Lower Rum River WMO

MEETING NOTICE

February 15, 2024 – 8:00 a.m.
Workshop Conference Room (2nd floor) - Anoka City Hall

PRELIMINARY REGULAR AGENDA

Agenda to be Finalized at Meeting

A. CALL TO ORDER
B. ROLL CALL
C. APPROVE AGENDA
D. RESIDENT'S FORUM
E. APPROVE MINUTES
   1. January 18, 2024, Regular Meeting
F. FINANCE MATTER
   1. Treasurer's Report
   2. Payment of Bills
G. NEW BUSINESS
   1. Permit #2023-21 ~ West Rum River Trail ~ Phase 1 ~ City of Anoka
   2. Permit #2023-22 ~ Trunk Watermain Imp. ~ City of Ramsey
   3. Permit #2023-23 ~ Trunk Watermain Imp./Erosion Control ~ City of Ramsey
   4. 2023 Work Results from the Anoka Conservation District (ACD)
   5. 2024 Work Contract with ACD
H. CONSIDER COMMUNICATIONS ~ None
I. REPORT OF OFFICERS & WAC ADMINISTRATION REIMBURSEMENT ~ None
J. ACD REPORT ~ None
K. OLD BUSINESS
   1. Update to the "Resolution of Administration of the Wetland Conservation Act (WCA)"
L. OUTSTANDING ITEMS/TASK CHECKLIST
M. OTHER BUSINESS
   1. JPA Review ~ Pages 13-18 ~ Wozney
N. ADJOURNMENT

NOTE: Some or all members of the Lower Rum River WMO may participate in the February 15, 2024 Lower Rum River WMO meeting by Zoom rather than by being personally present at the Lower Rum River WMO regular meeting place at the Anoka City Hall, 2015 First Avenue North, Anoka, MN 55303. Members of the public can physically attend, although there is very limited seating in the workshop conference room (2nd floor) as appropriate social distancing will be done by the Commission and visitors.

Members of the public may also monitor and participate in meetings remotely by attending via video conference (Zoom Webinar). Please contact Becky Wozney at 763.434.2030 x140 or becky.wozney@anokaswcd.org for Zoom link information.

Pending: *Permit #2016-16 ~ 2274 164th Avenue Driveway Access ~ Wetland Replacement Plan*
Permit #2022-07 ~ 54 Tiger Street ~ Ramsey

Next Meeting: *Regular meeting is March 21, 2024– at 8:00 a.m.*

*** PLEASE POST ****
PUBLIC WELCOME TO ATTEND

LOWER RUM RIVER WATERSHED MANAGEMENT ORGANIZATION

JANUARY 18, 2024

CALL TO ORDER

Chairman Debra Musgrove called the meeting to order at 8:00 a.m. in the Committee Room of Anoka City Hall.

ROLL CALL

Voting members present were: Debra Musgrove, Ramsey; Jeff Weaver, Anoka; and Valerie Holthus, Andover.

Voting members absent were: None.

Also present were: Deputy Treasurer Lori Yager, Ramsey City Engineer/Public Works Director Bruce Westby, Anoka Engineering Technician Ben Nelson, Andover Natural Resources Technician Kameron Kytonen, Heather Lau of Barr Engineering, Becky Wozney of Anoka Conservation District, and Colleen Werdien of Anoka Conservation District.

APPROVE AGENDA

Motion was made by Weaver, seconded by Holthus, to approve the January 18, 2024 agenda as presented. Vote: 3 ayes, 0 nays. Motion carried.

RESIDENT'S FORUM

None.

APPROVE MINUTES

December 21, 2023 Regular Meeting

Motion was made by Holthus, seconded by Weaver, to approve the December 21, 2023 Regular Meeting minutes as presented. Vote: 3 ayes, 0 nays. Motion carried.

FINANCE MATTERS

Treasurer's Report

Yager presented the Treasurer's Report for the period ending December 31, 2023. Account balances for the period were: Checking, $157,755.07; less permit account balance of ($35,582.80); less Generation Plan reserves of ($29,493.43), for a total balance of $92,678.84.

Weaver noted an inconsistency of $1,000 between the available balance shown in the printed agenda and that presented by Yager. Yager clarified that the correct balance was $93,678.84.

