



AGENDA

Wednesday, October 20, 2021 at 5:00pm

Burnsville Maintenance Facility Conference Room
13713 Frontier Court, Burnsville MN 55337

COMMISSIONERS:

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

- I. Approval of Agenda
- II. Approval of Minutes – September 15, 2021
- III. Approval of Accounts Payable
- IV. Review Budget Performance Reports
- V. Approve Modifications to the Black Dog WMO Monitoring Program
- VI. Miscellaneous
- VII. Adjournment

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Agenda Background October 20, 2021

I. Approval of Agenda

Agenda enclosed.

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

II. Approval of Minutes from the September 15, 2021 Meeting

Minutes enclosed.

Action Requested: A motion be considered to approve the Minutes of the September 15, 2021 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 Modifications to the Black Dog WMO Monitoring Program

Staff held a meeting with the member cities on October 11th to discuss changes to the monitoring program. Barr Engineering prepared a memo that is included in the packet. The memo outlines the discussion and recommended changes that were discussed in the meeting. Staff will go over the memo at the meeting.

Action requested: A motion to approve the recommended changes to the Black Dog WMO monitoring program.

VI. Miscellaneous

DRAFT

Meeting Minutes September 15, 2021

MEMBERS PRESENT

Curt Enestvedt, Chair
Mike Hughes, Vice Chair
Scott Thureen, Secretary/Treasurer
Frank Boyce, Alternate (*voting*)
Greg Helms, Alternate (*voting*)

MEMBERS ABSENT

Rollie Greeno
Natalie Walker, Alternate
Tom Harmening

OTHERS PRESENT

Karen Chandler – Barr Engineering
Greg Williams – Barr Engineering
Greg Wilson – Barr Engineering
Jessica Schaum – City of Apple Valley
Joel Jamnik, Campbell Knutson
Ann Messerschmidt – City of Lakeville
Curt Coudron – Dakota County Soil and Water Conservation District
Daryl Jacobson – BDWMO Administrator
Vickie Martin – BDWMO Secretary

Curt Enestvedt, Chair, called the September 15, 2021, meeting to order at 5:00pm.

I. Approval of Agenda

Motion by Scott Thureen, second by Mike Hughes, to approve the September 15, 2021 Agenda as presented.

Ayes – Enestvedt, Helms, Hughes, Thureen, Boyce
Nays – None

Motion Carried Unanimously

II. Approval of Minutes from the August 18, 2021 Meeting

Motion by Mike Hughes, second by Greg Helms, to approve the August 18, 2021 Minutes as presented.

Ayes – Enestvedt, Helms, Hughes, Thureen, Boyce
Nays – None

Motion Carried Unanimously

III. Approval of Accounts Payable

Motion by Greg Helms, second by Scott Thureen, to approve payments to Barr Engineering in the amount of \$11,255.34 for services from July 31, 2021 through August 27, 2021; and, to League of MN Cities Insurance Trust in the amount of \$2,701.00 for annual premium July 15, 2021 through July 15, 2022.

Ayes – Enestvedt, Helms, Hughes, Thureen, Boyce

Nays – None

Motion Carried Unanimously

IV. Review Budget Performance Reports

Daryl Jacobson, BDWMO Administrator – 2021 invoices were sent to member cities.

No Formal Action Required

V. Discuss Results of Technical Advisory Committee Meeting

Staff held a third meeting with the Black Dog WMO Technical Advisory Committee (TAC), and a separate meeting with the BWSR Board Conservationist to discuss draft Plan goals. Enclosed in the packet is a memo summarizing the TAC meeting and items that were discussed related to the Plan update. Greg Williams from Barr Engineering reviewed the memo at the meeting. A question was raised regarding administration enforcement and potential examples of wording for policy.

Motion by Scott Thureen, second by Greg Helms, to approve draft goals as discussed.

Ayes – Enestvedt, Helms, Hughes, Thureen, Boyce

Nays – None

Motion Carried Unanimously

VI. Discuss Modifications to BDWMO Monitoring Program

Staff held a third meeting with the TAC to discuss modifications to the BDWMO monitoring program. Enclosed in the packet is a memo summarizing the meeting and items discussed. Greg Williams from Barr Engineering reviewed the memo at the meeting.

As a result of the discussion, Barr Engineering will compile two options for modification to the BDWMO monitoring program and present to the member cities. Their recommendation will then be brought forth to the BDWMO Commission for a motion to approve.

