

Black Dog Watershed Management Commission

AGENDA

Wednesday, July 21, 2021

5:00 P.M.

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 – June 16, 2021
- III. Approval of Accounts Payable
- IV. Review Budget Performance Reports
- V. Discuss Plan Goals and Goal Measurability
- VI. Discuss Updates to Lake Monitoring Schedules
- VII. Miscellaneous
- VIII. 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.

Black Dog Watershed Management Commission

Agenda Background July 21, 2021

I. Approval of Agenda

Agenda enclosed.

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

II. Approval of Minutes from the June 16, 2021 Meeting

Minutes enclosed.

Action Requested: A motion be considered to approve the Minutes of the June 16, 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. Discuss Plan Goals and Goal Measurability

Barr Engineering staff will lead a discussion on the goals and goal measurability for the plan update. Included in the packet is a memo from Barr Engineering. The memo outlines some talking points and potential changes from the goals set in the current Watershed Management Plan.

Action requested: Provide feedback on the draft goals for the plan update.

VI. Discuss Updates to the Lake Monitoring Schedules

Barr Engineering will lead the discussion on potential lake monitoring schedule changes.

Action requested: Provide feedback to staff on lake monitoring schedules.

VII. Miscellaneous

Black Dog Watershed Management Commission

DRAFT **Meeting Minutes** **June 16, 2021**

MEMBERS PRESENT

Curt Enestvedt, Chair
Mike Hughes, Vice Chair
Scott Thureen, Secretary/Treasurer

MEMBERS ABSENT

Tom Harmening
Rollie Greeno
Greg Helms, Alternate
Frank Boyce, Alternate
Natalie Walker, Alternate

OTHERS PRESENT

Karen Chandler – Barr Engineering
Greg Williams – Barr Engineering
Samantha Berger – City of Apple Valley
Joel Jamnik, Campbell Knutson (*joined 5:21pm*)
Ann Messerschmidt – City of Lakeville (*left 5:50pm*)
Daryl Jacobson – BDWMO Administrator
Tammi Carté – BDWMO Secretary

Curt Enestvedt, Chair, called the June 16, 2021, meeting to order at 5:00pm via Zoom.

I. Approval of Agenda

Motion by Thureen, second by Hughes, to approve the June 16, 2021 Agenda as presented.

Ayes – Enestvedt, Hughes, Thureen

Nays – None

Motion Carried Unanimously

II. Approval of Minutes from the May 19, 2021 Meeting

Motion by Hughes, second by Thureen, to approve the May 19, 2021 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 payments to Barr Engineering in the amount of \$5,997.32 for services from May 1, 2021 through May 28, 2021; and, to Campbell Knutson in the amount of \$238.00 for April 2021 general services.

Ayes – Enestvedt, Hughes, Thureen

Nays – None

Motion Carried Unanimously

IV. Review Budget Performance Reports

Daryl Jacobson, BDWMO Administrator – Getting budget out to member cities this week.

No Formal Action Required

V. Discuss Comments on the Land and Water Resource Inventory

This discussion opportunity allowed Commissioners to comment and ask questions on the Land and Water Resource Inventory. It was noted that the Black Dog WMO's work and commitment to improve the water quality of lakes within the WMO has had a significant and positive impact on Crystal Lake's water quality. Comments and questions can still be submitted to Barr Engineering.

No Formal Action Required

VI. Approve Issue and Resource Prioritization for the Plan Update

Barr Engineering reviewed issue and resource prioritization in relation to the plan update. A memo describing actions to be considered and attachments were provided to the Commission for review prior to this meeting.

The issues submitted include management of Subsurface Sewage Treatment Systems (SSTS), commonly known as septic systems. There aren't many inside the WMO and the ones that do exist are likely within areas of Lakeville. Grace Methodist church has a septic system on the west end of Crystal Lake that will be closed when construction of a new apartment structure is completed.

It was suggested to add Minnesota Pollution Control Agency (MPCA) links related to groundwater quality information. The Commission agrees with the draft list of issue prioritization developed with the mindset of the WMO partnering with other agency plans.

Motion by Hughes, second by Thureen, to approve the recommended issue prioritization as discussed.

Ayes – Enestvedt, Hughes, Thureen

Nays – None

Motion Carried Unanimously

Barr Engineering continued with Resource Prioritization. The Commission does not recommend changes to the criteria for determining priority waterbodies. The Commission supports not adding to or removal of strategic waterbodies currently being monitored.

Motion by Thureen, second by Hughes, to approve the list of strategic waterbodies as currently identified.

Ayes – Enestvedt, Hughes, Thureen

Nays – None

Motion Carried Unanimously

VII. Approve Method of Conducting Future Black Dog WMO Public Meetings

In March of 2020 the Black Dog WMO started holding all meetings virtually due to Covid-19. With restrictions related to Covid-19 being reduced and lifted, in-person meetings are again available.

The decision is made to resume In-person Black Dog WMO public meetings August 2021. Facemasks and distancing will not be required.

No Formal Action Required

VIII. Miscellaneous

1. The next Black Dog meeting is scheduled for July 21, 2021.

IX. Adjournment

Motion by Hughes, second by Thureen, to adjourn at 6:04pm.

Ayes – Enestvedt, Hughes, Thureen

Nays – None

Motion Carried Unanimously

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

Accounts Payable - July 21, 2021 Meeting

Barr Engineering - Services from May 29, 2021 through July 2, 2021

Engineering	\$	1,199.50
Special Projects General Fund - Crystal Lake Mgmt Level Monitoring	\$	2,118.90
Special Projects General Fund Reserve - Watershed Mgmt Plan Update	\$	4,519.00
Water Quality Monitoring - Kingsley Lake Habitat Monitoring	\$	1,623.16
		<hr/>
	\$	9,460.56

Campbell Knutson

May 2021 - General Services	\$	255.00
June 2021 - General Services	\$	170.00
		<hr/>
	\$	425.00

Accounts Payable Total \$ 9,885.56

resourceful. naturally.
engineering and environmental consultants



July 13, 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 May 29, 2021 through July 2, 2021

TOTAL PAYABLE THIS INVOICE:	\$ 9,460.56
Allocation:	
Engineering	\$ 1,199.50
Special Projects General Fund	
• Crystal Lk Mgmt Level Monitoring	\$ 2,118.90
Special Projects General Fund Reserve	
• Watershed Mgmt Plan Update	\$ 4,519.00
Water Quality Monitoring	
• Kingsley Lake Habitat Monitoring	\$ 1,623.16

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 7-14-21
Daryl Jacobson

BUDGET SUMMARY - 2021 FY
Black Dog Watershed Management Commission
through July 2, 2021