Musgrove referenced a miscellaneous amount of $77 and asked for clarification. Yager reported that is a refund from the League of Minnesota Cities for the WMO's insurance.

Motion was made by Weaver, seconded by Holthus, to accept the Treasurer's Report for the period ending December 31, 2023. Vote: 3 ayes, 0 nays. Motion carried.

Payment of Bills

Yager presented the payment of bills for TimeSaver in the amount of $705.52 (December 2023 secretarial services), RTY Consulting in the amount of $2,890 (4th quarter 2023 accounting services), and League of Minnesota Cities in the amount of $2,609 (annual insurance premium).

Motion was made by Holthus, seconded by Weaver, to authorize payment as presented and indicated above. Vote: 3 ayes, 0 nays. Motion carried.

NEW BUSINESS

LRRWMO Permit #2023-19 ~ CSAH 9 Reconstruction ~ Andover

Kytonen reviewed the January 12, 2024 memo from Barr Engineering in which Barr Engineering recommends that the LRRWMO approve of the permit for this project subject to 14 conditions detailed in the memorandum.

Lau provided a brief overview of some of the proposed conditions of approval and details of the review that Barr Engineering completed.

Motion was made by Holthus, seconded by Weaver, to approve Permit #2023-19, CSAH 9, Andover, subject to 14 conditions as detailed in the Barr Engineering memorandum dated January 12, 2024. Vote: 3 ayes, 0 nays. Motion carried.

LRRWMO Permit #2023-22 ~ Trunk Watermain Imp. ~ City of Ramsey

Westby provided details on the permit request and project. He stated that the request was for a no-loss determination under WCA. He stated that there were some issues with submittals as Linton is out on medical leave and therefore staff will work to resolve those issues.

Wozney commented that she did not believe that there would be an issue with the no-loss determination once the required submittals are received. She was confident that this would be ready for a decision at the February meeting. She stated that no action is necessary at this meeting.

Westby commented that the City does have a contractor onboard that is ready to start this spring and Ramsey will do everything necessary to have this prepared for the February agenda. He stated that he was also made aware that an erosion control permit would be needed for the project as well, which he plans to have ready for that meeting as well. He confirmed that this delay would not have an impact on the proposed project schedule.

Update to the "Resolution of Administration of the Wetland Construction Act (WCA)"

Wozney reviewed her January 2, 2024 memorandum and stated that based on working with over a dozen LGUs for the past 25 years, her opinion would be to designate the purely technical decisions to be made by the designated consultant. These decisions are generally not controversial and are time-sensitive since applicants are at a standstill until these are approved. Keeping the remaining decisions with the Board of Managers would be appropriate. She reviewed the proposed changes.

Weaver stated that the only concern that he would have would be that it would take away the ability for a concerned resident to have a voice. He stated that it would be helpful to have examples to better support his decision. He asked if that would eliminate the notification that would typically be provided to neighboring properties. Wozney replied that notice would still be provided for applications. She noted that the resolution would need to be updated either way and she could develop a template for the alternative as well.

Musgrove agreed that this needs to be updated and agreed with the comments expressed by Weaver. She asked how the public would be made aware of these requests. She stated that if the administrative approval is provided, she would still like the Board to be made aware of the approvals. She also agreed that it would be helpful to have the examples as mentioned by Weaver. She stated that it would also be helpful to have potential positive and negative impacts of the decision to consider.

Weaver stated that there were concerned neighbors on Lake Itasca that spoke to the WMO and stated that if there were something to be approved administratively, he would want it to be transparent for residents. Wozney stated that she can gather that information to continue discussion on this topic, providing two templates for the Board to consider. Weaver commented that he is not against administrative approval of certain items, but just wants to ensure things would remain transparent and there would not be an unintended negative effect for residents.

City of Andover – Project Closeout/Return of Remaining Permit Escrows

Kytonen reviewed his requests for project closeout and return of remaining permit escrows.

Weaver stated that a refund is being requested but the letter does not include the actual dollar amounts, acknowledging that Yager will be able to determine those amounts. Kytonen agreed that in the future he could include those dollar amounts in his letter.