No Formal Action Required

VII. Approve a Contract with HAB Aquatic Solutions for the Alum Treatment on Keller Lake

Barr Engineering solicited quotes for this project and received two back. They were as follows:

\$110,658 – HAB Aquatic Solutions

\$174,410 – Solitude Lake Management

HAB Aquatic Solutions was the low quote and staff recommends awarding them the contract.

Motion by Scott Thureen, second by Mike Hughes, to approve a contract with HAB Aquatic Solutions in the amount of \$110,658 for the Keller Lake alum treatment.

Ayes – Enestvedt, Helms, Hughes, Thureen, Boyce

Nays – None

Motion Carried Unanimously

VIII. Approve a \$7,000 increase in Barr's 2021 Budget for the Keller Lake Alum Treatment

Grant reporting and administration will need to be completed in 2021 and it was originally thought it could be completed in 2022 and \$5,000 was included in the 2022 budget for that work. Also, low water levels may require the alum treatment to be completed over 2-3 days instead of 1. This would require more onsite time by Barr Engineering and the additional time is estimated at \$2,000.

Motion by Greg Helms, second by Mike Hughes, to approve \$7,000 increase in the 2021 Budget to cover additional costs for the alum treatment.

Ayes – Enestvedt, Helms, Hughes, Thureen, Boyce

Nays – None

Motion Carried Unanimously

IX. Miscellaneous

1. Next BDWMO meeting will be October 20th. Mike Hughes will be acting Chair in Curt Enestvedt's absence.

X. Adjournment

Motion by Scott Thureen, second by Mike Hughes, to adjourn at 5:49pm.

Ayes – Enestvedt, Helms, Hughes, Thureen, Boyce

Nays – None

Motion Carried Unanimously



Accounts Payable - October 20, 2021 Meeting

Barr Engineering - Services from August 28, 2021 through October 1, 2021

Engineering	\$	2,298.62
Special Projects General Fund - Crystal Lake Mgmt Level Monitoring	\$	2,677.06
Special Projects Capital Improvement Fund - Keller Lake Alum Treatment	\$	6,832.00
Special Projects General Fund Reserve - Watershed Mgmt Plan Update	\$	2,591.50
	\$	14,399.18

Campbell Knutson

General Services - 8/27/21 -8/18/21	\$	238.00
General Services- 9/13/21 -9/15/21	\$	221.00
	\$	459.00

HAB Aquatic Solutions

Complete Service 2021 Aluminum Treatment for Keller Lake Project #21-902	\$	110,658.00
	\$	110,658.00

Accounts Payable Total \$ 125,516.18

resourceful. naturally.
engineering and environmental consultants



October 12, 2021

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 August 28, 2021 through October 1, 2021

TOTAL PAYABLE THIS INVOICE:	\$ 14,399.18
Allocation:	
Engineering	\$ 2,298.62
Special Projects General Fund	
• Crystal Lk Monitoring	\$ 2,677.06
Special Projects Capital Improvement Fund	
• Keller Lk Alum Treatment	\$ 6,832.00
Special Projects General Fund Reserve	
• Watershed Mgmt Plan Update	\$ 2,591.50

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

Karen L. Chandler

Karen L. Chandler
Vice President

OK
Daryl Jacobson
10-12-21

BUDGET SUMMARY - 2021 FY
Black Dog Watershed Management Commission
through October 1, 2021