Work Description	Pre-2021 Costs	Barr Budget				Spent This Year	Balance
		Brought Forward	Current Year	Total Barr Budget	Current Invoice		
Engineering	-----	0.00	31,000.00	31,000.00	1,199.50	12,888.50	18,111.50
Special Projects: General Fund							
Reporting on Orchard Lk 2020 Water Quality Monitoring	-----	0.00	4,500.00	4,500.00	0.00	4,126.00	374.00
Crystal Lake 2021 Mgmt Level Monitoring			18,800.00	18,800.00	2,118.90	4,993.26	13,806.74
Subtotal -- Special Projects: General Fund	-----	0.00	23,300.00	23,300.00	2,118.90	9,119.26	14,180.74
Special Projects: Capital Improvement Fund							
Keller Lake Alum Treatment			10,000.00	10,000.00	0.00	2,030.00	7,970.00
Subtotal -- Special Projects: Capital Improvement Fund	-----	0.00	10,000.00	10,000.00	0.00	2,030.00	7,970.00
Special Projects: General Fund Reserve							
Watershed Management Plan Update ¹	10,905.00		70,000.00	70,000.00	4,519.00	14,970.00	55,030.00
Subtotal -- Special Projects: General Fund Reserve	-----	0.00	70,000.00	70,000.00	4,519.00	14,970.00	55,030.00
Water Quality Monitoring							
Reporting on 2020 Keller Lake Habitat Monitoring	-----	0.00	8,000.00	8,000.00	0.00	7,983.50	16.50
2021 Kingsley Lake Habitat Monitoring		0.00	3,300.00	3,300.00	1,623.16	1,992.16	1,307.84
Update Trend Analyses	-----	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	1,623.16	11,975.66	1,324.34
Public Education							
Watershed Annual Report	-----	0.00	4,300.00	4,300.00	0.00	3,519.00	781.00
Annual Activity Report (BWSR)	-----	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	153,900.00	153,900.00	9,460.56	55,963.92	97,936.08

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



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

July 13, 2021
Invoice No: 23190374.21 - 6

Total this Invoice	\$1,199.50
---------------------------	-------------------

Regarding: BDWMO 2021 Engineering Services

Professional Services from May 29, 2021 to July 2, 2021

Job:	2021	Engineering Services
Task:	001	Attend BDWMO Meetings

Labor Charges

	Hours	Rate	Amount	
Principal				
Chandler, Karen	1.20	185.00	222.00	
Engineer / Scientist / Specialist III				
Williams, Sterling	1.20	150.00	180.00	
	2.40		402.00	
Subtotal Labor				402.00
				Task Subtotal
				\$402.00

Task:	002	Miscellaneous Consulting
-------	-----	--------------------------

Labor Charges

	Hours	Rate	Amount	
Principal				
Chandler, Karen	3.50	185.00	647.50	
Support Personnel II				
Nypan, Nyssa	1.50	100.00	150.00	
	5.00		797.50	
Subtotal Labor				797.50
				Task Subtotal
				\$797.50
				Job Subtotal
				\$1,199.50
				Total this Invoice
				\$1,199.50

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	1,199.50	16,669.50	17,869.00	16,669.50	1,199.50

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.

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.



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

July 13, 2021
Invoice No: 23190375.21 - 6

Total this Invoice	\$2,118.90
---------------------------	-------------------

Regarding: Management Level Water Quality Monitoring

Professional Services from May 29, 2021 to July 2, 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	3.00	125.00	375.00
Olson, Terri	.30	150.00	45.00
Technician II			
Novack, John	2.50	105.00	262.50
Technician I			
Melmer, David	8.30	90.00	747.00
Schneider, Anna	.20	75.00	15.00
Support Personnel II			
Treanor, Margaret	1.50	115.00	172.50
	15.80		1,617.00
Subtotal Labor			1,617.00

Subconsultant Charges

Subconsultants		
5/3/2021	Pace Analytical Services Inc	217.80
Subtotal Subconsultant		217.80

Unit Charges

Canoe	1.0 day @ 32.00	32.00
Kemmerer Vertical Bottle Sampler	1.0 day @ 33.50	33.50
Vehicle (Mileage)	60.0 miles @ 0.56	33.60
Water Quality Meter (YSI 556 MPS)	1.0 day @ 85.00	85.00
Barr Owned Vehicle Use	1.0 day @ 90.00	90.00
Ice (per bag)	4.0 ea @ 2.50	10.00
Subtotal Units		284.10

Task Subtotal	\$2,118.90
----------------------	-------------------

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	6
---------	-------------	--	---------	---

Job Subtotal **\$2,118.90**

Total this Invoice **\$2,118.90**

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	2,118.90	7,000.36	9,119.26	7,000.36	2,118.90

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

July 13, 2021
Invoice No: 23190457.21 - 5

Total this Invoice	\$1,623.16
---------------------------	-------------------

Regarding: Habitat Monitoring

Professional Services from May 29, 2021 to July 2, 2021

Job:	KING	Kingsley Lake 2021 Habitat Monitoring
Task:	001	Monitoring Sample Plots

Labor Charges

	Hours	Rate	Amount
Engineer / Scientist / Specialist II			
Wild, Kelly	3.20	105.00	336.00
Technician II			
Johannessen, Kim	4.30	100.00	430.00
Technician I			
Melmer, David	7.50	90.00	675.00
Support Personnel II			
Hutson, Jeremy	.40	115.00	46.00
	15.40		1,487.00
Subtotal Labor			1,487.00

Unit Charges

Barr Owned Vehicle Use	0.5 days @ 90.00	45.00
Canoe	0.5 days @ 32.00	16.00
Differential GPS System (Trimble)	0.5 days @ 110.00	55.00
Vehicle (Mileage)	36.0 miles @ 0.56	20.16
Subtotal Units		136.16

Task Subtotal **\$1,623.16**

Job Subtotal **\$1,623.16**

Total this Invoice **\$1,623.16**

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	1,623.16	8,352.50	9,975.66	8,352.50	1,623.16

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.

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.



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

July 13, 2021
Invoice No: 23191455.00 - 7

Total this Invoice	\$4,519.00
---------------------------	-------------------

Regarding: BDWMO 2022 Watershed Management Plan

Professional Services from May 29, 2021 to July 2, 2021

Job:	100	Stakeholder Engagement
------	-----	------------------------

Task:	003	Online Survey
-------	-----	---------------

Labor Charges

	Hours	Rate	Amount
Engineer / Scientist / Specialist III			
Williams, Sterling	7.50	150.00	1,125.00
Support Personnel II			
Ungar, Lisa	.30	130.00	39.00
	7.80		1,164.00
Subtotal Labor			1,164.00
		Task Subtotal	\$1,164.00

Task:	005	Board Issue Workshop(s)
-------	-----	-------------------------

Labor Charges

	Hours	Rate	Amount
Principal			
Chandler, Karen	3.40	185.00	629.00
Engineer / Scientist / Specialist III			
Williams, Sterling	7.20	150.00	1,080.00
	10.60		1,709.00
Subtotal Labor			1,709.00
		Task Subtotal	\$1,709.00
		Job Subtotal	\$2,873.00

Job:	200	Draft Plan Development
------	-----	------------------------

Task:	001	Physical Environment Inventory
-------	-----	--------------------------------

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

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

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist III				
Williams, Sterling	4.30	150.00	645.00	
	4.30		645.00	
Subtotal Labor				645.00
			Task Subtotal	\$645.00

Task: 002 Issues and Goals

Labor Charges

	Hours	Rate	Amount	
Principal				
Chandler, Karen	1.60	185.00	296.00	
Engineer / Scientist / Specialist III				
Williams, Sterling	4.70	150.00	705.00	
	6.30		1,001.00	
Subtotal Labor				1,001.00
			Task Subtotal	\$1,001.00
			Job Subtotal	\$1,646.00
			Total this Invoice	\$4,519.00

	Current	Prior	Total	Received	A/R Balance
Invoiced to Date	4,519.00	11,385.00	15,904.00	11,385.00	4,519.00

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
May 31, 2021
Account # 602-0000G
364

RE: GENERAL SERVICES
RENDERED TO DATE:

			HOURS	
05/19/2021	JJJ	Board meeting.	1.30	221.00
05/20/2021	JJJ	Review Board actions.	0.20	34.00
		AMOUNT DUE	1.50	255.00
		TOTAL CURRENT WORK		255.00
		PREVIOUS BALANCE		\$238.00
		TOTAL AMOUNT DUE		<u>\$493.00</u>

OK

7-9-21

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
June 30, 2021
Account # 602-0000G
365

RE: GENERAL SERVICES
RENDERED TO DATE:

			HOURS	
06/16/2021	JJJ	Monthly Board Meeting.	1.00	170.00
		AMOUNT DUE	1.00	170.00
		TOTAL CURRENT WORK		170.00
		PREVIOUS BALANCE		\$493.00
06/22/2021		Payment - thank you		-238.00
		TOTAL AMOUNT DUE		<u>\$425.00</u>

OK

7-9-21

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.

