rev. 12/31/2022

Sheet 9 of 11

Description

(U.S. dollars)

	Rate	Unit
Z-Boat Bathymetry Survey System	165.00	hour
<i>Vehicles, Boats, and Trailers</i>		
18 Foot Jon Boat & Trailer	150.00	day
4WD All-Terrain Vehicle (Ranger)	125.00	day
Air Sampling Trailer	125.00	day
Barr Owned Vehicle Use	105.00	day
Barr Owned Vehicle Use (combined use + mileage)	155.00	day
Vehicle – personal (b.)	72.50	day
Bathymetry Survey System - Boat Attachment	545.00	day
Canoe	45.00	day
DOT Heavy Trailer Mileage	0.25	mile
Jon Boat & Trailer	70.00	day
Kayak	50.00	day
Outboard Motor	50.00	day
Pontoon Boat Coring Platform	325.00	day
Tracked All-Terrain Vehicle (Ranger)	350.00	day
Trolling Motor and Battery	52.00	day
Utility Trailer	40.00	day
Yakima Canoe Trailer	38.00	day
<i>Communications and Imaging</i>		
Data Fees GT-5	44.08	month
Digital Camera	12.00	day
Video Camera	20.00	day
Expendable Field Supplies		
1 Liter Hazmat Cooler Packaging	124.00	ea
1/4 in ID PVC Tubing	0.30	foot
1/4 in ID Silicone Pump Tubing	1.80	foot
1/4 in Teflon Tubing for Vapor Manifold	4.90	foot
10cm Rhizon CSS w/Needle	25.70	ea
2 Liter Hazmat Cooler Packaging	141.60	ea
250 ML Disposable Filtration Apparatus	19.00	ea
3/16" ID Silicone Pump Tubing (per foot)	2.10	foot
3/8 in ID PVC Tubing	0.50	foot
3/8 in ID Silicone Pump Tubing	9.60	foot
3/8 in Teflon Tubing for Vapor Manifold	9.30	foot
3M Versaflo P100 PAPR Filter	86.00	ea
4-mil Quart Reclosable Bag (pack of 50)	5.70	pack
5-Gallon Hazmat Packaging	17.10	ea
500 ML Disposable Filtration Apparatus	33.30	ea
5-Gallon Pail w/Lid	14.10	ea
Bladder Pump Tubing 1/4 in	1.70	foot
Compressed Nitrogen (ea. 84 CF Q tank)	9.50	month

**Rental Equipment Rate Schedule—2023**

(Alphabetized)
(see general and end notes)

Rev. 12/31/2022**Sheet 10 of 11****Description****(U.S. dollars)**

	Rate	Unit
Core Tubing - 2 in Clear PVC	9.50	foot
Core Tubing - 3 in Aluminum	3.10	foot
Detector Tubes	21.90	ea
Distilled Water (each 1 gallon)	1.80	ea
Dot Gloves	1.70	ea
Encore Sampler - 5 or 25 Gram	9.00	ea
Fabric Soil Sample Bag	3.00	ea
Fence Post & Hardware for Stream Gauges	15.40	ea
Field Book/Construction Diary - Large	26.90	ea
Field Book/Construction Diary - Small	10.70	ea
Hydrochloric Acid - per Liter	9.10	ea
Ice (per bag)	2.50	ea
In-Line Groundwater Filter	18.40	ea
Knit Gloves Nitrile Coated	4.90	pair
Knit Gloves Nitrile Coated Insulated	7.80	pair
Latex Boot Covers	10.00	pair
Lath 4' (bundle of 50)	61.00	bundle
Leather Gloves	23.30	pair
Lock	18.00	ea
Nitrile Gloves - Heavy Duty	1.50	pair
Paper Towels (per roll)	2.40	roll
Pin Flagging (bundle of 100)	14.70	bundle
Polyethylene Tubing for Bladder Pump ¼"	0.20	foot
Powder Pillow Pack for Colorimeter	2.00	ea
PVC Coated Heavy Winter Gloves	15.40	pair
RAE-Sep Benzene Separation Tube	4.90	ea
Replacement Bladder Kit for QED Pump	23.40	ea
Respirator Cartridges - OVAG	27.70	pair
Respirator Cartridges - Particulate	12.50	pair
Rock Chip Tray	2.50	ea
Roll Flagging - 150'	4.60	ea
Snap Top Sediment Container - 8 oz.	1.30	ea
Spray Paint	8.00	ea
Staff Gauge	65.20	ea
Stakes (bundle of 50)	40.00	bundle
Surgical Gloves - Thin Nitrile	0.30	pair
Tree Tags and Nails (bundle of 100)	18.00	bundle
Tyvek Boot Covers	3.50	pair
Tyvek/Kleenguard Coverall	8.50	ea
Vapor Pin - Permanent Install Kit	100.50	ea
Versaflo OVAG/P100 PAPR Filter	165.00	ea
Weighted Disposable Bailer	5.90	ea



Rental Equipment Rate Schedule—2023

(Alphabetized)
(see general and end notes)

Rev. 12/31/2022

Sheet 11 of 11

Description

(U.S. dollars)

	Rate	Unit
Whirl-Pak Headspace Bags (packs of 50)	16.00	pack
Winter Glove Liner Blue Knit	3.30	ea
Zooplankton Bottle	2.20	ea

General Notes: Applicable to all Equipment Listed on this Schedule

1. Minimum rental period is 0.5 days unless noted.
2. Rental charges begin on the first day the equipment is used on a project.
3. Rental charges end on the last day the equipment is used on a project.
4. A 25 percent weekly rate discount will apply to equipment rented on a daily basis for 5 or more days
5. A 40 percent monthly discount will apply to equipment rented on a daily basis for 20 or more days.
6. Equivalent equipment/models may be substituted for the items listed.
7. Mileage will be billed at the IRS-allowable rate.

End Notes: Applicable to Only the Equipment Noted

- a. Analyzer Support Kit includes the following: Airflow Kit, Heated Sample Line (50'), Heated Sample Line (100'), Gas Conditioner, Heated Filter Box, Single Pen Recorder, Dual Pen Strip Chart, Data Logger, C3/C4 Cal Gases (set), NO_x/SO₂ Cal Gases (set), CO Cal Gases (set), CO₂/O₂ Cal Gas (set of 2), SO₂ Cal Gas (set of 2), C3 Regulator Set, NO_x/SO₂ Regulators (set of 2), and CO/CO₂/O₂ Regulators (set of 2).
- b. Employee personal vehicles subjected to field, off-road, transport or other severe duty.