Work Description	Pre-2021 Costs	Barr Budget			Current Invoice	Spent This Year	Balance
		Brought Forward	Current Year	Total Barr Budget			
Engineering	-----	0.00	31,000.00	31,000.00	2,298.62	19,275.56	11,724.44
Special Projects: General Fund							
<i>Reporting on Orchard Lk 2020 Water Quality Monitoring</i>	-----	0.00	4,500.00	4,500.00	0.00	4,126.00	374.00
<i>Crystal Lake 2021 Mgmt Level Monitoring</i>			18,800.00	18,800.00	2,677.06	13,033.76	5,766.24
Subtotal -- Special Projects: General Fund	-----	0.00	23,300.00	23,300.00	2,677.06	17,159.76	6,140.24
Special Projects: Capital Improvement Fund							
<i>Keller Lake Alum Treatment¹</i>			17,000.00	17,000.00	6,832.00	13,363.50	3,636.50
Subtotal -- Special Projects: Capital Improvement Fund	-----	0.00	17,000.00	17,000.00	6,832.00	13,363.50	3,636.50
Special Projects: General Fund Reserve							
<i>Watershed Management Plan Update²</i>	10,905.00		70,000.00	70,000.00	2,591.50	23,168.50	46,831.50
Subtotal -- Special Projects: General Fund Reserve	-----	0.00	70,000.00	70,000.00	2,591.50	23,168.50	46,831.50
Water Quality Monitoring							
<i>Reporting on 2020 Keller Lake Habitat Monitoring</i>	-----	0.00	8,000.00	8,000.00	0.00	7,983.50	16.50
<i>2021 Kingsley Lake Habitat Monitoring</i>		0.00	3,300.00	3,300.00	0.00	3,696.14	(396.14)
<i>Update Trend Analyses</i>	-----	0.00	2,000.00	2,000.00	0.00	2,000.00	0.00
Subtotal -- W.Q. Monitoring	-----	0.00	13,300.00	13,300.00	0.00	13,679.64	(379.64)
Public Education							
<i>Watershed Annual Report</i>	-----	0.00	4,300.00	4,300.00	0.00	3,519.00	781.00
<i>Annual Activity Report (BWWSR)</i>	-----	0.00	2,000.00	2,000.00	0.00	1,461.50	538.50
Subtotal -- Public Education	-----	0.00	6,300.00	6,300.00	0.00	4,980.50	1,319.50
Total Services	-----	0.00	160,900.00	160,900.00	14,399.18	91,627.46	69,272.54

Notes:

¹ Keller Lake Alum Treatment 2021 budget increased from \$10,000 to \$17,000, per authorization at 9/15/2021 meeting

² 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



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

October 12, 2021
Invoice No: 23190374.21 - 9

Total this Invoice	\$2,298.62
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Regarding: BDWMO 2021 Engineering Services

Professional Services from August 28, 2021 to October 1, 2021

Job:	2021	Engineering Services
Task:	001	Attend BDWMO Meetings

Labor Charges

	Hours	Rate	Amount
Principal			
Chandler, Karen	1.80	185.00	333.00
Engineer / Scientist / Specialist IV			
Wilson, Gregory	2.50	175.00	437.50
Engineer / Scientist / Specialist III			
Williams, Sterling	2.00	150.00	300.00
	6.30		1,070.50
Subtotal Labor			1,070.50

Expense Charges

Travel			
9/15/2021	Wilson, Gregory	Mileage	16.80
9/15/2021	Chandler, Karen	Mileage	12.32
Subtotal Expenses			29.12

Task Subtotal	\$1,099.62
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Task:	002	Miscellaneous Consulting
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Labor Charges

	Hours	Rate	Amount
Principal			
Chandler, Karen	5.40	185.00	999.00
Support Personnel II			
Nypan, Nyssa	2.00	100.00	200.00
	7.40		1,199.00
Subtotal Labor			1,199.00

Task Subtotal	\$1,199.00
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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.

Project	23190374.21	2021 Engineering Services	Invoice	9
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Job Subtotal **\$2,298.62**

Total this Invoice **\$2,298.62**

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	2,298.62	21,957.44	24,256.06	21,957.44	2,298.62

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

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

October 12, 2021
Invoice No: 23190375.21 - 9

Total this Invoice	\$2,677.06
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Regarding: Management Level Water Quality Monitoring

Professional Services from August 28, 2021 to October 1, 2021

Job:	CRY	Crystal Lk 2021 Water Quality Monitoring
Task:	100	Monitoring Data Mgmt & Proj Mgmt

Labor Charges

	Hours	Rate	Amount
Engineer / Scientist / Specialist III			
Menken, Kevin	.30	125.00	37.50
Olson, Terri	.60	150.00	90.00
Technician II			
Novack, John	4.90	105.00	514.50
Technician I			
Melmer, David	8.70	90.00	783.00
Schneider, Anna	.20	75.00	15.00
Support Personnel II			
Treanor, Margaret	2.60	115.00	299.00
	17.30		1,739.00
Subtotal Labor			1,739.00

Subconsultant Charges

Subconsultants			
8/25/2021	Pace Analytical Services Inc		217.80
9/9/2021	Pace Analytical Services Inc		217.80
9/24/2021	Pace Analytical Services Inc		217.80
Subtotal Subconsultant			653.40

Unit Charges

Barr Owned Vehicle Use	1.0 day @ 90.00	90.00
Canoe	1.0 day @ 32.00	32.00
Ice (per bag)	4.0 ea @ 2.50	10.00
Kemmerer Vertical Bottle Sampler	1.0 day @ 33.50	33.50
Vehicle (Mileage)	61.0 miles @ 0.56	34.16
Water Quality Meter (YSI 556 MPS)	1.0 day @ 85.00	85.00
Subtotal Units		284.66

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.