Musgrove asked if Ramsey and Anoka include dollar amounts in their closeout letters. Westby commented that to the best of his knowledge Ramsey does not include dollar amounts. He asked if calling Yager to request those dollar amounts would cause an additional charge against those permits for that time. Nelson commented that Anoka does not include the dollar amounts in its closeout letters. He stated that perhaps they could use the spreadsheet from the previous packet to determine those dollar amounts.

Motion was made by Holthus, seconded by Weaver, to approve the closeout and return of remaining escrow for Permits #2017-29 Norlex Turf Black Dirt Stockpile, #2018-17 Duane Kuiken, #2018-11 City of Andover Water Management Update, #2021-03 Andover Village, #2020-05 Wesp Property, #2021-24 CSAH 58, #2022-18 Dalske Woodlands Boardwalk, #2014-15 Country Oaks No. Utility, #2018-10 Jeff Bergeron, and #2019-20 Meadows at Petersen Farms. Vote: 3 ayes, 0 nays. Motion carried.

CONSIDER COMMUNICATIONS ~ None

REPORT OF OFFICERS & WAC ADMINISTRATION REIMBURSEMENT
Kytonen presented the Year 2023 Fourth Quarter Report for the City of Andover.

Holthus provided additional details on a proposal for a trail that she has drafted related to the CR 59 turn lane project as well as the input that she received from the Andover City Engineer. Weaver commented that Anoka has been successful in gaining grant funds through the Safe Routes to Schools program and encouraged Andover to apply.

Nelson presented the Year 2023 Fourth Quarter Report for the City of Anoka.

Westby presented the Year 2023 Fourth Quarter Report for the City of Ramsey.

Motion was made by Holthus, seconded by Weaver, to approve the Year 2023 Fourth Quarter Report for the City of Anoka, City of Ramsey, and City of Andover, as presented. Vote: 3 ayes, 0 nays. Motion carried.

Nelson referenced the close out of permits that occurred under New Business on today's agenda and noted that typically occurs with the Quarterly Reports. Kytonen noted that the timing was a coincidence as to when he reviewed the list and it just happened to be on the same agenda as the Quarterly Reports. The Board discussed whether that should be reviewed under Finance Matters on future agendas as Yager would then be present for that discussion.

ACD QUARTERLY REPORT
2023 Fourth Quarter Report
Wozney presented the Year 2023 Fourth Quarter Report for ACD.

OLD BUSINESS ~ None

OUTSTANDING ITEMS/TASK CHECKLIST
Wozney reviewed the outstanding items and task checklist.

Holthus left the meeting.

OTHER BUSINESS
JPA Review ~ Pages 9 - 12
Musgrove continued the review, suggesting that subdivision four be further divided into subsections.

Wozney asked for direction from the Board on whether the next step would be to have the cities review the proposed changes, or whether it should go to the attorney first. Musgrove commented that the cities may prefer to see the comments from the attorney first. Wozney commented that she believes that they are at a point where this should go forward to the attorney for review. Musgrove noted that there is one more section left for review but did not believe there would be extra time on the February agenda and perhaps that comes to the March meeting for the remainder of the review and the attorney after that.

ADJOURNMENT

A motion was made by Weaver, seconded by Musgrove, to adjourn the meeting. Vote: 2 ayes, 0 nays. Motion carried.

Time of adjournment: 9:03 a.m.

Respectfully submitted,

Amanda Staple
Administrative Secretary

Lower Rum River WMO

Lower Rum River Watershed Management Org Board

Debra Musgrove, Chair
Valerie Holthus, Vice Chair
Jeff Weaver, Treasurer

Meeting Date: February 15, 2024

Item Description: Treasurer Report

Lower Rum River Watershed Management Organization Board (LRRWMO):

Attached are the monthly financial reports for the period ending January 31, 2024. In addition, the detailed permit list through February 04, 2024, and bill list for February 2024 are included. Quickbooks reporting is on an accrual basis.

LRRWMO has a total current cash balance of $155,959.86 less the net permit balance of ($28,706.95) less Generation Plan reserves of ($29,493.43) leaving an available balance of $97,759.48.

2024 Revenues - $4,826.28 2024 Expenditures - $3,552.32

The permit list reflects outstanding receivables highlighted in yellow of ($8,218.47). Invoices have been sent.