**Specialty Software Services Rate Schedule—2023****Rev. 12/31/2022****Sheet 1 of 1****Description****(U.S. dollars)**

	Rate	Unit
Software Application		
Autocase per project	2,000.00	ea
BioApp	20.00	day
Chemcad	40.00	hour
CYMCAP per project	5,000.00	ea
Eagle.io Data Source (unit/month)	15.00	ea
Eagle.io Data Sources < 10 units	150.00	month
Eagle.io Data Sources > 30 units	600.00	month
Eagle.io Data Sources 11-29 units	350.00	month
EVS Software	150.00	day
Flow-3D per project	3,000.00	ea
GaBi per project	3,000.00	ea
GoldSim	100.00	month
I-Site Software	70.00	hour
Metsim	35.00	hour
Muk3D	5.00	hour
PHAWorks	40.00	hour
PSCAD per study	3,000.00	ea
PVCase per project	1,000.00	ea
RISA Software per project	1,000.00	ea
Sarproz - InSAR per project	750.00	ea
Vista Data Vision Software (site/month)	15.00	ea
Vulcan Software	55.00	hour
WinSLAMM per project	350.00	ea

**JOINT POWERS AGREEMENT BETWEEN
THE DAKOTA COUNTY SOIL AND WATER CONSERVATION DISTRICT AND
THE BLACK DOG WATERSHED MANAGEMENT ORGANIZATION
FOR EDUCATION, OUTREACH, AND TECHNICAL ASSISTANCE**

THE PARTIES TO THIS AGREEMENT are the Dakota County Soil and Water Conservation District, a political subdivision of the State of Minnesota (SWCD) and the Black Dog Watershed Management Organization, a political subdivision of the State of Minnesota (BDWMO). This Agreement is made pursuant to the authority conferred upon the parties by Minn. Stat. § 471.59.

NOW THEREFORE, the parties, in joint and mutual exercise of their powers, agree as follows:

1. **PURPOSE.** This Agreement will define the responsibilities and obligations of the SWCD and the BDWMO for education, outreach, and technical assistance services to be provided by the SWCD to the BDWMO as more fully described herein.
2. **TERM.** This Agreement shall be in effect as of January 1, 2023, notwithstanding the dates of the signatures of the parties, and shall remain in effect until December 31, 2023, or until completion by the parties of their respective obligations under this Agreement, whichever occurs first, unless earlier terminated by law or according to the provisions of this Agreement.
3. **SCOPE OF SERVICES.** SWCD agrees to provide BDWMO with education, outreach and technical assistance services as provided in the *2023 SWCD Work Plan and Budget Prepared for Black Dog Watershed Management Organization*, which is attached and incorporated herein as Exhibit 1.

In the event of a conflict between the terms of this Agreement and Exhibit 1, the terms of this Agreement shall govern.
4. **TOTAL COST.** The total amount to be paid by the BDWMO for all services provided pursuant to this Agreement shall not exceed \$28,900.00. The BDWMO shall pay SWCD for purchased services at the rates set out in Exhibit 1.
5. **TIME OF PAYMENT.** The BDWMO shall make payment to the SWCD within 35 days of the date on which an itemized invoice is received. If an invoice is incorrect, defective, or otherwise improper, the BDWMO shall notify the SWCD within 10 days of receiving the incorrect invoice. Upon receiving the corrected invoice, the BDWMO shall make payment within 35 days.
6. **PAYMENT FOR UNAUTHORIZED CLAIMS.** The BDWMO may refuse to pay any claim that is not specifically authorized by this Agreement. Payment of a claim shall not preclude the BDWMO from questioning the propriety of the claim. The BDWMO reserves the right to offset any overpayment or disallowance of claim by reducing future payments.
7. **PAYMENT UPON EARLY TERMINATION.** In the event this Agreement is terminated before the completion of services, the BDWMO shall pay the SWCD for services provided in a satisfactory manner, in a pro-rated sum of the rates set forth in Exhibit 1 based upon actual time spent. In no case shall such payments exceed the BDWMO's total cost under this Agreement.
8. **COMPLIANCE WITH LAWS/STANDARDS.** SWCD shall abide by all federal, state or local statutes, ordinances, rules and regulations now in effect or hereafter adopted pertaining to this Agreement or to the facilities, programs and staff for which SWCD is responsible.
9. **INDEPENDENT CONTRACTOR STATUS AND EMPLOYEE STATUS.** Nothing in this Agreement is intended or should be construed as creating the relationship of a partnership, joint venture or employer-employee relationship between the parties. Officers, employees or agents of one party shall not be considered officers, employees or agents of the other party.

10. SUBCONTRACTING. A party shall not enter into any subcontract for the performance of the services contemplated under this Agreement without prior written consent of the other party and subject to such conditions and provisions as are deemed necessary. The subcontracting party shall be responsible for the performance of its subcontractors unless otherwise agreed.
11. ASSIGNMENT. A party shall not assign any interest it has in this Agreement without prior written consent of the other party. The assigning party shall be responsible for the performance of its assignee unless otherwise agreed.
12. LIABLE FOR OWN ACTS. Each party to this Agreement shall be liable for the acts of its own officers, employees and agents and the results thereof to the extent authorized by law and shall not be responsible for the acts of the other party, its officers, employees and/or agents. It is understood and agreed that the provisions of the Municipal Tort Claims Act, Minn. Stat. ch. 466, and other applicable laws govern liability arising from a party's acts or omissions. Each party warrants that it has an insurance or self-insurance program and that it has minimum coverage consistent with the liability limits contained in Minn. Stat. ch. 466.
13. AUTHORIZED REPRESENTATIVES. The following named persons are designated the authorized representatives of the parties for purposes of this Agreement. These persons have authority to bind the party they represent and to consent to modifications and subcontracts, except that, the authorized representatives shall have only the authority specifically or generally granted by their respective Boards. Notification required to be provided pursuant to this Agreement shall be provided to the following named persons and addresses unless otherwise stated in this Agreement, or in a modification of this Agreement.

To SWCD:

Brian Watson, or successor, District Manager
Dakota County SWCD
4100 220th Street West, Suite 102
Farmington, MN 55024
Telephone: (651) 480-7778

To BDWMO:

Curtis Enestvedt, or successor, Chair
BDWMO
100 Civic Center Parkway
Burnsville, MN 55337

14. LIAISONS. To assist the parties in the day-to-day performance of this Agreement and to develop service, ensure compliance and provide ongoing consultation, a liaison shall be designated by the SWCD and the BDWMO. The parties shall keep each other continually informed, in writing, of any change in the designated liaison. At the time of execution of this Agreement, the following persons are the designated liaisons:

SWCD Liaison: Curt Coudron, or successor
Telephone: (651) 480-7774
Email: curt.coudron@co.dakota.mn.us

BDWMO Liaison: Daryl Jacobson, or successor
Telephone: (952) 895-4574
Email: daryl.jacobson@ci.burnsville.mn.us

15. DEFAULT: FORCE MAJEURE. Neither party shall be liable to the other party for any loss or damage resulting from a delay or failure to perform due to unforeseeable acts or events outside the defaulting party's reasonable control, providing the defaulting party gives notice to the other party as soon as possible. Acts and events may include acts of God, acts of terrorism, war, fire, flood, epidemic, acts of civil or military authority, and natural disasters.
16. DATA PRIVACY. All data created, collected, received, stored, used, maintained, or disseminated in the performance of this Agreement is subject to the requirements of the Minnesota Government Data Practices Act, Minn. Stat. ch. 13 and the Minnesota Rules implementing the Act now in force or hereafter adopted as well as the federal laws on data privacy.
17. RECORDS RETENTION AND AUDITS. Bonds, records, documents, papers, accounting procedures and practices, and other evidences relevant to this Agreement are subject to the examination, duplication, transcription and audit by each party to this Agreement and either the Legislative or State Auditor, pursuant to Minn. Stat. § 16C.05, Subd. 5. Such evidences are also subject to review by the Comptroller General of the United States, or a duly authorized representative, if federal funds are used

for any work under this Agreement. Each governmental unit agrees to maintain such evidences for a period of six years from the date services or payment were last provided or made or longer if any audit in progress requires a longer retention period.