Project	23190375.21	Management Level Water Quality Monitorin	Invoice	9
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Task Subtotal **\$2,677.06**

Job Subtotal **\$2,677.06**

Total this Invoice **\$2,677.06**

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	2,677.06	14,482.70	17,159.76	14,482.70	2,677.06

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.



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

October 12, 2021
Invoice No: 23190375.98 - 21

Total this Invoice	\$6,832.00
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Regarding: Keller Lake Alum Treatment

Professional Services from August 28, 2021 to October 1, 2021

Job:	002	Feasibility & implementation planning
Task:	006	Contract documents

Labor Charges

	Hours	Rate	Amount
Engineer / Scientist / Specialist IV			
Wilson, Gregory	7.40	175.00	1,295.00
	7.40		1,295.00
Subtotal Labor			1,295.00
		Task Subtotal	\$1,295.00

Task:	007	Admin/permitting/oversight
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Labor Charges

	Hours	Rate	Amount
Engineer / Scientist / Specialist IV			
Wilson, Gregory	14.70	175.00	2,572.50
Technician I			
Fruit, Chad	22.20	90.00	1,998.00
Support Personnel II			
Hutson, Jeremy	.70	115.00	80.50
	37.60		4,651.00
Subtotal Labor			4,651.00

Expense Charges

Travel			
9/20/2021	Wilson, Gregory	Mileage	19.60
Subtotal Expenses			19.60

Unit Charges

Barr Owned Vehicle Use	3.0 days @ 90.00	270.00
Canoe	3.0 days @ 32.00	96.00
Vehicle (Mileage)	90.0 miles @ 0.56	50.40

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.

Project	23190375.98	Keller Lake Alum Treatment	Invoice	21
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Water Quality Meter (YSI ProDSS)	3.0 days @ 150.00	450.00	
Subtotal Units			866.40
	Task Subtotal		\$5,537.00
	Job Subtotal		\$6,832.00
	Total this Invoice		\$6,832.00

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	6,832.00	44,214.97	51,046.97	44,214.97	6,832.00

Thank you in advance for the prompt processing of this invoice. If you have any questions, please contact Greg Wilson, your Barr project manager, at (952) 832-2672 or email at gwilson@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

October 12, 2021
Invoice No: 23191455.00 - 10

Total this Invoice	\$2,591.50
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Regarding: BDWMO 2022 Watershed Management Plan

Professional Services from August 28, 2021 to October 1, 2021

Job:	100	Stakeholder Engagement
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Task:	004	TAC meetings
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Labor Charges

	Hours	Rate	Amount
Principal			
Chandler, Karen	2.60	185.00	481.00
Engineer / Scientist / Specialist III			
Williams, Sterling	10.00	150.00	1,500.00
	12.60		1,981.00
Subtotal Labor			1,981.00
		Task Subtotal	\$1,981.00
		Job Subtotal	\$1,981.00

Job:	200	Draft Plan Development
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Task:	002	Issues and Goals
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Labor Charges

	Hours	Rate	Amount
Principal			
Chandler, Karen	2.00	185.00	370.00
	2.00		370.00
Subtotal Labor			370.00
		Task Subtotal	\$370.00

Task:	004	Targeted Implementation
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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.

Project	23191455.00	BDWMO 2022 Watershed Management Plan	Invoice	10
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Labor Charges

	Hours	Rate	Amount	
Principal				
Chandler, Karen	1.30	185.00	240.50	
	1.30		240.50	
Subtotal Labor				240.50
		Task Subtotal		\$240.50
		Job Subtotal		\$610.50
		Total this Invoice		\$2,591.50

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	2,591.50	21,511.00	24,102.50	21,511.00	2,591.50

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.