BLACK DOG WMO
CASH ACTIVITY REPORT 2021

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 12/31/20					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	-	-
Total Revenue		39.34	Total Expense			14,326.50	10,758.36	2,030.00	10,451.00	-	1,054.00	19,101.21	6,175.50	13,500.50	-	-
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		39.34	Total YTD 2021 Exp		48,152.36	11,689.00	7,000.36	2,030.00	10,451.00	-	969.00	-	5,660.50	10,352.50	-	-
			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	18,100.00	17,100.00	500.00	5,000.00
			Budget Remaining		166,348.00	19,311.00	29,799.64	7,970.00	59,549.00	3,000.00	4,031.00	18,000.00	12,439.50	6,747.50	500.00	5,000.00

BLACK DOG WATER MANAGEMENT COMMISSION

Budget Performance Report June 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	\$ -	\$ 10,489	\$ 1,773	\$ -	\$ (12,262)
City of Burnsville	-	93,924	16,133	-	(110,057)
City of Eagan	-	580	-	-	(580)
City of Lakeville	-	26,007	4,094	-	(30,101)
Total Member Contributions	-	131,000	22,000	-	(153,000)
Other Revenues:					
Interest	\$ 4	\$ 40	\$ -	\$ 39	\$ (1)
Grant (State of MN BWSR)	-	-	-	-	-
Total Other Revenue	4	40	-	39	(1)
Total Revenues	\$ 4	\$ 131,040	\$ 22,000	\$ 39	\$ (153,001)
EXPENDITURES :					
General Engineering Support	\$ 2,565	\$ 31,000	\$ -	\$ 11,689	\$ 19,311
Special Projects - General Fund	1,831	36,800	-	7,000	29,800
Special Projects - Capital Improvement Fund	-	-	10,000	2,030	7,970
Special Projects - General Fund Reserve	1,085	70,000	-	10,451	59,549
Insurance	-	3,000	-	-	3,000
Legal and Audit	238	5,000	-	969	4,031
Administrative Support	-	18,000	-	-	18,000
Public Education	148	18,100	-	5,661	12,440
Water Quality Monitoring	369	17,100	-	10,353	6,748
Conference/Publications	-	500	-	-	500
Contingency	-	5,000	-	-	5,000
Total Expenditures	6,235	204,500	10,000	48,152	166,348
EXCESS OF REVENUES OVER (UNDER) EXPENDITURES	(6,231)	(73,460)	12,000	(48,113)	
EXCESS OF REVENUES OVER (UNDER) EXPENDITURES PLUS OPENING FUND BALANCE				495,626	
TOTAL CASH AVAILABLE 6/30/2021	495,626				
Fund Balance 6/30/2021	\$ 495,626				

Memorandum

To: Black Dog Watershed Management Organization (BDWMO) Commissioners
From: Greg Williams, PE, Barr Engineering Co.
Subject: Draft goal revisions for 2022 Watershed Management Plan Update
Date: July 13, 2021
Project: 23191455
c: Daryl Jacobson, BDWMO Administrator

Requested BDWMO Commission actions:

1. Review the draft revisions to the BDWMO Plan goals in advance of discussion planned for the July 21, 2021 meeting.

1.0 Background

The Black Dog Watershed Management Organization (BDWMO) commissioners are in the process of updating the BDWMO Watershed Management Plan (Plan). Establishing measurable goals is a key step in Plan development, as the activities in the 10-year implementation plan will be geared towards making progress towards these goals. Existing BDWMO goals are included in Section 4 of the 2012 BDWMO Plan and are organized according to issue topic.

2.0 Goal Measurability

Since adoption of the 2012 Plan, the Minnesota Board of Water and Soil Resources (BWSR) has emphasized increased measurability of watershed management plan goals. Minnesota Rules 8410.0080 requires that Plans contain "specific measurable goals" and sufficient detail to "allow for the success or failure of the goals to be measured."

While the 2012 BDWMO Plan includes goals that address each priority issue, many of the goals do not contain specific measurable elements or do not specify the degree to which an improved condition will be achieved. For example, the 2012 goal of "Improve the quality of stormwater runoff reaching the Minnesota River by reducing nonpoint source pollution (including sediment) carried with stormwater runoff" does not specify to what degree stormwater runoff will be improved or how that improvement will be measured (e.g., sediment load, nutrient concentrations).

Detailed, specific metrics are not appropriate for all goals and in some cases may result in an overly narrow focus (e.g., focusing on the number of actions performed versus the quality of the result). Generally, however, Barr recommends increasing the measurability of goals relative to the 2012 Plan.

3.0 Draft Goals

Barr used the existing goals included in Section 4 of the 2012 BDWMO Plan as a starting point for revision. The entirety of Section 4 of the 2012 BDWMO Plan is provided as an attachment; edits are limited to the goals and no edits have yet been made to policies (which are included for context). Barr revised, deleted, and added goals with consideration for the issue topics as prioritized at the June 16, 2021 workshop (see graphic at right) and an emphasis on measurability. Presently, goals are organized according to the issue headings in the 2012 Plan, with entirely new goals included under the heading deemed most appropriate (e.g., chloride-related goal is included within the water quality heading).

Higher Priority Issues

- Water quality
- Ecological health
- Groundwater management
- Education and outreach

Lower Priority Issues

- Flooding/ water levels
- Wetland management
- Upland/natural area management

Draft goals in the attached document are formatted as follows:

~~Stricken text~~ = existing goal or portion of goal recommended for deletion/omission

Red text = suggested new goal, significantly revised goal, or new text in an existing goal

Italic text, yellow highlight = notes explaining the rationale for revisions (for internal use)

Some of the existing goals shown as stricken text are recommended for inclusion in the Plan as policies or implementation items. Several goals include placeholders for quantities or numeric values (e.g., "X acres of wetland restoration"). These values will be identified through an iterative process concurrent with the development of the implementation program with input from the member cities and partners to ensure that goals are realistic with respect to available financial and staff resources.

4.0 Next Steps

Following input from the commissioners, Barr will meet with the Technical Advisory Committee (TAC) to get feedback on draft goals.

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

4.0 Goals and Policies

This section sets goals and policies that reflect the mission of the BDWMO and the vision for its water resources. The section also sets goals for specific waterbodies, managing stormwater runoff, controlling erosion, preserving wetlands, enhancing wildlife habitat and recreational opportunities, education and public involvement, performance evaluation, and financing of the implementation program. The goals are followed by policies that provide specific methods of achieving the goals and serve as decision making guidelines.