18. **TERMINATION.** Either party may terminate this Agreement for cause by giving seven days' written notice or without cause by giving 30 days' written notice, of its intent to terminate, to the other party. Such notice to terminate for cause shall specify the circumstances warranting termination of this Agreement. Cause shall mean a material breach of this Agreement and any supplemental agreements or amendments thereto. Notice of Termination shall be made by certified mail or personal delivery to the authorized representative of the other party. Termination of this Agreement shall not discharge any liability, responsibility or other right of any party, which arises from the performance of or failure to adequately perform the terms of this Agreement prior to the effective date of termination.

Notwithstanding any provision of this Agreement to the contrary, either party may immediately terminate this Agreement if it does not obtain funding from the Minnesota Legislature, Minnesota Agencies, or other funding source, or if its funding cannot be continued at a level sufficient to allow payment of the amounts due under this Agreement.

19. **MODIFICATIONS.** Any alterations, variations, modifications, or waivers of the provisions of this Agreement shall only be valid when they have been reduced to writing and signed by the authorized representatives of the parties.
20. **MINNESOTA LAW TO GOVERN.** This Agreement shall be governed by and construed in accordance with the substantive and procedural laws of the State of Minnesota, without giving effect to the principles of conflict of laws. All proceedings related to this Agreement shall be venued in the County of Dakota, State of Minnesota.
21. **SEVERABILITY.** The provisions of this Agreement shall be deemed severable. If any part of this Agreement is rendered void, invalid, or unenforceable, such rendering shall not affect the validity and enforceability of the remainder of this Agreement unless the part or parts that are void, invalid or otherwise unenforceable shall substantially impair the value of the entire Agreement with respect to either party.
22. **FINAL AGREEMENT.** This Agreement is the final expression of the agreement of the parties and the complete and exclusive statement of the terms agreed upon, and shall supersede all prior negotiations, understandings or agreements. There are no representations, warranties, or stipulations, either oral or written, not contained in this Agreement.

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date(s) indicated below.

**BLACK DOG WATERSHED MANAGEMENT
ORGANIZATION**

By _____
Curtis Enestvedt, or successor, Chair
Date of Signature _____

Approved as to form:

/s/ Dain L. Olson 12/20/22
Assistant Dakota County Attorney/Date
KS-22-702
SWCD Board Action #22-228

**DAKOTA COUNTY SOIL AND WATER CONSERVATION
DISTRICT**

By Laura Zanmiller
Laura Zanmiller or successor, Chair
Date of Signature 12/28/22

2023 Work Plan and Budget
Black Dog Watershed Management Organization

Task	Calculation			Expense
Education and Outreach	Hours	Rate	Fees	
Black Dog WMO Website Updates and Maintenance	20	\$90.00	\$1,000.00	\$2,800.00
Host and maintain web site as required by BWSR to provide meeting information, plans, reports, grants or other information.	Fee is for web hosting			
Landscaping for Clean Water Workshops			\$12,600.00	\$12,600.00
Provide access to the Landscaping for Clean Water: Introduction Class Materials, Design Course Materials and Maintenance Workshop. <i>(Includes online registration, partner coordination, presentation creation and updates, creation of education and outreach materials, participant tracking, one-on-one design assistance. Some classes will be virtual in 2023)</i>	Introduction Class= \$3,600 Desing Course= \$7,200 Maintenance Workshop= \$1,800			
Education and Outreach Subtotal				\$15,400.00
Technical Assistance	Hours	Rate	Fees	
Landscaping for Clean Water - Project Installs			\$9,000.00	\$9,000.00
Technical assitance to homeowners including layout, mid-point and final inspections for raingardens, native plantings and shoreline stabilizations.	\$500 times 18 projects			
Technical Assistance Subtotal				\$9,000.00
Cost Share			Fees	
Landscaping for Clean Water - Landowner Grants			\$4,500.00	\$4,500.00
Provide cost share to landowners for projects including	\$250 times 18 projects			
Cost Share Subtotal				\$4,500.00
Total Agreement Not-to Exceed				\$28,900.00

Note: Additional items may be required of the SWCD during the workplan timeframe and individual budget amounts may change as work progresses. If proposed changes are to exceed the total agreed amount, this work plan can be amended as jointly approved by the BDWMO and SWCD.



BLACK DOG

Watershed Management Organization

2021 WATERSHED ANNUAL REPORT

Published April 2022

Our mission is . . .

To provide leadership in the management and stewardship of the water resources in northwestern Dakota County, Minnesota, through the cooperation of four cities and the involvement of local stakeholders.

Evaluating our Success

The BDWMO watershed management plan calls for the organization and its member cities to identify outcome-based goals for specific water bodies found within the watershed, and to meet annually to discuss progress toward these goals. The BDWMO uses the following tools to track progress toward goals:

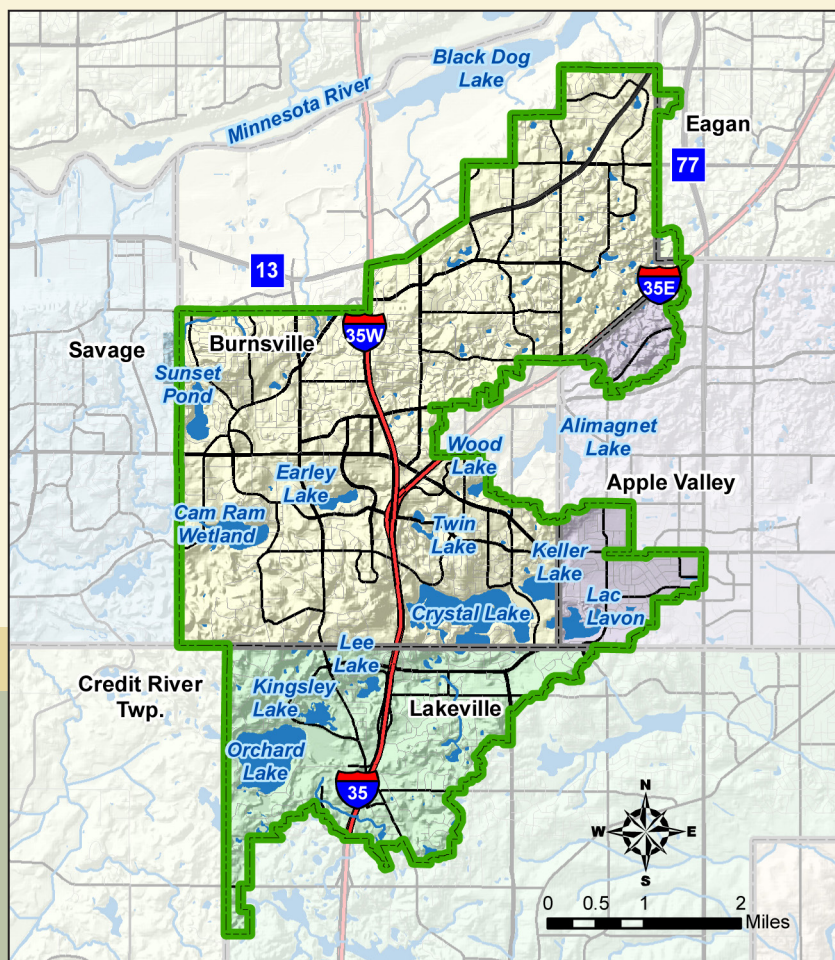
- **Trend Analysis**—The BDWMO collects water quality information to track water quality trends.
- **Performance Analysis**—The BDWMO will evaluate the member cities' implementation of maintenance plans, capital improvement projects, programs, and other items.
- **Habitat Quality Analysis**—The BDWMO collects habitat quality data to detect conditions that would trigger a need for management actions.