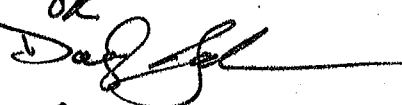
CAMPBELL KNUTSON
Professional Association
Attorneys at Law
Federal Tax I.D. #41-1562130
Grand Oak Office Center I
860 Blue Gentian Road, Suite 290
Eagan, Minnesota 55121
(651) 452-5000

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

Page: 1
August 31, 2021
Account # 602-0000G
366

RE: GENERAL SERVICES
RENDERED TO DATE:

			HOURS	
08/17/2021	JJJ	Review Board packet.	0.40	68.00
08/18/2021	JJJ	Attend Board meeting.	1.00	170.00
		AMOUNT DUE	1.40	238.00
		TOTAL CURRENT WORK		238.00
		PREVIOUS BALANCE		\$425.00
07/27/2021		Payment - thank you		-425.00
		TOTAL AMOUNT DUE		<u>\$238.00</u>

OK

9-24-21

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.

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
September 30, 2021
Account # 602-0000G
367

RE: GENERAL SERVICES
RENDERED TO DATE:

			HOURS	
09/13/2021	JJJ	Review agenda packet.	0.30	51.00
09/15/2021	JJJ	Attend Board meeting.	1.00	170.00
		AMOUNT DUE	1.30	221.00
		TOTAL CURRENT WORK		221.00
		PREVIOUS BALANCE		\$238.00
		TOTAL AMOUNT DUE		<u>\$459.00</u>

OK
Daryl Jacobson 10/7/21

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.

**HAB Aquatic Solutions**

735 S. 56th Street, Suite 2
Lincoln, NE 68510
Phone: 402-430-0352
jholz@habaquatics.com

INVOICE FOR SERVICES

Black Dog Watershed Management Organization
Daryl Jacobson, Administrator
100 Civic Center Parkway
Burnsville, MN 55337

DATE:
PROJECT NO.:
PERIOD COVERED:
INVOICE NO.:

23 September 2021
21-902
Thru 9/22/21
21-902

Project Name: 2021 Aluminium Treatment for Keller Lake
Project No: 21-902
Contract Amount: \$110,658.00

Task 01: Keller Lake Buffered Alum Application

Description	Amount	Current Due
Complete services for lake buffered alum application, including alum, sodium aluminate, labor, and equipment mobilization and demobilization.	110,658.00 \$	110,658.00

Task 01: Keller Lake Buffered Alum Application \$ 110,658.00

TOTAL DUE CURRENT INVOICE: \$ 110,658.00

CONTRACT AMOUNT:	\$	110,658.00
PREVIOUS BILLING:	\$	-
CURRENT INVOICE:	\$	110,658.00
TOTAL INV'D. TO DATE:	\$	110,658.00
CONTRACT REMAINING:	\$	-

Make all checks payable to:
HAB Aquatic Solutions
735 S. 56th Street, Suite 2
Lincoln, NE 68510