4.1 WATER QUALITY

4.1.1 Goals

- ~~▪ Maintain or restore the water quality of the BDWMO water resources to meet state water quality standards and allow for the continuation or enhancement of existing intended uses.~~
- Maintain or improve existing water quality in BDWMO strategic waterbodies to meet applicable state standards:

Consider including individual targets for each lake based on 10-year average (i.e., non-degradation)

- Improve water quality of Keller Lake to achieve applicable state water quality standards (summer average of 60 ug/L total phosphorus and 1.0 m Secchi disc transparency) *(Consider including a goal for Keller Lake separately from the other lakes because it is impaired and the goal is meeting applicable state water quality standards, versus maintaining existing water quality)*
- ~~▪ Improve the quality of stormwater runoff reaching the Minnesota River by reducing nonpoint source pollution (including sediment) carried with stormwater runoff.~~
- Reduce sediment loading to the Minnesota River from stormwater runoff towards a target value of XXX *(get input from MPCA on appropriate stormwater runoff target based on Minnesota River TMDL/WRAPS)*
- Reduce phosphorus loading to the Minnesota River from stormwater runoff towards a target value of XXX *(get input from MPCA on appropriate stormwater runoff target)*

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

- Maintain or improve the quality of stormwater runoff reaching the calcareous fen (Black Dog fen) and the nearby trout streams.

Since Black Dog Fen and trout streams are downstream of BDWMO, consider combining this with the goals related to pollutant loading to the MN River, unless the BDWMO to be more stringent for these specific areas.

- *Need a chloride goal; consider:* Work with member cities to reduce chloride loading relative to current conditions through practices consistent with the Twin Cities Metropolitan Area Chloride Management Plan (MPCA, 2016).

4.1.2 Policies

1. All waterbodies in the BDWMO will be classified and managed according to either the BDWMO waterbody classification system or the city's wetland classification system (see member city management plans). The BDWMO will classify strategic waterbodies; member cities will classify all other waterbodies. The BDWMO waterbody classification is described in Section 2.10.2 and Table 2.7 and includes the following classifications:

Category I. Waterbodies in this category are typically used for swimming and other direct contact recreational activities. These waterbodies have the highest/best water quality and are usually the most popular waterbodies with the public.

Category II. Waterbodies in this category are typically used for indirect contact recreational activities (e.g., boating and fishing) that involve incidental contact with lake water. These waterbodies have poorer water quality than Category I waterbodies, but are still popular with the public.

Category III. Waterbodies in this category serve important functions for wildlife habitat and aesthetic enjoyment, and may also provide opportunities for warm-water fishing, provided winter kill does not occur. These waterbodies may have poorer water quality than Category I and II waterbodies and typically are not viewed as swimmable because of lower water quality or the nature of their shorelines.

Category IV—Nutrient & Sediment Traps. Waterbodies in this category are intended to reduce downstream loading of sediment

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

and/or phosphorus and other nutrients that contribute to degradation of water quality. The phosphorus removal efficiency of these ponds will vary by size.

2. The BDWMO will cooperate with the affected communities and the MPCA in developing TMDLs and associated implementation plans for waterbodies within the BDWMO, as needed. BDWMO activities may include performing the TMDL, funding the TMDL, providing data to inform a TMDL, writing an implementation plan, and other appropriate activities.
3. At least biennially, the BDWMO will discuss water quality issues in the Credit River watershed downstream of the BDWMO with the Scott WMO.
4. The BDWMO will monitor the water quality of its strategic waterbodies and will submit its monitoring data to the MPCA for entry into the MPCA's water quality database, EQuIS (Environmental Quality Information System). The type of monitoring recommended for each waterbody varies according to its classification, as shown below:

Waterbody Classification	Type of Monitoring (see Section 2.9.1 and Section 2.13.2)
Category I	Survey level water quality monitoring (e.g., Metropolitan Council's Citizen Assisted Monitoring Program) and habitat monitoring—minimum requirement Management level water quality monitoring every 3 years Intensive water quality monitoring as needed for diagnostic and/or TMDL studies
Category II	Survey Level water quality monitoring (e.g., CAMP) and habitat monitoring. Management level water quality monitoring as needed Intensive water quality monitoring as needed for diagnostic and/or TMDL studies
Category III	Survey Level water quality monitoring (e.g. CAMP) and habitat monitoring. Management level water quality monitoring as needed Intensive water quality monitoring as needed for diagnostic and/or TMDL studies
Category IV/V	As required by city maintenance plans and policies.

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

5. The BDWMO will perform habitat monitoring (see Section 2.13.2) of all strategic waterbodies at least once every five years. This program includes monitoring of biological and physical indicators.
6. The BDWMO will take actions to protect strategic waterbodies from degradation relative to certain thresholds, or “action levels.” Table 4-1 outlines these actions. The BDWMO, with the involvement of member cities, will conduct diagnostic-feasibility studies for strategic waterbodies (see Table 4-1) to determine the needed water quality improvement projects and the estimated costs of the projects. The following “action levels” apply to these waterbodies, and will be updated annually (see Table 2-6):
 - For lakes with sufficient data, calculate the 25th and 75th percentiles of *average* summer Secchi disk transparency data from the last 10 sampling years to obtain the interquartile range. The action level should be set at the 25th percentile or the MPCA lake eutrophication standards, whichever is more stringent.
 - For lakes with insufficient (or no) water quality data, more data will need to be collected before setting lake-specific action levels. In the meantime, the following action levels would apply:

Action level for Category I waterbodies: if the average summer Secchi disk reading drops below 1.6 meters or more than two individual readings are less than 1.1 meters.

Action level for Category II waterbodies: if the average summer Secchi disk reading drops below 1.0 meters.
7. The BDWMO will limit its water quality management roles not explicitly defined in this Plan to those involving intercommunity watersheds, or those requested by the involved cities.
8. The BDWMO and member cities will continue to manage the “strategic” waterbodies. Strategic waterbodies are defined as meeting specific criteria (see Table 2.7). The strategic waterbodies are Crystal Lake, Orchard Lake, Keller Lake, Kingsley Lake, and Lac Lavon.
9. The BDWMO will recommend actions or projects for strategic waterbodies as necessary, following the process outlined in Table 4-1. Member cities will perform actions or projects recommended by the

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

BDWMO. If a city does not include a recommended action or project for a strategic resource in its CIP within 18 months, the BDWMO will consider undertaking the recommended action or project. It may require a plan amendment to add a project to Table 5-1. In this situation, the BDWMO would assess the project costs back to the cities, in accordance with the joint powers agreement. For non-strategic resources, the cities are to take the recommended action.

10. The BDWMO will continue to cooperate with the member cities in resolving issues related to the member cities' implementation of BDWMO-directed or TMDL-recommended water quality improvement projects. The BDWMO's involvement could include assisting in allocating project costs among the member cities, participating in public informational meetings about the projects, obtaining grants, and updating the BDWMO at BDWMO Commission meetings. In accordance with the joint powers agreement, any member city may appeal cost allocation decisions made by the BDWMO.
11. The BDWMO will help facilitate in allocating costs for TMDL implementation tasks aimed at achieving the required load allocations (pollutant loads not assigned to permitted MS4s) outlined in the approved TMDL. MS4s within the BDWMO will be responsible for the implementation of BMPs that will help achieve the required wasteload allocations. The BDWMO will fund and implement internal load reduction projects stemming from TMDLs for lakes with intercommunity shoreline (see also Section 4.7.4, Policy 8).
12. The BDWMO will partner with the Dakota County SWCD or other organizations to sponsor and implement water quality improvement projects on residential, commercial, or public properties through existing cost share and assistance programs (e.g. installing residential rain gardens through the Blue Thumb Program).
13. The BDWMO member cities are responsible for managing "non-strategic" waterbodies. City management of these waterbodies could include classifying, monitoring, tracking trends, conducting studies, and implementing water quality management actions. Waterbody management actions shall be reported in the city's local water management plan.