The bill list for January includes 8 checks for a total of $12,686.17. The checks include expenditures for December 2023 of $,5,251, January 2024 of $943.32 and permit reimbursements of $6,491.85.

Respectfully Submitted,

Lori Yager
Deputy Treasurer
RTY Consulting
612-518-7641
kayyag@gmail.com

Lower Rum River Watershed Management Organization

102 4 M FUND - PMA, Period Ending 01/31/2024

RECONCILIATION REPORT

Reconciled on: 02/02/2024

Reconciled by: Lori Yager

Any changes made to transactions after this date aren't included in this report.

Summary

	USD
Statement beginning balance	178,690.85
Interest earned	708.81
Checks and payments cleared (10)	-20,635.28
Deposits and other credits cleared (5)	3,700.50
Statement ending balance	162,464.88
Uncleared transactions as of 01/31/2024	-6,505.02
Register balance as of 01/31/2024	155,959.86
Cleared transactions after 01/31/2024	0.00
Uncleared transactions after 01/31/2024	-12,686.17
Register balance as of 02/02/2024	143,273.69

Details

Checks and payments cleared (10)

DATE	TYPE	REF NO.	PAYEE	AMOUNT (USD)
11/16/2023	Bill Payment	2628	NIK Management	-317.95
12/20/2023	Bill Payment	2642	Anoka Conservation District	-15,404.36
12/20/2023	Bill Payment	2641	TimeSaver Off Site Secretarial...	-750.23
12/21/2023	Check	2644	PSD, LLC	-363.00
12/21/2023	Check	2643	Mark Rice	-441.00
12/21/2023	Check	2650	Green Valley Greenhouse	-360.00
12/21/2023	Check	2645	E. John Dobbs	-37.00
12/21/2023	Check	2647	City of Ramsey, MN	-1,600.56
12/21/2023	Check	2648	Radmacher Family PTSHP, LLP	-497.42
12/21/2023	Check	2649	Short Elliott Hendrickson Inc.	-863.76
Total				-20,635.28

Deposits and other credits cleared (5)

DATE	TYPE	REF NO.	PAYEE	AMOUNT (USD)
01/02/2024	Sales Receipt	117967	City of Ramsey	1,150.00
01/25/2024	Receive Payment		Waltek, Inc.	330.00
01/25/2024	Sales Receipt	590	City of Ramsey	850.00
01/25/2024	Sales Receipt	589	City of Anoka	850.00
01/25/2024	Receive Payment		City of Andover	520.50
Total				3,700.50

Additional Information

Uncleared checks and payments as of 01/31/2024

DATE	TYPE	REF NO.	PAYEE	AMOUNT (USD)
11/16/2023	Check	2636	Josh Peterson	-300.50
01/18/2024	Bill Payment	2653	League of Minnesota Cities	-2,609.00
01/18/2024	Bill Payment	2651	TimeSaver Off Site Secretarial...	-705.52
01/18/2024	Bill Payment	2652	RTY Consulting	-2,890.00
Total				-6,505.02

Uncleared checks and payments after 01/31/2024

DATE	TYPE	REF NO.	PAYEE	AMOUNT (USD)
02/02/2024	Bill Payment	2657	Anoka Conservation District	-1,626.50
02/02/2024	Bill Payment	2658	BARR Engineering	-3,624.50
02/02/2024	Bill Payment	2659	TimeSaver Off Site Secretarial...	-943.32
02/15/2024	Check	2661	Duane Kuiken	-92.92
02/15/2024	Check	2664	City of Andover	-538.25
02/15/2024	Check	2660	Dennis Kuiken	-816.00
02/15/2024	Check	2662	JD Andover Holding, LLC:19-...	-4,137.86
02/15/2024	Check	2663	Anoka County	-906.82
Total				-12,686.17

Lower Rum River Watershed Management Organization
Budget vs. Actuals: 2024 Original - FY24 P&L
January 2024