This annual report outlines the BDWMO's goals, progress toward those goals in 2021, and plans for 2022 and beyond.

What is the Black Dog Watershed Management Organization?

The Black Dog Watershed Management Organization (BDWMO) actively manages surface water, such as that found in lakes, streams, and wetlands, located in the Black Dog and Credit River watersheds within Dakota County. To effectively manage surface water, the BDWMO develops and implements plans that address water quality, responds to drainage issues that cross multiple municipal boundaries, and assists cities within the watershed to manage surface water runoff. The BDWMO is represented by commissioners who are appointed by the cities within the watershed, which include Burnsville, Lakeville, Apple Valley, and Eagan.

The total area of the Black Dog watershed is 17,500 acres; 70 percent of the watershed lies within the city of Burnsville, 21 percent of the area is within the city of Lakeville, 8 percent is within the city of Apple Valley, and 1 percent is within the city of Eagan.



In this Issue

- Watershed Management Plan Update page 2
- Update on Keller Lake Projects page 2
- Landscaping for Clean Water Projects page 3
- Crystal Lake Water Quality page 4
- Monitoring Programs pages 4–5
- 2021 Monitoring Results pages 5–7
- 2022 Income & Expenditures page 8

Watershed Management Plan Update

The BDWMO is in the process of updating its Watershed Management Plan. The Plan will establish the goals, policies, and activities for managing and protecting the lakes, ponds, creeks, streams, wetlands, drainages, and groundwater in the BDWMO from 2023 through 2032.

State law and rules govern the watershed planning process and require that watershed management plans be updated every 10 years. The BDWMO adopted its current Plan in 2012 and anticipates completing the updated Plan in 2022. The Plan update began with a stakeholder engagement process to collect initial input from cities, residents, and other partners.

The BDWMO commissioners considered stakeholder input and available scientific data as they prioritized resources and issues, revised goals, and updated policies and performance standards through 2021. During this process representatives from the member cities and state, regional, and county agencies provided input through a technical advisory committee (TAC). The TAC will continue to meet in 2022 and provide input as part of the process.

In 2022, the BDWMO commissioners will work with its partners to develop a collaborative implementation schedule that outlines activities planned over the next 10 years. With the implementation schedule defined, the updated draft Plan will be submitted to the Board of Water and Soil Resources and other Plan review authorities for formal 60-day review required per state statute and rule.

Update on Keller Lake Projects

Alum Treatment Complete

In 2019, the BDWMO received a BWSR Clean Water Fund grant for an alum treatment project to improve Keller Lake's water quality. The alum and sodium aluminate treatment was divided into two phases to increase the long-term effectiveness. Phase I occurred in June, 2019, and Phase II was completed in September, 2021 when 37,673 gallons of chemical precipitant were applied to Keller Lake (see page 5 for story on Keller Lake water quality monitoring). It is expected that the in-lake aluminum treatment will reduce the annual average TP (total phosphorus) load to Keller Lake by 80% or 186 lbs/yr. The in-lake aluminum application represents most of the remaining TP load reduction required to ensure that Keller Lake water quality can meet the MPCA's shallow lake standards on a consistent basis.

Electrofishing Survey

In 2021, the cities of Burnsville and Apple Valley arranged for a company, Carp Solutions, to conduct an electrofishing survey on Keller Lake. The survey was designed to assess populations of goldfish, which had previously been observed by staff and residents, but also included a general assessment of the overall fish community in the lake. To get a good assessment of the population, three separate days of electrofishing occurred, with timed transects conducted on each visit. This protocol is similar to assessing common carp populations. An average of 12 goldfish were caught per sampling visit. Goldfish averaged 14 inches in length and 2.37 lbs, but one goldfish as large as 5.4 lbs was caught.

Although the goldfish captured were quite large, the study results suggest that the overall population is at a moderate density level, which is likely below the population threshold that would cause significant ecological damage. Furthermore, no smaller goldfish were captured during the survey, indicating that successful recruitment of new goldfish into the population may be rare. The survey found

healthy levels of other native gamefish like largemouth bass and sunfish. These other fish species could then prey on goldfish eggs, larvae, and juveniles—predation that may be holding the goldfish population in check.

The cities plan to continue periodic fish surveys to assess the health of the overall fish community and any changes or trends in the goldfish population over time.



Photo credit: Caleb Ashling, City of Burnsville

Redwood Pond Expansion

A recent pond expansion at Redwood Park in Apple Valley will help improve the water quality at Keller Lake. Keller Lake is impaired for nutrients and the City of Apple Valley and the BDWMO have an active shared interest in improving water quality. The City of Apple Valley's project included the expanding the pond, modifying the existing outlet, removing contaminated sediment, and redesigning the existing park trail and features impacted by the pond modifications. Project funding was leveraged by the Clean Water Land and Legacy amendment in partnership with the BDWMO.



Photo credit: Nearmap

Landscaping for Clean Water—Clean Water Starts at Home

Since most land is privately owned, it is up to each individual landowner to do the right thing on their property to help keep water clean. The Landscaping for Clean Water program makes it easy for residents to turn their yards into a lush and lovely force for clean water rather than a contributor to water pollution.

Are you doing everything possible on your patch of lawn? Attend a Landscaping for Clean Water workshop to find out. Participants in the program attend design workshops to develop landscape plans for their own yards. These plans include creating native gardens, raingardens, or native shorelines that stabilize soil. These planting practices provide habitat for pollinators and birds, reduce watering and require no chemical inputs. On top of that, these practices help water soak into the ground rather than running off and delivering polluted stormwater into lakes, rivers and wetlands.

Who can get a grant?

Participants in the workshops can submit an application, project plan, and cost estimates to the Dakota County SWCD for grant funds of up to \$250.

Adjusting and Accommodating

Due to the ongoing Covid-19 pandemic in 2021, all Landscaping for Clean Water programming was held virtually. Four live virtual Introduction classes were held in the spring (March through May) and then pre-recorded so others could participate in the classes at their leisure. A total of 123 residents of the BDWMO participated in the Introduction classes through either a live virtual class or through the recordings.

A total of 45 participants took part in the virtual Design classes which consisted of a series of pre-recorded videos. Project materials for participants were made available online and an "Office Hours" program was used to provide virtual consultations to Design class participants. A total of 14 participants took advantage of these virtual consultations with

staff in 2021. Participants were thankful for the additional one-on-one design assistance.