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

14. Member cities will continue to manage all MDNR public waters for nondegradation as required by their MS4 permits.
15. All Category I-III waterbodies should be managed to preserve and promote biodiversity and improve habitat quality.
16. In general, the BDWMO supports implementation of in-lake chemical treatments only after watershed load reductions have been considered or implemented.
17. Member cities are encouraged to explore the outcome of the MPCA Minimum Impact Design Standards (MIDS) project study as a source of potential ideas/regulatory tools to manage water quality and address MPCA anti-degradation requirements.
18. The BDWMO and member cities will share water quality data and trend analyses.
19. The BDWMO encourages the member cities to take full advantage of redevelopment as an opportunity to achieve water quality improvements. The BDWMO will work with member cities to identify water quality improvement opportunities in redevelopment areas and help secure funding for such projects, as requested.

4.2 WATER QUANTITY AND FLOODING

4.2.1 Goals

- ~~Manage intercommunity stormwater flows.~~ *As worded, this is more of a policy.*
- **Achieve no net increase in intercommunity peak stormwater flow rates.**
- ~~Minimize flood damage to private and public property, and protect against increased flooding caused by development and redevelopment activities.~~
- **Reduce the number and/or flood risk of habitable structures within the floodplain in cooperation with member cities.** *This goal seeks to add measurability to the previous goal above (could be achieved through development standards that prevent further increases in threatened homes, and projects to reduce or eliminate risk for existing structures).*

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

4.2.2 Policies

1. The BDWMO will serve as a facilitator for intercommunity flood control issues (issues where the tributary watershed spans more than one city or outflows cross city/county/WMO boundaries). As facilitator, the BDWMO will assist in fairly allocating costs among the member cities for intercommunity flood control projects (see Financing Policies, Section 4.7.4 #5).
2. The BDWMO will coordinate intercommunity stormwater runoff design and planning with the member communities by:
 - Reviewing each member city's local water management plan for consistency with the BDWMO goals and intercommunity planning.
 - Calculating the cost apportionment between cities for water resources projects with intercommunity participation at the request of the cities involved.
3. The BDWMO promotes stormwater volume reduction through infiltration practices (e.g., bioretention, porous pavement) on all new development and redevelopment sites where such practices are feasible and do not pose a risk to groundwater resources. The member cities will consider the Minnesota Department of Health's *Evaluating Proposed Stormwater Infiltration Projects in Vulnerable Wellhead Protection Areas*, as amended, as guidance in evaluating all proposed infiltration projects within or adjacent to vulnerable portions of the Drinking Water Supply Management Areas (DWSMA) (see Section 3.6). The member cities use infiltration and reductions in impervious surface coverage as methods to achieve TMDL load reductions (i.e., improve water quality). The member cities also use these measures to reduce runoff, especially in areas tributary to landlocked basins.
4. As part of updating local water management plans, member cities will review development regulations (zoning and subdivision ordinances). The BDWMO recommends cities amend regulations as practicable to remove/reduce obstacles to LID practices, including opportunities to reduce impervious surfaces. The BDWMO will assist member cities in amending regulations to the extent requested by the member cities. Examples of methods to reduce impervious surfaces include:

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

- Reducing road widths, such as reducing drive and parking lanes widths and allowing parking on only one side of a residential street.
 - Reducing the number and/or size of parking spaces required and the width of parking lot access lanes. Use of maximum parking requirements and required use of pervious pavement for parking spaces that exceed the maximum are encouraged.
 - Eliminating pavement in the center of cul-de-sacs.
 - Reducing sidewalk widths.
 - Allowing greater flexibility to encourage shared parking.
 - Creating a smaller building footprint (e.g., building two-story houses instead of one-story houses).
 - Installing semipermeable/permeable paving, where feasible (e.g., overflow parking lots).
 - Minimizing environmental impacts of street construction and reconstruction and creating streets safe for all ages, abilities, and modes of transportation.
 - Planting trees.
5. The BDWMO encourages the member cities to reduce discharge rates wherever possible, with the goal of reducing discharge rates to pre-development levels (or lower) (see Section 4.9 – BDWMO Performance Standards).
 6. The BDWMO encourages the member cities to recruit volunteers to participate in the MDNR’s lake level monitoring program for MDNR public waters. The BDWMO will assist member cities through “call for volunteers” articles in the BDWMO newsletter, on the BDWMO website, or other appropriate means.
 7. Member cities should evaluate the impact of increasing the drainage area to landlocked basins, including effects on flooding, as part of project review. If outlets are needed from landlocked basins, the BDWMO encourages cities to keep outflow rates low to allow for as much infiltration as appropriate, while not causing extended periods of high water levels that may have negative effects. Member cities shall consider

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

the effects of water level fluctuations on trees, vegetation, erosion, and property values when establishing flood levels for landlocked basins.

8. The BDWMO requires member cities to analyze the water quality and flooding impacts of proposed outlets from landlocked basins on intercommunity flows or any downstream strategic waterbodies prior to construction of the outlets. If analyses indicate adverse effects on water quality or increased flood potential, the city must notify the BDWMO prior to construction.
9. The member cities shall consider the effects of events larger than the 100-year flood when setting minimum building elevations. Higher minimum building elevations should be considered for structures adjacent to ponding areas with large tributary watersheds and for structures adjacent to landlocked basins.
10. Member cities shall consider the possibility of long duration events, such as multiple-year wet cycles and high runoff volume events (e.g., snowmelt events that last for many weeks) when establishing high water elevations and the need for outlets from landlocked basins.

4.3 EROSION/SEDIMENTATION

4.3.1 Goals

- ~~▪ Limit and/or decrease erosion and sedimentation through controls to protect water quality, habitat, and infrastructure (see Section 4.9.1, policy 1 regarding implementation of controls).~~
- Limit and/or decrease erosion and sedimentation through continued implementation of local controls consistent with minimum state standards.
Suggested as a revision to existing goal above.
- Reduce sediment loading to the Minnesota River from stormwater runoff towards a target value of XXX *(based on Lower Minnesota River TMDL, see also water quality goals).*

4.3.2 Policies

1. The BDWMO will facilitate intercommunity erosion and sediment control projects by performing studies, preliminary designs, feasibility reports,

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

and calculating the cost apportionment between cities, as requested by the cities.

2. The BDWMO requires conveyance system discharges to be designed so as to prevent or minimize the potential for bank, channel, or shoreline erosion.
3. Member cities shall consider the following for the design of shoreline stabilization measures, in addition to standard engineering and economic criteria: unique or special site conditions, energy dissipation potential, adverse effects, preservation of natural processes and habitat, and aesthetics.
4. Member cities shall continue managing erosion and sediment control permitting programs and ordinances as required by their NPDES MS4 permit and the NPDES Construction Stormwater General Permit. Procedures for reviewing, approving, and enforcing erosion and sediment control plans shall be described in local water management plans.