	January Actual	Actual	Total Budget	% of Budget
Revenue				
320 City Assessments	-	-	100,000.00	0.00%
330 Intergovernmental Revenue	-	-	1,500.00	0.00%
340 Miscellaneous	-	-		
Total 350 Permit Revenue	4,137.47	4,137.47	39,000.00	10.61%
Sales		-		
Total Revenue	**4,137.47**	**4,137.47**	**140,500.00**	**2.94%**
Expenditures				
402 Accountant	-	-	8,000.00	0.00%
Total 410 Engineering	-	-	52,500.00	0.00%
420 Insurance	2,609.00	2,609.00	2,800.00	93.18%
445 Office Supplies & Software	-	-	715.00	0.00%
455 Postage, copying, etc.	58.32	58.32	1,300.00	4.49%
475 Secretarial Services	885.00	885.00	9,500.00	9.32%
490 Miscellaneous expense			3,670.00	0.00%
500 Water Management Projects				
505 Annual report to BWSR		-	900.00	0.00%
510 Anoka Co. Water Resource Outr Coll		-	3,680.00	0.00%
520 Lake Level Monitoring		-	1,400.00	0.00%
525 Lake Water Quality Monitoring		-	2,400.00	0.00%
526 River or Project Tour			1,000.00	
530 Rum River Water Quality Monitoring		-	2,180.00	0.00%
535 Stream Biomonitoring with Students		-	1,000.00	0.00%
550 Water Quality Cost Share Program		-	6,000.00	0.00%
555 Water Resource Coordinator		-	15,000.00	0.00%
560 Web site management		-	960.00	0.00%
565 Wetland Education - (newsletters)		-	1,120.00	0.00%
570 Wetland Monitoring		-	2,175.00	0.00%
575 Writing grant application fees		-	1,100.00	0.00%
585 WBIF Grant		-	18,600.00	-
Total 500 Water Management Projects	-	-	57,515.00	0.00%
Legal & Professional Services	-	-	4,000.00	0.00%
435 Legal			-	
Total Legal & Professional Services	-	-	**4,000.00**	**0.00%**
Total Expenses	**3,552.32**	**3,552.32**	**140,000.00**	**2.54%**
Net Operating Income	585.15	585.15	500.00	117.03%
Other Income				
375 Interest income	708.81	708.81	2,500.00	28.35%
Total Other Income	**708.81**	**708.81**	**2,500.00**	**28.35%**
Net Other Income	**708.81**	**708.81**	**2,500.00**	**28.35%**
Net Income (Loss)	**1,293.96**	**1,293.96**	**3,000.00**	**43.13%**

Lower Rum River Water Management Organization
Treasurer's Statement of Cash Receipts and
Disbursements for the Period of
January 31, 2024

Checking/Savings Accounts with 4M Fund:				
Balance			$	157,755.07
Receipts:				
	City of Ramsey	Permit #23-22	$	1,150.00
	City of Anoka	Permit #23-21	$	850.00
	City of Ramsey	Permit #23-23	$	850.00
	City of Andover	Permit #23-17	$	520.50
	Waltek		$	330.00
	Interest		$	708.81
Total Receipts			$	4,409.31
Disbursements:	Check #	Payable		
	2654	TimeSaver Off Site Sec.	$	(705.52)
	2655	RTY Consulting	$	(2,890.00)
	2656	League of Minnesota Cities	$	(2,609.00)
Total Disbursements			$	(6,204.52)
Balance			**$**	**155,959.86**
Less Permit Account Balance				28,706.95
Less 2018 4th Generation Plan Reserve = $110,000				29,493.43
Available Balance			$	97,759.48

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION
SUMMARY OF PERMIT FEE APPLICATIONS
YEAR ENDING DECEMBER 31, 2024