In 2021, the Maintenance classes were split into three online sessions. Each workshop focused on maintenance for a given season (Spring, Summer and Fall) allowing for season specific information on how to maintain and promote the health, performance, and beauty of their garden. A total of 26 people registered for the Maintenance classes.

The 2022 Landscaping for Clean Water program will be held virtually, although the plan will be evaluated in early spring to see if hosting in-person classes/workshops becomes feasible. For more information, visit <https://dakotaswcd.org/services/landscaping-for-clean-water/>.



**15 YEARS OF CLEAN WATER
ACCOMPLISHMENTS**
within the BDWMO (2007-2021)
Workshop Participants — 1,350
Projects Completed — 175

Landscaping for Clean Water is one type of cost-sharing program offered by the Dakota County SWCD.
For more information, call 651-480-7777 or go to <https://dakotaswcd.org/services/landscaping-for-clean-water/>.

Conservation in Action: Crystal Lake Shoreline Stabilization



Crystal Lake has been a major water quality success story, having been removed from the State's impaired waters list in 2018. A developing erosion issue was detected on the north shore of Crystal Lake around Tyacke Park. To prevent it from getting worse, the City of Burnsville and Dakota County Soil and Water Conservation District (SWCD) developed a plan and undertook a large shoreline stabilization project on the lake in the fall of 2021. To provide the best habitat and keep the natural aesthetics of the parkland, the plan utilized natural materials rather than the more intrusive rock rip rap.

Supported by a Conservation Initiative Funding grant from the SWCD, crews started by installing more than 980 feet of coconut fiber (coir) logs to buffer against the wave action. Invasive buckthorn was removed along the shoreline and native grasses and wildflowers were planted in its place. The deep-rooted native plants will help stabilize the shoreline long term while also providing valuable habitat to pollinators and other wildlife.

Crystal Lake in the Clear

The BDWMO is pleased to report that Crystal Lake continues to have good water quality. The 2021 summer-average Secchi disc transparency in Crystal Lake was 2.5 meters (8.1 feet), which is slightly better than it was in 2020, and better than the MPCA deep-lake water quality standard of 1.4 meters. The water clarity in Crystal Lake has been trending towards better water quality over the past 10-year period (statistically significant trend). The last time summer-average Secchi disc transparency for Crystal Lake was 2.5 meters or better was 1992. The 2021 summer average of total phosphorus (the nutrient that drives algal growth) was 20 µg/L, one of the best on record for the lake, and better than the MPCA's deep lake standard (40 µg/L). The summer-average chlorophyll-a (a measure of algal abundance) was 9 µg/L, which ties 2018 for the best on record for the lake, and better than the MPCA's deep lake standard (14 µg/L). During the period of 2008 to 2011, the BDWMO, along with its member communities, the Minnesota Pollution Control Agency (MPCA), and other state and local agencies, developed a Total Maximum Daily Load (TMDL) report for Crystal Lake. The TMDL was required because the MPCA added Crystal Lake to its impaired waters list in 2002. Two other lakes in the Crystal Lake watershed—Keller Lake and Lee Lake—were also part of the TMDL report. The TMDL established phosphorus load allocations that would achieve water quality goals for Crystal, Keller, and Lee Lakes. The BDWMO member cities continue to implement water quality improvement measures with the goal of improving water quality in Crystal, Keller and Lee Lakes. Additional



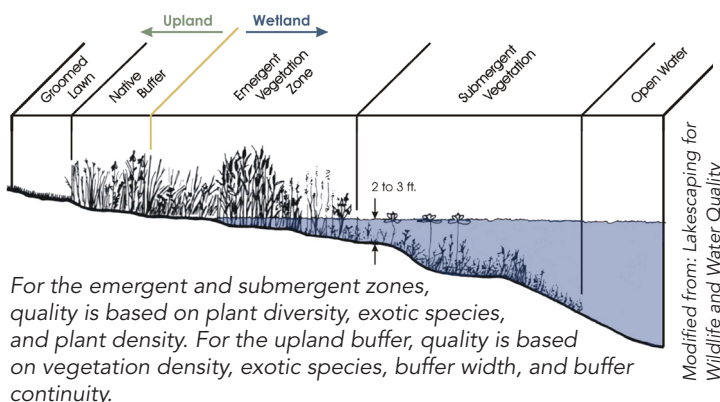
information regarding the Three-Lake TMDL can be found on page 2 of the BDWMO's 2011 Watershed Annual Report.

Aquatic plant surveys were performed in May and July of 2021. The May 2021 survey found 11 submerged plant species and one floating-leaf species, with curly-leaf pondweed as the dominant plant. The July 2021 survey found 15 submerged plant species and one floating-leaf species, with coontail as the dominant plant. Eurasian watermilfoil was found during both surveys at numerous sites. Harvesting of curly-leaf pondweed was conducted in Crystal Lake in 2021.

The BDWMO will continue to monitor the water quality of Crystal Lake in 2022, including regularly-scheduled management level monitoring and habitat monitoring.

Habitat Monitoring Program

Since 2003, the BDWMO has implemented a program for monitoring the wildlife and fish habitat quality of strategic water resources in the watershed, including biological and physical indicators, such as upland and aquatic vegetation, buffer zones, erosion, sedimentation, and the presence of non-native exotic species. The program also recommends management actions based upon monitoring results.



For the emergent and submergent zones, quality is based on plant diversity, exotic species, and plant density. For the upland buffer, quality is based on vegetation density, exotic species, buffer width, and buffer continuity.

In 2021, the BDWMO monitored the habitat quality of Kingsley Lake. Monitoring included transect, plot, and meandering surveys. Photographs were taken to document

conditions. Analysis and reporting of the monitoring data includes a floristic quality assessment and a four-tiered rating system (poor, moderate, high, and excellent). Private versus public ownership was identified along the entire shoreline. The survey results, along with parcel data, were used to identify possible locations for restoration and preservation.

Habitat monitoring results showed that Kingsley Lake's submergent zone was rated moderate, but both the emergent and upland buffer zones were rated high. In one specific location in the western portion of Kingsley Lake, curly-leaf pondweed, a dominant species found some years in the lake, was present. Dense coverage of native submergent vegetation, including Robbin's pondweed and largeleaf pondweed in Kingsley Lake helps prevent the spread of curly-leaf pondweed.

See page 7 for additional Kingsley Lake habitat monitoring results. See www.blackdogwmo.org for the full report.

The member cities have provided lakeshore owners with shoreline restoration information since 2004 and continually promote and encourage lakeshore property owners each year to take advantage of the Dakota County SWCD Landscaping for Clean Water shoreline restoration program. (See page 3 for more about this program.)

Water Quality Monitoring Program

The BDWMO and member cities continued to monitor several of its lakes during 2021 through the Metropolitan Council's Citizen-Assisted Monitoring Program (CAMP) to detect any water quality changes that would require management action by the WMO. In addition, the BDWMO conducted more detailed monitoring on Crystal Lake (see page 4). The monitoring focused on three water quality indicators—total phosphorus and chlorophyll-a concentrations, plus Secchi disc transparency. All three variables correlate strongly to the open-water nuisance conditions of lakes (i.e., algal blooms).