Contracted Payment Term: 30 days

OK
Daryl Jacobson
10-12-21

BLACK DOG WMO
CASH ACTIVITY REPORT 2021

Expenditures:																
Date	Description	Deposits	Check #	Check Amount	Monthly Cash Balance	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 12/31/20					572,983.92											
20-Jan	Barr Engineering Co (2020)		1745	4,253.50		2,637.50	1,508.00	-	-					108.00		
20-Jan	Campbell Knutson (2020)		1746	85.00							85.00					
20-Jan	Met Council - Environ Services (2020)		1747	3,040.00										3,040.00		
31-Jan	Interest Income	9.67														
01/31/20 Balance		9.67		7,378.50	565,615.09	2,637.50	1,508.00	-	-	-	85.00	-	-	3,148.00	-	-
17-Feb	Barr Engineering Co		1748	5,732.00		2,284.00	89.50	1,155.00	1,186.00					1,017.50		
17-Feb	Campbell Knutson		1749	340.00							340.00					
17-Feb	City of Burnsville (2020)		1750	19,101.21								19,101.21				
17-Feb	Dakota County Soil & Water (2020)		1751	2,765.00			2,250.00	-	-				515.00			
28-Feb	Interest Income	8.72														
02/28/20 Balance		8.72		27,938.21	537,685.60	2,284.00	2,339.50	1,155.00	1,186.00	-	340.00	19,101.21	515.00	1,017.50	-	-
17-Mar	Barr Engineering		1752	11,973.00		1,912.00	2,084.00	525.00	1,232.00		-			483.50	5,736.50	
31-Mar	Interest Income	8.17														
03/31/20 Balance		8.17		11,973.00	525,720.77	1,912.00	2,084.00	525.00	1,232.00	-	-	-	483.50	5,736.50	-	-
21-Apr	Barr Engineering		1753	15,238.00		3,632.50	2,141.50	350.00	2,736.00					3,461.00	2,917.00	
21-Apr	Campbell Knutson		1754	391.00							391.00					
30-Apr	Interest Income	4.22														
04/30/20 Balance		4.22		15,629.00	510,095.99	3,632.50	2,141.50	350.00	2,736.00	-	391.00	-	3,461.00	2,917.00	-	-
19-May	Barr Engineering		1755	7,563.04		1,296.00	854.54	-	4,212.00					888.00	312.50	
19-May	Dakota County Soil & Water Conservation		1756	680.00		-	-	-	-					680.00	-	
31-May	Interest Income	4.35														
05/31/20 Balance		4.35		8,243.04	501,857.30	1,296.00	854.54	-	4,212.00	-	-	-	1,568.00	312.50	-	-
16-Jun	Barr Engineering		1757	5,997.32		2,564.50	1,830.82	-	1,085.00					148.00	369.00	
16-Jun	Campbell Knutson		1758	238.00							238.00					
30-Jun	Interest Income	4.21														
06/30/20 Balance		4.21		6,235.32	495,626.19	2,564.50	1,830.82	-	1,085.00	-	238.00	-	148.00	369.00	-	-
21-Jul	Barr Engineering		1759	9,460.56		1,199.50	2,118.90	-	4,519.00					-	1,623.16	
21-Jul	Campbell Knutson		1760	425.00							425.00					
31-Jul	Interest Income	4.31														
07/31/20 Balance		4.31		9,885.56	485,744.94	1,199.50	2,118.90	-	4,519.00	-	425.00	-	-	1,623.16	-	-
18-Aug	Barr Engineering		1761	10,009.02		1,777.50	3,111.04	1,330.00	2,086.50					1,703.98		
18-Aug	Dakota County Soil & Water Conserv Dist		1762	10,830.00			750.00		-				10,080.00			
31-Aug	Interest Income	4.03														
08/31/20 Balance		4.03		20,839.02	464,909.95	1,777.50	3,861.04	1,330.00	2,086.50	-	-	-	10,080.00	1,703.98	-	-

BLACK DOG WMO
CASH ACTIVITY REPORT 2021

					Expenditures:											
					Monthly Cash Balance	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
Date	Description	Deposits	Check #	Check Amount												
15-Sep	Barr Engineering		1763	11,255.34		2,310.94	2,252.40	3,171.50	3,520.50				-	-		
15-Sep	League of MN Cities Insurance Trust		1764	2,701.00						2,701.00						
9-Sep	City of Lakeville	30,101.00														
28-Sep	City of Apple Valley	12,262.00														
28-Sep	City of Eagan	580.00														
30-Sep	Interest Income	4.02														
09/30/20 Balance		42,947.02		13,956.34	493,900.63	2,310.94	2,252.40	3,171.50	3,520.50	2,701.00	-	-	-	-	-	-
Total Revenue		42,994.70	Total Expense			19,614.44	18,990.70	6,531.50	20,577.00	2,701.00	1,479.00	19,101.21	16,255.50	16,827.64	-	-
Less: 2020 A/R		-	Less: 2020 A/P			(29,244.71)	(2,637.50)	(3,758.00)	-	-	(85.00)	(19,101.21)	(515.00)	(3,148.00)	-	-
Total YTD 2020 Revenue		42,994.70	Total YTD 2021 Exp			16,976.94	15,232.70	6,531.50	20,577.00	2,701.00	1,394.00	-	15,740.50	13,679.64	-	-
			2021 Budget			214,500.00	31,000.00	36,800.00	10,000.00	70,000.00	3,000.00	5,000.00	18,000.00	17,100.00	500.00	5,000.00
			Budget Remaining			121,667.00	14,023.00	21,567.30	3,468.50	49,423.00	299.00	3,606.00	18,000.00	2,359.50	3,420.36	500.00