	Deposits		Expenditures				Excess Deposits	Returned	Balance as of
		Permit Fee	Barr Engineering		Administrative	Total	Over Expenditures	to Applicant	February 4, 2024
Town Center A.U.A.R.	04/29/03	$ 500.00	06/19/03	$ 4,471.08	$ 50.00	$ 25,134.20	$ -	$ -	$ -
Ramsey	06/19/03	$ 5,000.00	07/17/03	$ 631.68					
03-07	10/10/03	$ 2,500.00	08/21/03	$ 1,383.73					
	10/15/03	$ 1,500.00	09/18/03	$ 760.00					
	11/21/03	$ 1,500.00	10/16/03	$ 1,921.28					
Glenn Rehbein	04/21/04	$ 2,000.00	11/20/03	$ 1,415.99					
Excavating	02/04/05	$ 5,000.00	12/18/03	$ 656.22					
bond	10/20/06	$ 70.95	01/15/04	$ 84.00					
dated	11/17/06	$ 80.00	03/18/04	$ 719.00					
5/26/05	09/24/07	$ 72.00	04/15/04	$ 42.00					
Paid	11/26/07	$ 128.00	05/20/04	$ 887.35					
	04/25/08	$ 16.00	06/17/04	$ 3,038.03					
Bond paid	01/22/09	$ 208.00	07/15/04	$ 490.50					
59,000.00	04/21/09	$ 320.00	08/19/04	$ 426.00					
2/18/2011	07/24/09	$ 72.00	09/16/04	$ 10.50					
Country Oaks No. Utility	11/21/14	$ 175.00	12/26/14	$ 544.00	$ 175.00	$ 914.50	$ -	$ -	$ -
14-15	05/05/15	$ 697.00	01/26/15	$ 153.00					
Andover	08/07/15	$ 42.50	04/10/15	$ 42.50					Closed in January 2024
Future Public Works Site	04/22/15	$ 800.00	05/04/15	$ 127.50	$ 100.00	$ 295.50	$ 504.50	$ -	$ 504.50
15-04			06/08/15	$ 51.00					
Anoka			09/23/15	$ 17.00					
Northfork	01/08/16	$ 800.00	02/17/16	$ 357.00	$ 100.00	$ 1,356.54	$ -	$ -	$ -
Alpine Add.	08/11/16	$ 403.54	06/07/16	$ 263.50					
15-19	09/08/16	$ 136.00	06/27/16	$ 483.04					
Ramsey	06/13/18	$ 17.00	08/05/16	$ 136.00					
			04/25/18	$ 17.00					
2274 - 164th	09/22/16	$ 800.00	10/25/16	$ 161.50	$ 100.00	$ 2,485.24	$ -	$ -	**$ -**
Avenue	04/25/17	$ 867.38	11/28/16	$ 708.88					
16-16	01/31/18	$ 68.00	12/29/16	$ 697.00			Invoice #500 to new owners, Shawn & Stephanie Mars - 6-20-22		
Andover	08/17/18	$ 17.00	08/11/17	$ 68.00					
	05/09/23	$ 732.86	04/25/18	$ 17.00					
			09/16/21	$ 59.50					
			11/29/21	$ 25.50					
			12/13/21	$ 251.90					
			01/19/22	$ 51.00					
			3/7/2022	$ 42.50					
Invoice sent to new owners, Shawn & Stephanie Mars - 6-10-22			7/18/2022	$ 302.46					
Eastview Meadows	04/07/17	$ 800.00	05/18/17	$ 433.50	$ 100.00	$ 610.00	$ 190.00	$ -	$ 190.00
17-06			07/12/17	$ 76.50					
Anoka									
Norlex Turf	10/27/17	$ 1,800.00	12/29/17	$ 391.00	$ 100.0ge 1	$ 984.00	$ 816.00	$ 816.00	$ -
Black Dirt			01/30/18	$ 450.50					
17-29			02/19/18	$ 42.50					
Andover									Closed in January 2024

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION
SUMMARY OF PERMIT FEE APPLICATIONS
YEAR ENDING DECEMBER 31, 2024