Long-term monitoring is important because lakes can change from year to year. Only when several years of data are compiled do trends become apparent. Because the MPCA periodically evaluates water quality data from the most recent ten-year period to determine if a lake violates applicable water quality standards, the WMO has adopted the same time convention for conducting its annual trend analyses. Graphs on this page and subsequent pages show historic trends in water quality.

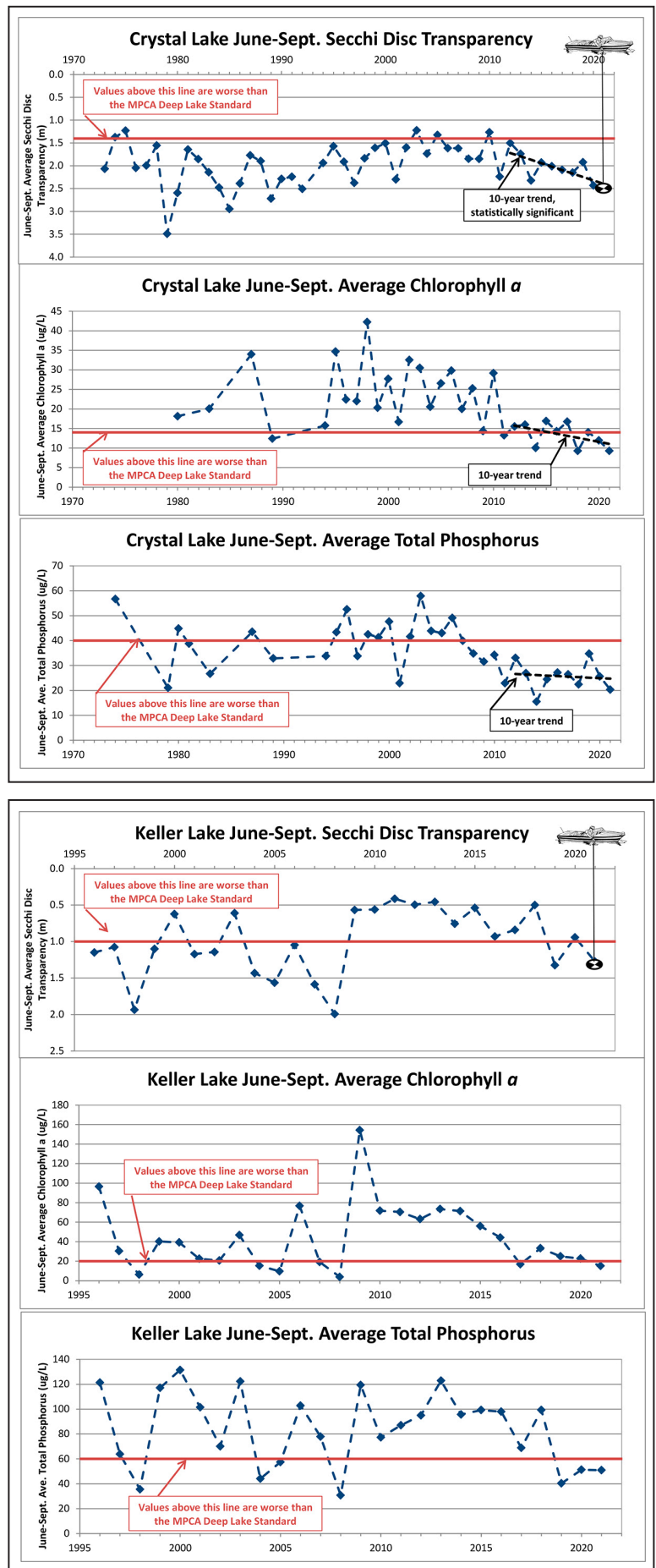
Crystal Lake (Burnsville & Lakeville)

Water Quality Monitoring—In 2021, the BDWMO performed more detailed management level monitoring on the lake (see story on page 4).

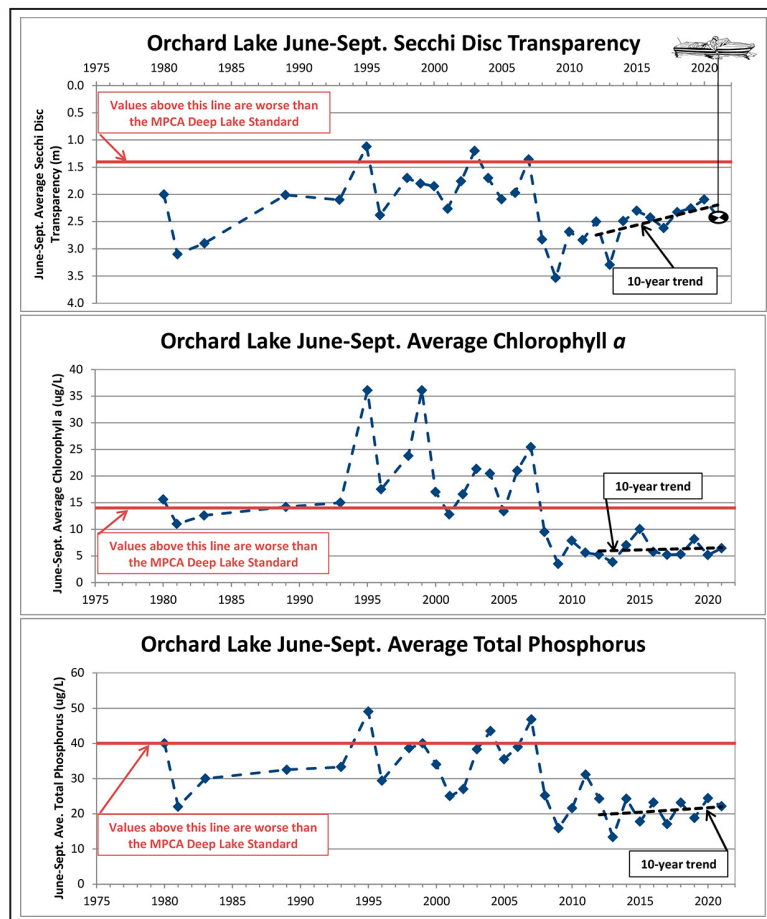
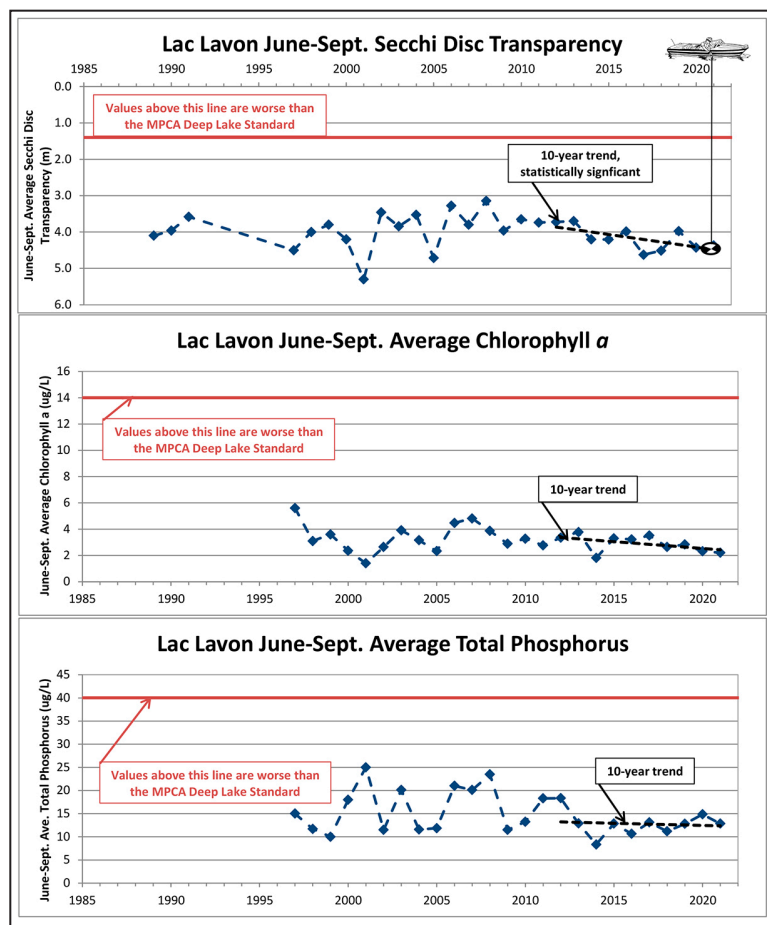
Keller Lake (Burnsville & Apple Valley)