BLACK DOG WATER MANAGEMENT COMMISSION

Budget Performance Report September 30, 2021

	CURRENT MONTH	YEAR TO DATE			
	ACTUAL	GENERAL FUND BUDGET	CAPITAL IMPROVEMENT FUND BUDGET	ACTUAL	VARIANCE FAVORABLE (UNFAVORABLE)
Opening Fund Balance		\$ 421,605	\$ 122,135	\$ 543,739	
REVENUES :					
Member Contributions:					
City of Apple Valley	\$ 12,262	\$ 10,489	\$ 1,773	\$ 12,262	\$ -
City of Burnsville	-	93,924	16,133	-	(110,057)
City of Eagan	580	580	-	580	-
City of Lakeville	30,101	26,007	4,094	30,101	-
Total Member Contributions	42,943	131,000	22,000	42,943	(110,057)
Other Revenues:					
Interest	\$ 4	\$ 40	\$ -	\$ 52	\$ 12
Grant (State of MN BWSR)	-	-	-	-	-
Total Other Revenue	4	40	-	52	12
Total Revenues	\$ 42,947	\$ 131,040	\$ 22,000	\$ 42,995	\$ (110,045)
EXPENDITURES :					
General Engineering Support	\$ 2,311	\$ 31,000	\$ -	\$ 16,977	\$ 14,023
Special Projects - General Fund	2,252	36,800	-	15,233	21,567
Special Projects - Capital Improvement Fund	3,172	-	10,000	6,532	3,469
Special Projects - General Fund Reserve	3,521	70,000	-	20,577	49,423
Insurance	2,701	3,000	-	2,701	299
Legal and Audit	-	5,000	-	1,394	3,606
Administrative Support	-	18,000	-	-	18,000
Public Education	-	18,100	-	15,741	2,360
Water Quality Monitoring	-	17,100	-	13,680	3,420
Conference/Publications	-	500	-	-	500
Contingency	-	5,000	-	-	5,000
Total Expenditures	13,956	204,500	10,000	92,833	121,667
EXCESS OF REVENUES OVER (UNDER) EXPENDITURES	28,991	(73,460)	12,000	(49,839)	
EXCESS OF REVENUES OVER (UNDER) EXPENDITURES PLUS OPENING FUND BALANCE				493,901	
TOTAL CASH AVAILABLE 9/30/2021	493,901				
Fund Balance 9/30/2021	\$493,901				

Memorandum

To: Black Dog Watershed Management Organization (BDWMO) Commissioners
From: Greg Williams, PE, Barr Engineering Co.
Subject: Recommended Changes to BDWMO Monitoring Program
Date: October 12, 2021
Project: 23191455
c: Daryl Jacobson, BDWMO Administrator

Requested BDWMO Commission actions:

1. Discuss and approve, or revise as needed, recommended changes to the BDWMO monitoring program.

1.0 Background

The update of the Black Dog Watershed Management Organization (BDWMO) Watershed Management Plan (Plan) provides an opportunity to review and revise monitoring activities performed by the BDWMO. Presently, the BDWMO performs management level water quality (i.e., water chemistry) monitoring on Crystal Lake, Orchard Lake, and Lac Lavon on a three-year rotation. The BDWMO performs habitat monitoring of all five strategic waterbodies (Crystal Lake, Orchard Lake, Lac Lavon, Kingsley Lake, and Keller Lake) on a five-year rotation.

Barr Engineering Co. (Barr) staff reviewed the existing BDWMO monitoring programs to identify potential gaps and opportunities in an August 2021 internal meeting. Barr solicited additional input from the Technical Advisory Committee (TAC), including member city staff, during a September 1, 2021 meeting. This discussion is summarized in a September 7, 2021 memorandum to the commissioners and included in the September 15, 2021 BDWMO meeting packet.

On October 11, 2021, Apple Valley, Burnsville, and Lakeville city staff met with Barr staff and the BDWMO administrator to discuss proposed revisions to BDWMO monitoring activities with the intent of maximizing the value of BDWMO monitoring efforts to cities and the BDWMO. This memorandum presents the cities' recommendations stemming from the meeting.

2.0 Recommendations for Monitoring Program Revisions

Through discussion on October 11, 2021, member city staff provided the following consensus recommendations.

- **Perform management level water chemistry monitoring of Keller Lake and Kingsley Lake.** Previously, water chemistry data was collected for these lakes only through the Citizen Assisted Monitoring Program (CAMP). Adding these shallow lakes to the management level monitoring

cycle will result in a consistent monitoring program for all five strategic waterbodies and yield a more complete understanding of the overall quality of these lakes.