4.4 WETLAND AND HABITAT MANAGEMENT

4.4.1 Goals

- ~~Preserve the ecological quality of wetlands for water retention, recharge, soil conservation, habitat, aesthetics, and natural enhancement of water quality.~~
This will be hard to measure without specific metrics or monitoring of wetlands for water quality. Consider rephrasing to shift focus towards measurable actions, such as:
- ~~Promote improving the ecological function of wetlands for water retention, recharge, soil conservation, habitat, aesthetics, and water quality improvement through XXXX action(s)~~ *(actions could be education related, # of improvement projects, etc.)*
- ~~Support XX wetland enhancement projects led by member cities~~ *(goal could include target number of projects or acres)*
- Achieve no net loss of wetlands in the BDWMO, while conforming to the Minnesota Wetland Conservation Act (WCA) and associated rules (Minnesota Rules 8420). *(this is already somewhat measurable by being “no net loss”)*

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

4.4.2 Policies

1. Member cities will continue to enforce wetland management standards as defined by each member city (see Table 3-1), but including at a minimum:
 - Buffer strip width requirements depending on protection level or management classification (no less than 16.5 feet).
 - Limits on water level bounce during storm events depending upon wetland protection level or management classification.
2. The BDWMO defers local governmental unit (LGU) authority for administering the Wetland Conservation Act (WCA) to member cities and MnDOT (which administers the WCA within its right-of-way). The BDWMO will not seek to manage individual wetlands. In compliance with WCA, LGUs must protect wetland from impacts in the following order: avoid, minimize, mitigate.
3. The BDWMO requires member cities to maintain wetland protection ordinances based on comprehensive wetland management plans or wetland functions and values assessments.
4. The BDWMO requires member cities to maintain an inventory of wetlands, including assessment of functions and values, either as part of a comprehensive wetland management plan or on an as-needed basis.
5. Member cities will continue to use wetland management systems to effectively manage the wetlands within the BDWMO. A wetland classification system similar to MnRAM3 is recommended.
6. The member cities may request that the BDWMO classify and set goals for certain wetlands; the BDWMO commissioners will decide whether to take on the responsibility.

4.5 SHORELAND, HABITAT AND OPEN SPACE MANAGEMENT

4.5.1 Goals

- ~~Protect and enhance fish and wildlife habitat within the BDWMO.~~ *Suggest replacing with goal related to habitat monitoring (see below)*
- ~~Maintain or improve shoreland integrity, preserve and enhance the ecological quality of shoreland areas as it relates to wildlife habitat, aesthetics, soil~~

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

~~conservation, and natural improvement of water quality.~~ *This may be difficult to quantify as worded. Consider revising similar to the wetlands goal:*

- Promote improved shoreline integrity and the ecological functions of healthy shorelines through XXXX action(s) *(actions could be education related, # of improvement projects, etc.)*
- Maintain or improve the ecological and habitat quality of BDWMO strategic waterbodies as quantified through the BDWMO habitat monitoring program, with the following targets established:

Include targets for each strategic waterbody based on planned improvement or “non-degradation” if already high quality

- ~~Preserve and enhance the quality of open spaces.~~ *Suggest replacing with a more quantitative version:*
- Support XX member city projects to enhance the quality of open spaces.
- ~~Protect and increase recreation opportunities within the BDWMO.~~ *Not very measurable as worded; consider whether the BDWMO plans to spend implementation dollars on recreation enhancement. If not, suggest omitting as a goal, and possibly including among policies or implementation narrative.*
- Support member city and partners actions to prevent the increase or reduce the occurrence of aquatic invasive species within BDWMO strategic waterbodies.

This could be expanded beyond strategic waterbodies, but in that case, there would need to be some definition on what would get monitored, by whom, and what actions BDWMO would take/support to address aquatic invasive species in non-strategic waterbodies.

4.5.2 Policies

1. The BDWMO will promote and encourage protection of non-disturbed shoreland areas, restoration of disturbed shorelines, and the creation of buffer zones along shorelines. This will be done by sponsoring shoreline management and restoration workshops through the Blue Thumb Program or other similar programs, as opportunities allow.

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

2. Member cities shall minimize impacts to and will restore to the extent practicable lakeshore vegetation during and after construction projects.
3. The BDWMO will encourage public and private landowners to maintain wetlands and open space areas for the benefit of wildlife through education and by providing information on various grant programs.
4. The BDWMO encourages member cities to address disturbed shoreland areas in local water management plans, including lakeshore areas. This may include identification, ranking, and mapping of disturbed shoreland areas. The BDWMO will provide member cities with results from the BDWMO habitat monitoring program and information on various grant programs to assist with these activities.
5. The member cities are to maintain control and responsibility for shoreland regulation according to state and local regulations.
6. Member cities shall consider opportunities to maintain, enhance, or provide new open spaces and/or habitat as part of wetland modification, stormwater facility construction, redevelopment, or other appropriate projects that:
 - Increase beneficial habitat, wildlife and recreational uses; promote infiltration and vegetative water use; and
 - Decrease detrimental wildlife uses (such as beaver dams, goose overabundance) that damage water control facilities, shoreline vegetation, water quality, or recreational facilities.

4.6 GROUNDWATER

4.6.1 Goals

- ~~Protect the quality and quantity of groundwater resources.~~ *Suggest revising to focus on measurable action:*
- Promote the protection of groundwater quality and quantity through annual collaboration with Dakota County, Minnesota Department of Natural Resources, and/or other agencies managing groundwater.
- Promote groundwater conservation through at least XX education and outreach activities per year

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

4.6.2 Policies

1. The BDWMO encourages member cities to provide increased green space, grassed waterways, native vegetation, and infiltration facilities wherever such actions are possible and do not pose a risk to groundwater resources, to allow for the infiltration of stormwater runoff and promote groundwater recharge.
2. The BDWMO will work with and encourage member cities to join Dakota County or other entities in efforts to promote awareness of groundwater resource issues through public education programs, data sharing, and other information programs.
3. The BDWMO will support all the policies in the Dakota County groundwater plan and will cooperate with Dakota County, Minnesota Department of Health, and the MDNR to protect sensitive groundwater areas. Cooperation may include providing education to member cities and residents, collaborating with agencies or cities on activities and events, and/or providing data, as requested.
4. The BDWMO encourages member cities to protect recharge areas and groundwater resources from potential sources of contamination, including contamination associated with the infiltration of stormwater. This can be accomplished by enforcing appropriate spill and contamination prevention procedures, analyzing effects of infiltration BMPs prior to their construction, and other appropriate activities (see MDH guidance document *Evaluation Proposed Stormwater Infiltration Projects in Vulnerable Wellhead Protection Areas*, as amended).
5. Member cities shall continue their management programs and ordinances pertaining to subsurface sewage treatment systems (SSTS), consistent with state and local rules and shall follow the Metropolitan Council's Waste Discharge Rules regarding requirements and timing of connections to sanitary sewer service.

4.7 ADMINISTRATION

4.7.1 Goals

- Promote local ~~regulation of~~ **connection to** water resources by delegating day-to-day management **and regulation** of the BDWMO's water resources

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

to the member cities. *The efficiency benefits of local regulation are noted in suggested goals below.*

- ~~Provide administrative guidance to member cities through this plan and the review and approval of local water management plans.~~ *Consider including as a policy instead of a goal.*
- ~~Provide periodic review of projects proposed to meet policies/goals for strategic waterbodies established in this plan.~~ *Consider including as a policy or implementation item instead of a goal.*
- Promote efficient and consistent management of water and natural resources by coordinating staff and financial resources to address common goals while maintaining regulation at the local level.
- Minimize duplication of federal and state rules and standards and redundancy of regulatory efforts by delegating regulatory authority to member cities and establishing standards complementary to and consistent with State and Federal requirements.
- ~~Supplement existing federal and state regulations with specific design standards and criteria that address unique needs of BDWMO resources described in this plan.~~ *Suggest omitting and including as part of above revision.*

4.7.2 Project Review Policies

1. The BDWMO will continue to review projects and programs of member cities as requested by member cities, or if projects warrant such consideration (e.g., TMDL studies, projects with intercommunity impacts, stormwater management and wetland ordinance revisions), and will provide comments to the member cities within a deadline specified by the city. In addition, the BDWMO requests that the member cities inform the WMO of their plans to implement projects identified in TMDL implementation plans.
2. The BDWMO will review any proposed changes to the intercommunity stormwater system to ensure that they are consistent with an approved local water management plan.
3. The BDWMO will consult with Scott WMO when reviewing proposed changes to the intercommunity stormwater system in the portion of the BDWMO tributary to the Credit River.