Water Quality Monitoring—An alum and sodium aluminate treatment was conducted on Keller Lake in Spring 2019 and Spring 2021, resulting in improved water quality in recent years (see details on page 2). The 2021 Secchi disc transparency summer average was 1.3 meters (4.2 feet), which is better than the MPCA's shallow lake standard of 1.0 meter (3.3 feet). The summer-average total phosphorus (51 $\mu\text{g/L}$) was also better than the MPCA's shallow lake standard of 60 $\mu\text{g/L}$. Summer averages of total phosphorus had been consistently worse than the MPCA standard every year for the period 2009-2018, before the alum and sodium aluminate treatment of the lake. The 2021 summer-average of chlorophyll-a (15 $\mu\text{g/L}$) was also better than the MPCA's shallow lake standard of 20 $\mu\text{g/L}$.

Trend analyses were not completed for Keller Lake because of the alum and sodium aluminate treatments that were conducted in 2019 and 2021. The three-lake TMDL study and implementation plan identifies the water quality improvement measures needed to achieve the BDWMO and MPCA goals for the lake. The BDWMO will continue to monitor the water quality of Keller Lake in 2022. See page 2 for updates on several Keller Lake projects.



2021 Monitoring Results



Lac Lavon (Apple Valley & Burnsville)

Water Quality Monitoring—Lac Lavon continued to experience excellent water quality in 2021. The 2021 summer-average Secchi disc transparency was 4.4 meters (14 feet), and is much better than the MPCA deep-lake water quality standard of 1.4 meters. The 2021 summer averages of total phosphorus (13 µg/L) and chlorophyll-a (2.2 µg/L) further indicate excellent water quality for Lac Lavon. Summer averages of Secchi disc transparency show a statistically significant improving trend for the most recent 10-year period of 2012-2021. There was no significant trend in summer averages of total phosphorus or chlorophyll-a for the same period. The BDWMO will continue to monitor the water quality of Lac Lavon in 2022, including regularly-scheduled management level monitoring and habitat monitoring.

Water Quality Improvement Project

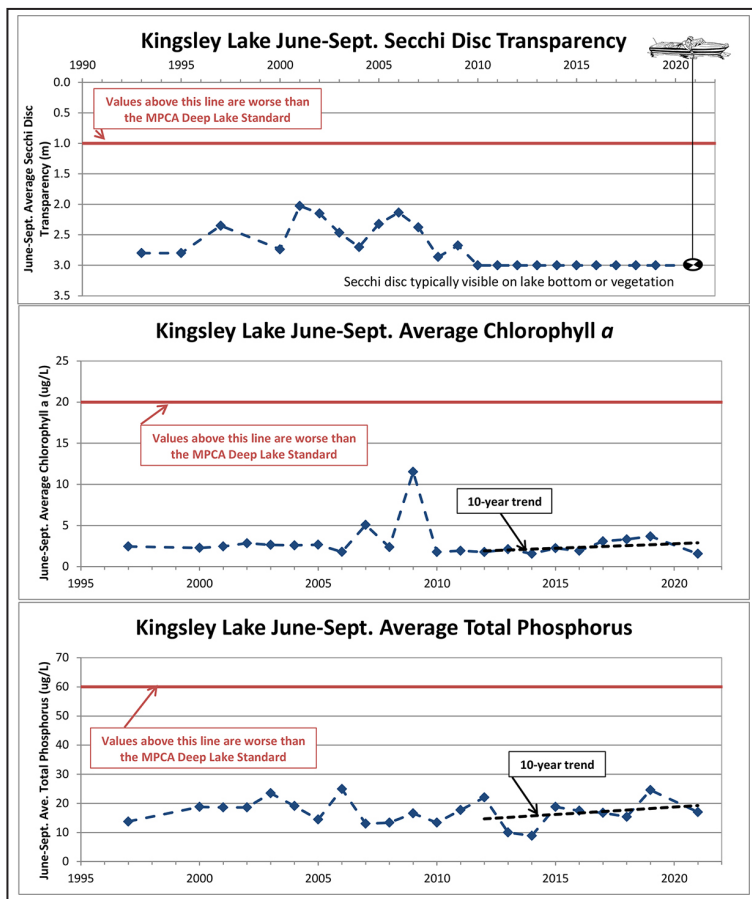
The City of Apple Valley leveraged additional BWSR Clean Water Fund dollars to design and construct a new raingarden in the Lac Lavon Park parking lot. Currently, stormwater runoff flows off the parking lot, down a slope, ultimately reaching Lac Lavon. The raingarden, featuring native plants, will serve as a demonstration project for the improvement of water quality within the watershed.



Orchard Lake (Lakeville)

Water Quality Monitoring—Orchard Lake had improved water quality in 2021 compared to the previous three years, but has generally experienced declining water clarity over the past 12 years. The 2021 summer average Secchi disc transparency was 2.5 meters (8.1 feet), which is better than the MPCA deep-lake water quality standard of 1.4 meters. The 2021 summer-averages of total phosphorus (21 µg/L) and chlorophyll-a (6 µg/L) were better than the MPCA's deep-lake water quality standards. There were no statistically significant trends in water quality for the most recent 10-yr period. Summer averages of water quality in Orchard Lake have been consistently better than the water quality standards for the last fourteen years (2008-2021). The BDWMO will continue to monitor the water quality of Orchard Lake in 2022.