- **Monitor the five strategic waterbodies (Crystal Lake, Keller Lake, Kingsley Lake, Orchard Lake, and Lac Lavon) on a five-year rotation** such that one strategic waterbody is monitored each year. Performing all monitoring activities on a single waterbody during one year will allow correlation of multiple pieces of data to promote a more comprehensive understanding of lake quality. Note that management level water chemistry monitoring is currently performed every three years for Crystal Lake, Orchard Lake, and Lac Lavon. This will include point-intercept surveys performed by cities and/or the BDWMO. We recommend the BDWMO continue to fund annual CAMP monitoring of the five strategic waterbodies. Barr will continue to use CAMP water quality data in assessing water quality trends.
- **Include chloride monitoring with management level water quality monitoring of strategic waterbodies.** Chloride is a pollutant of growing concern, and there are no reasonable methods to treat or remove chloride once it is in a waterbody. Thus, establishing baseline conditions and assessing trends is critical to identifying concerns and designing strategies to limit chloride loading to strategic waterbodies. Chloride samples would be collected for analysis during each monitoring event. City staff considered the possible risk of future chloride impairments but recommend collecting chloride data.
- **Perform algal community (phytoplankton) monitoring of strategic waterbodies** concurrent with the 5-year management level monitoring rotation. Understanding algal communities in correlation with water chemistry and physical lake conditions will promote a more complete understanding of lake ecology and potential impacts of climate change. Phytoplankton samples would be collected for analysis during each monitoring event.
- **Suspend habitat monitoring in its current form.** Barr will continue to provide analysis and interpretation of point-intercept surveys (performed by cities and/or the BDWMO) and other lake vegetation data collected by member cities. However, shoreline and upland surveys will be deferred indefinitely. Available habitat, aquatic macrophyte, and fishery data (as available) will be incorporated into BDWMO monitoring reports.
- **Consolidate results into a single, concise technical report for each lake.** Barr will prepare a single monitoring report for each strategic waterbody combining the relevant results of BDWMO and city monitoring efforts. The report will discuss the interrelationship of collected data, identify trends, summarize projects/activities occurring in the watershed, and provide an overall interpretation of lake quality. The report will also include recommendations for follow-up actions, including potential in-lake actions (e.g., vegetation management). The report may be formatting similar to [Bassett Creek Watershed Management Commission lake monitoring reports](#).
- **Developing a brief, public-facing outreach document** for each lake summarizing monitoring outcomes and focusing on resident engagement, similar to the [Keller Lake fact sheet](#) prepared by the City of Apple Valley.

3.0 Impacts to Monitoring Costs

The recommendations proposed in this memorandum will affect monitoring program costs. The planning level cost estimate for the 5-year rotating monitoring schedule described herein is approximately \$34,000 per year. This is approximately \$4,000 less per year than the approximately \$38,000 budgeted for BDWMO monitoring and reporting expenses in 2022. The reduced cost is primarily due to the deferral of habitat monitoring but is offset by the addition of algal community monitoring.

Adding Keller Lake and Kingsley Lake have a modest impact on management level monitoring costs as the additions are offset by the longer interval between monitoring of Crystal Lake, Orchard Lake, and Lac Lavon. The net impact to management level water quality monitoring cost is a small savings due to the shallower depths of Keller Lake and Kingsley Lake. Note that the planning level cost estimate for future management level monitoring includes point-intercept macrophyte surveys (currently funded by cities for most lakes). The addition of chloride sampling to management level monitoring has minimal impact on annual costs (i.e., additional lab analytical costs).

Coordinating monitoring efforts and the elimination of a separate habitat monitoring report will yield efficiencies in analysis and reporting. Those cost savings, however, are assumed to be offset by the development of additional, public facing monitoring summaries of each lake for outreach purposes. In addition, there may be additional one-time costs to develop a detailed scope for the coordinated monitoring and develop the first-year report (new format).

4.0 Additional Activities

In addition to the recommendation discussed in Section 2.0, member city staff recommend evaluating potential "reference" lakes to characterize or define the desirable habitat, fishery, and other ecological conditions that may potentially be achievable in BDWMO strategic waterbodies. Defining the desirable habitat conditions and characteristics of other regional waterbodies may help the BDWMO establish qualitative and/or quantitative goals related to the ecological functions of strategic waterbodies or prioritize parameters for future habitat monitoring efforts.

Following an evaluation of potential ecological reference lakes, member city staff recommend reviewing the BDWMO monitoring scope to determine if additional monitoring activities may add value. The possible redesign of BDWMO habitat monitoring activities is assumed to occur after adoption of the 2022 BDWMO Watershed Management Plan (i.e., as an implementation activity).