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

4. The BDWMO will review and approve any changes to the approved local water management plan to ensure the local plan is consistent with the BDWMO plan.
5. The BDWMO requires member cities to inform the BDWMO regarding revisions to their comprehensive plans that affect water management. The BDWMO requires that stormwater management elements of the city comprehensive plans conform to the BDWMO plan.

4.7.3 Evaluation and Accountability Policies

1. The BDWMO and the member cities will meet annually to discuss progress on the goals set the previous year and set goals for the coming year.
2. The BDWMO will use an evaluation concept that includes trend analysis, performance analysis and habitat quality analysis. This information will be presented in the annual report and newsletter.
 - Trend analysis will demonstrate water quality and other significant trends at selected waterbodies (see Section 2.10.2.1).
 - The performance analysis will evaluate the implementation of maintenance plans, capital improvement projects, programs, and other items.
 - Habitat quality analysis will be used to detect conditions that may trigger a need for management action (see Section 2.13.2).
3. The BDWMO expects the member cities to continue to share information with the BDWMO regarding monitoring/surveying of strategic waterbodies or MDNR public waters within the BDWMO and any management actions or projects performed for those waterbodies so that the BDWMO can compile an annual report.
4. The BDWMO may consider developing and/or strengthening standards through a major plan amendment (see Section 5.5) if such action is warranted. New standards may be specific to individual waterbodies or be applied to the entire watershed.

4.7.4 Financing Policies

1. The BDWMO will pay for implementation program elements through either the BDWMO general fund (the annual contributions of its member cities) or some form of cost sharing, in accordance with the joint powers agreement.

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

2. The BDWMO will apportion the operation and maintenance costs associated with BDWMO improvement projects according to the BDWMO joint powers agreement.
3. The BDWMO will fund lake water quality and habitat monitoring, and tracking of water quality and habitat trends undertaken for the strategic water resources through the BDWMO general fund.
4. The BDWMO will fund diagnostic feasibility studies for strategic waterbodies through the BDWMO general fund.
5. The BDWMO will allocate the costs of intercommunity flood control projects based strictly on hydrology (e.g., stormwater runoff rates). By using hydrologic results (comparing hydrographs), cities/watersheds that control their stormwater rates will be rewarded by having a lower percentage of the project costs allocated to them.
6. In general, the BDWMO will fund more detailed monitoring, such as that required to prepare diagnostic-feasibility studies, only when necessary to meet a BDWMO goal for a strategic water resource.
7. The BDWMO will evaluate different cost allocation methods for water quality improvement projects to ensure equitable contributions from member cities. For strategic waterbodies where the tributary watershed is completely contained within one city, the costs of water quality improvement projects will be paid for by the individual city.
8. The BDWMO will fund internal load reduction projects stemming from TMDLs for lakes with intercommunity shoreline (Crystal Lake, Keller Lake, and Lac Lavon) by building up funds over time. The capital project costs will be apportioned among the member cities according to each city's annual contribution to the BDWMO General Fund, as specified in the Joint Powers Agreement. The City of Eagan will be excluded from the cost allocation. The joint powers agreement would have to be revised to allow this cost apportionment.
9. The BDWMO will pursue grants and work with member cities to take advantage of grants sought by the member cities. In cooperation with member cities, the BDWMO may serve as the grant applicant, act as a fiscal agent for its member cities for grants that require WMO

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

sponsorship, or assist member cities acting as the applicant, and may provide matching funds for grant applications.

10. Member cities may enter into individual joint powers agreements with one another regarding cost splits for lake water quality and habitat improvement projects, as an alternative to using the methods set forth in the BDWMO joint powers agreement.
11. The member cities may request and receive reimbursement from the BDWMO (in accordance with the joint powers agreement) for the costs of water quality monitoring, studies, projects, etc., that are undertaken for strategic water resources at the direction of the BDWMO.

4.7.5 Local Water Management Plan Policies

The cities must prepare and adopt (local) water management plans that conform to the goals, policies, and standards of the BDWMO plan, including BDWMO Performance Standards listed in Section 4.9. Additionally, member city local management plans shall include the following:

1. Water quality management actions performed or proposed by the member cities for strategic and non-strategic waterbodies or MDNR public waters (see Section 4.1.2, policy 14).
2. Maps of the existing stormwater system, as defined in Section III.D of the MPCA's NPDES Phase II MS4 permit. The cities may use maps prepared for their respective MS4 permits.
3. A list or map with areas likely to see the greatest benefit from potential water quality improvement projects. The cities are encouraged to develop (in the local plan or in the future) a water quality improvement program for these areas. The components of such a program could include the following:
 - Retrofit opportunities
 - Redevelopment opportunities
 - Site-specific BMPs, such as sump manholes or prefabricated structures (e.g., Stormceptors)
 - Special/targeted street-sweeping program

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

4. Description of operating and maintenance procedures for the cities' stormwater management system, including any underground or overland storage and conveyance components of that system (e.g., pipes, channels, pond outlets).
5. The 100-year flood peak flow rates at each intercommunity conveyor and overflow point included in the city's stormwater system. Hydrographs should be provided, if available.
6. Maps and tables showing subwatershed locations and sizes, drainage patterns, outlet elevations, existing or known future outlet information (to the level necessary to achieve the goals of the member city and the BDWMO) and the following information for the 5-year (or 10-year) and 100-year events: existing or known future water levels, existing or known future flow rates, runoff volumes, and live storage volumes.
7. Maps showing subwatersheds tributary to either the Black Dog fen wetland complex or the nearby trout streams (see Figure 2-8). The cities are to maintain or reduce the size of these tributary watersheds. The BDWMO encourages member cities to reduce stormwater discharge rates and volumes within trout stream and fen watersheds whenever possible, with the goal of reducing discharge rates to pre-development levels (or lower).

4.8 EDUCATION AND PUBLIC INVOLVEMENT

4.8.1 Goals

- Increase awareness and education level of residents, local officials, and city staff regarding water resources and stormwater management **through actions coordinated with member cities, Dakota SWCD, and other partners:**
 - X presentations per year at K-12 schools
 - X electronic newsletters/social media posts presenting information on priority issues
 - X resource clean-up events or similar volunteer activities.

Suggest adding quantifiable elements to the goal.

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

- ~~Provide the public with data they need to protect water resources and to understand the impact of land use decisions on water resources.~~ *As written, this seems more of a policy or implementation item. Suggest omitting or rolling into following new goal.*
- Increase community capacity to implement water and natural resource stewardship action through:
 - increased participation in volunteer activities
 - increased participation in small-scale BMP cost share projects
 - consistently providing data through accessible media

~~The types of information to be provided may include water quality data, lake water level data, landscaping/lakescaping concepts, construction, development, and redevelopment issues and information, and education topics such as hydrology and rainwater gardens.~~ *This text will be moved to the implementation narrative.*

4.8.2 Policies

1. The BDWMO will publish an annual newsletter that summarizes its activities for public distribution.
2. The BDWMO will maintain its web site: <http://blackdogwmo.org/>. The website will be updated with meeting agendas, project updates and reports, annual reports, and educational links.
3. The BDWMO will consider the use of social media, email listserves, and other electronic means of communicating with the public.
4. The BDWMO will coordinate with member cities to use survey results (when available) or other available public feedback (e.g., public meetings) to assess the success of public education efforts.
5. The BDWMO will coordinate and communicate with lake homeowner associations and other appropriate citizen groups as needed. Communication efforts could include distributing BDWMO annual reports, lake report cards, meeting notices, and meeting agendas to these groups.
6. The BDWMO will form advisory committees on an as-needed basis.