2021 Monitoring Results

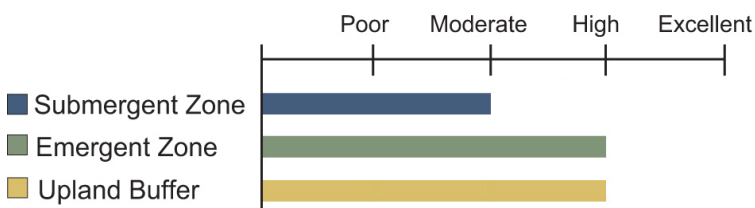


Kingsley Lake (Lakeville)

Water Quality Monitoring—Water quality monitoring data from 2021 show continued excellent water quality in Kingsley Lake. Water is often clear enough that the Secchi disc used to measure transparency can still be seen when resting on the bottom of the lake.* The 2021 summer averages of total phosphorus (17 µg/L) and chlorophyll-a (2 µg/L) concentrations were better than in 2019, and similar to years 2015–2018. Water quality was not monitored in Kingsley Lake in 2020, but began again in 2021. The 2021 summer averages of total phosphorus and chlorophyll-a were considerably better than the MPCA’s shallow lake standards, and have consistently been below the water quality standards since 1997. The BDWMO will continue to monitor the water quality of Kingsley Lake in 2022. * Secchi disc readings in Kingsley Lake are difficult because lake vegetation obscures the Secchi disc, giving false measurements; therefore, there is no trend line in the graph above.

Kingsley Lake Habitat Monitoring Results for 2021

As mentioned in the article on page 4, habitat monitoring was conducted in 2021 on Kingsley Lake. The BDWMO made the following quality ratings, based on the monitoring results:



Submergent zone quality rating = Moderate

Rating based on averaging four criteria:

1. excellent total number of native species (19)
2. moderate average native plant density (1.7)
3. moderate rating for average exotic species density (1.5)
4. moderate coefficient of conservatism value (mean C-value) (5.5)

Curly-leaf pondweed, a dominant species found some years in Kingsley Lake, was present in only one specific location in the western portion of Kingsley Lake. The density increased slightly between 2016 and 2021. Dense coverage of native submergent vegetation, including Robbin’s pondweed and largeleaf pondweed in Kingsley Lake helps prevent the spread of curly-leaf pondweed. A dense growth of filamentous and nostoc algae were present in the southeast lobe of the lake in 2021.

The BDWMO recommends continued monitoring and consideration of control measures if densities and locations increase to an extent of concern.

Emergent vegetation zone quality rating = High

Rating based on averaging four criteria:

1. excellent number of native wetland plant species (45)
2. high rating for % coverage of exotic species (26-50%)
3. a moderate mean C-value rating (4.0)
4. high rating for total vegetative cover (51-75%)

Non-native species including narrowleaf and hybrid cattail, purple loosestrife, and yellow iris are found in the vegetated emergent zone. Floating mats in the northeastern portion of Kingsley Lake contain diverse native vegetation including sundew, sedges, rushes, burr-reeds, ferns, and bog birch, which provide habitat for green frogs, painted turtles, egrets, green herons, wood ducks, loons, and great blue herons.

The BDWMO recommends continued control and management of purple loosestrife and yellow iris and protection of the floating mat habitat.

Upland buffer zone quality rating = High

- 67 native species and 28 exotic species observed.
- Exotic plant species 15-40% of upland vegetative cover. The mean C-value rating is 2.1 (poor).
- Upland buffer within portions of the shoreline is wide, providing wildlife habitat and shoreline protection. Though some areas with bare soil on steep slopes could cause erosion and sedimentation into the lake and should be vegetated with naturalized vegetation. Other areas with turf grass, gravel, and managed plantings with bare soil could be vegetated with native grasses and wildflowers. The BDWMO recommends control of non-native common buckthorn, Russian olive, Chinese silver grass, and Siberian elm
- The BDWMO recommends installation of a pre-treatment system such as a rain garden, pervious pavement, or sediment trap to collect sediment from a parking lot prior to discharge into the lake.
- Lakeshore property owners are encouraged to apply for funds (see page 3) to assist with implementation of the BDWMO recommendations.



Black Dog Watershed Management Organization

Board of Commissioners

Representing Burnsville:

Curtis Enestvedt, Chair
(serving since 2014)
Mike Hughes, Vice Chair
(serving since 2008)
Tom Harmening, Commissioner
(serving since 2002)
Frank Boyce, Alternate
(serving since 2021)

Representing Apple Valley and Eagan:

Rollie Greeno, Commissioner
(serving since 2018)
Greg Helms, Alternate
(serving since 2011)

Representing Lakeville:

Scott Thureen, Secretary/Treasurer
(serving since 2008)
Natalie Walker, Alternate
(serving since 2020)

Engineering Consultant:

Karen Chandler, P.E., Barr Engineering Co.

Legal Consultant:

Joel Jamnik, Campbell Knutson, P.A.

Regular board meetings...

are held at 5:00 p.m. on the third Wednesday of the month at the Burnsville Maintenance Facility at 13713 Frontier Court.

For more information, please contact:

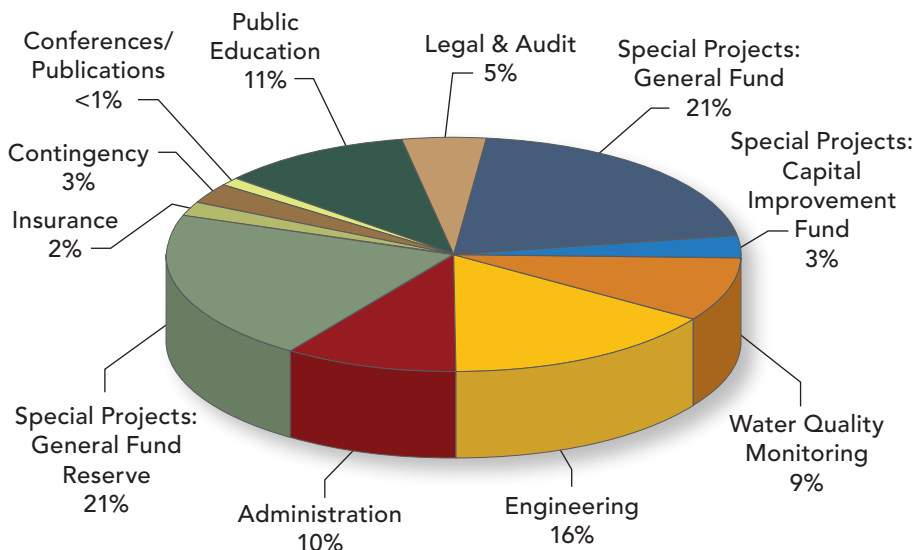
Daryl Jacobson, Administrator
Black Dog WMO
City of Burnsville
13713 Frontier Court
Burnsville, MN 55337
Telephone: 952-895-4574
Fax: 952-895-4531

Website: www.blackdogwmo.org

2022 Budget

Engineering	\$31,000
Legal and Audit	\$10,500
Administrative Services	\$19,000
Public Education	\$21,850
Insurance	\$3,000
Special Projects – General Fund	\$40,600
Special Projects – Capital Improvement Fund	\$5,000
Special Projects – General Fund Reserve	\$40,000
Conference/Publications	\$500
Water Quality Monitoring	\$17,200
Contingency	\$5,000

Total Expenditures \$193,650



2022 Income

Member Contributions	\$153,000
Interest	\$40

Total Income \$153,040