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

7. In place of maintaining a formal Technical Advisory Committee, the BDWMO encourages the city technical staff and the agency representatives to attend the BDWMO meetings and provide the BDWMO with updates and provide input on technical issues.
8. The BDWMO and the member cities will disseminate other information to the public regarding the BDWMO, its water resources, stormwater management, etc. Possible methods include:
 - Presenting to target audiences (e.g., lake homeowners and other citizens) upon request.
 - Collecting and distributing information assembled by other groups.
 - Providing data to agencies upon request (e.g., provide MPCA and Met Council with water quality data to enter into database).
9. The BDWMO will continue to partner with the SWCD or similar organizations to achieve shared educational and water quality goals.
10. The member cities will seek citizen assistance in maintaining monitoring programs that rely on volunteers (e.g., CAMP and WHEP, see Sections 2.9.2 and 2.13.4).
11. The BDWMO relies on member cities to maintain public education and outreach programs, as outlined in their NPDES Phase II MS4 permits.

4.9 BDWMO PERFORMANCE STANDARDS

The BDWMO requires the policies, standards and criteria presented in this section, or an approved equivalent, to be incorporated into each city's local water management plan during the local plan's next revision. The BDWMO expects that member cities will implement the standards within two years of approval of the BDWMO plan, regardless of the local plan revision schedule.

4.9.1 Policies

1. Member cities shall maintain or strengthen stormwater, erosion and sediment control, wetland and shoreland regulations. The BDWMO website shall contain links to the city's regulations. The BDWMO reserves the right to review these regulations or other regulations affecting the BDWMO water resources for compliance with this Plan.

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

2. The BDWMO requires that any project (development or redevelopment of land) that results in 1 acre or more of disturbance shall be subject to/trigger the appropriate member city's stormwater management standards for rate control, volume control, and water quality, as shown in Table 3-2.
3. The BDWMO requires that all new stormwater management systems (e.g., pipes, ponds) or stormwater management systems replaced as part of redevelopment conform to the policies presented in this plan.
4. For new, redesigned, or replaced stormwater discharge points/outfalls, cities must provide pretreatment (at least grit removal) of stormwater prior to its discharge to category I-III waterbodies and wetlands, the Black Dog Fen, and trout streams.
5. The member cities are encouraged to provide or require (e.g., during redevelopment) pretreatment of stormwater runoff for existing inlets to the stormwater system that receive direct stormwater runoff (i.e., no pretreatment) and are likely to see the greatest benefit from water quality improvement BMPs.
6. The City of Lakeville will restrict the Orchard Lake outlet to maintain its peak outflow at 65 cfs to help prevent capacity and erosion problems downstream in Credit River Township and the City of Savage.
7. The BDWMO requires that the level of protection along all trunk conveyors, streams, and channels and around all wetlands, ponds, detention basins, and lakes be based on the critical-duration 100-year flood.
8. The BDWMO requires that non-trunk stormwater systems provide discharge capacity for the critical-duration runoff event that is not less than a five-year frequency event, preferably a 10-year frequency event (level of service).
9. The BDWMO allows that where the planned level of service would cause hardship in operation of a downstream system, the owner may design for a lesser level of service if the following circumstances are present:
 - The proposed new or replacement system will not have a longer life than that of the existing downstream system.

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

- It is not practical to incorporate temporary measures into the new system to mitigate the effects of the new system on the downstream system.
10. The BDWMO requires member cities to ensure that proposed development, redevelopment, and/or infrastructure projects will not overtax the existing downstream stormwater drainage system capacity in terms of rate and volume.
 11. The BDWMO requires that member cities incorporate emergency overflow structures (i.e., swales, spillways), where feasible, into pond outlet structure designs to prevent undesired flooding resulting from storms larger than the 100-year (one percent) event or plugged outlet conditions.
 12. The BDWMO requires that the member cities secure easements or fee title (or maintenance agreements for private systems) to the stormwater system as areas develop or redevelop.
 13. The BDWMO encourages the member cities to incorporate multi-stage outlets into their pond designs to control flows from smaller, less frequent storms and help maintain base flows in downstream open channels. The BDWMO will cooperate with member cities to identify or evaluate designs intended to achieve this goal.
 14. The BDWMO requires cities to set minimum building elevations at least one foot above the critical 100-year flood elevation for structures adjacent to inundation areas.
 15. The BDWMO requires the following rate control standards:
 - The peak rate of stormwater runoff from the developed subwatershed of the site shall not exceed the existing peak rate of runoff for the 2-year, 10-year, and the 100-year storm events. For new development, peak runoff rates will be maintained at or below pre-development rates for all events up to and including the 100-year storm event. “Subwatershed” may be the project site, or may be an area of greater size for which an approved local water management plan meets this criterion.
 - Rates may be further restricted when the capacity of the downstream conveyance system is limited.

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

16. The BDWMO requires member cities to limit runoff rates to levels that allow for safe and stable conveyance of flow through the watersheds in the BDWMO. To this end, the BDWMO requires the following:
 - A hydrograph method based on sound hydrologic theory shall be used to analyze stormwater runoff for the design or analysis of flows in conveyors, streams, and channels and flows to ponds and wetlands.
 - Reservoir routing procedures and critical duration 100-year runoff events shall be used for design of detention basins and outlets.
17. The BDWMO encourages member cities to limit runoff volumes by using designs that limit impervious surfaces and/or incorporate volume control practices such as infiltration to protect surface water quality and provide recharge to groundwater, except in cases where site-specific investigation suggests negative impacts resulting from limiting runoff or increasing infiltration. The BDWMO will cooperate with member cities to identify or evaluate designs intended to achieve this goal.
18. Member cities shall encourage reduced connectivity of impervious surfaces through education (e.g. Blue Thumb workshops and newsletter articles), developer agreements, or other appropriate methods.
19. The BDWMO requires member cities to limit nutrient loading into waterbodies to prevent them from impairment and/or to improve water quality so they are no longer impaired, to the extent practicable.
20. The BDWMO requires member cities to protect and maintain downstream drainage systems to provide permanent and safe conveyance of stormwater, and to reduce the frequency and/or duration of downstream flooding.
21. All projects disturbing one acre or more must submit an Erosion Control Plan to the MPCA that conforms to the MPCA's NPDES Construction Stormwater General Permit and shall incorporate the appropriate BMPs described in *Protecting Water Quality in Urban Areas* (MPCA, 2000).
22. Structural BMPs that treat stormwater must conform to standard engineering practices.

Red text = suggested new goal or edit to existing goal

Italic with yellow highlight = note for Commissioners/staff

~~Stricken text~~ = suggested deletion or omission of existing goal

23. Member cities will continue to enforce wetland management standards as defined by each member city (see Table 3-1), but including at a minimum:

- Buffer strip width requirements depending on protection level or management classification (no less than 16.5 feet).
- Limits on water level bounce during storm events depending upon wetland protection level or management classification.