	Deposits		Expenditures				Excess Deposits	Returned	Balance as of
		Permit Fee	Barr Engineering		Administrative	Total	Over Expenditures	to Applicant	February 4, 2024
Bunker Lake & Puma St Impr 18-03 Ramsey	04/06/18	$ 800.00	05/14/18	$ 391.00	$ 100.00	$ 491.00	$ 309.00	$ -	$ 309.00
Jeff Bergeron Estates at Cedar Ridge 18-10 Andover	07/30/18	$ 800.00	08/21/18	$ 119.00	$ 100.00	$ 2,417.13	$ -	$ -	$ -
	2/4/2019	$ 753.50	09/27/18	$ 379.13					
	09/11/19	$ 829.63	10/27/18	$ 527.00					
	11/14/19	$ 34.00	11/12/18	$ 187.00					
			12/28/18	$ 425.00					
			01/25/19	$ 68.00					
			03/31/19	$ 127.50					
			07/18/19	$ 450.50					
			09/09/19	$ 34.00					Closed in January 2024
City of Andover Water Mgmt Update 18-11 Andover	07/30/18	$ 407.50	08/21/18	$ 127.00	$ -	$ 407.50	$ -	$ -	$ -
	Billed to Admin		09/27/18	$ 178.50					
			10/24/18	$ 102.00					
									Closed in January 2024
Duane Kuiken 1565 161st Ave NW 18-17 Andover	10/10/18	$ 875.00	11/12/18	$ 144.50	$ 100.00	$ 2,308.26	$ 92.92	$ 92.92	$ -
	8/12/2019	$ 1,245.49	12/28/18	$ 650.58					Billed 7/18
	11/12/19	$ 51.77	01/25/19	$ 212.50					Inv 432-10/18/19
	03/16/21	$ 51.00	01/28/19	$ 365.50					Inv. 473 - 03/01/21
	05/17/21	$ 85.00	03/31/19	$ 629.00					Inv. 484 - 07/01/21
	03/21/22	$ 92.92	04/08/19	$ 51.00					
			Late Fee	$ 18.41					
			Late Fee	$ 0.77					
			02/10/21	$ 51.00					
			03/02/21	$ 85.00					Closed in January 2024
City of Anoka Anoka Unfiltration Credits 18-22 Anoka	01/11/19	$ 800.00	01/25/19	$ 520.40	$ 100.00	$ 620.40	$ 179.60	$ -	$ 179.60
BRB Development The Lock-Up 18-25 Anoka	01/18/19	$ 800.00	03/31/19	$ 314.50	$ 100.00	$ 414.50	$ 385.50	$ -	$ 385.50
6601 McKinley St NW ACE Transfer Station Facility 19-01 Ramsey	04/22/19	$ 800.00	06/20/19	$ 1,096.50	$ 100.00	$ 1,196.50	$ -	$ -	$ -
	9/11/2019	$ 396.50							

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION
SUMMARY OF PERMIT FEE APPLICATIONS
YEAR ENDING DECEMBER 31, 2024

	Deposits		Expenditures				Excess Deposits	Returned	Balance as of
		Permit Fee	Barr Engineering		Administrative	Total	Over Expenditures	to Applicant	February 4, 2024
Suite Living Senior of Ramsey **19-16** **Ramsey**	08/22/19	$ 800.00	10/22/19	$ 408.00	$ 100.00	$ 508.00	$ 292.00	$ -	$ 292.00
Meadows at Petersen Farms **19-20** **Andover**	09/03/19	$ 75.00	10/22/19	$ 756.14	$ 100.00	$ 3,338.14	$ 4,137.86	$ 4,137.86	$ -
	9/3/2019	$ 2,000.00	11/22/19	$ 221.00					
	06/30/20	$ 5,401.00	07/27/20	$ 306.00					
			08/27/20	$ 357.00					
			10/08/20	$ 1,598.00					Closed in January 2024
Pearson Farm South **8846 Hwy 10 NW** **19-23** **Ramsey**	10/17/19	$ 2,800.00	11/22/19	$ 352.18	$ 175.00	$ 807.68	$ 1,992.32	$ -	$ 1,992.32
			12/19/19	$ 280.50					
City of Ramsey **Ramsey Villas** **19-27** **Ramsey**	10/28/19	$ 1,500.00	11/22/19	$ 360.68	$ 175.00	$ 1,649.18	$ 800.82	$ -	$ 800.82
	10/28/19	$ 150.00	12/19/19	$ 306.00					
	08/24/20	$ 800.00	10/16/20	$ 467.50					
			11/20/20	$ 340.00					
Anoka-Hennepin School Dist. **Fred Moore Campus** **19-28** **Anoka**	10/28/19	$ 800.00	12/19/19	$ 153.00	$ 100.00	$ 958.50	$ -	$ -	$ -
	02/25/21	$ 116.00	01/20/20	$ 144.50					
	01/11/22	$ 42.50	02/21/20	$ 127.50					
			03/23/20	$ 17.00					
			04/13/20	$ 59.50					
			04/30/20	$ 17.00					
			06/02/20	$ 42.50					
			11/20/20	$ 212.50					
			12/11/20	$ 42.50					
			9/16/2021	$ 42.50					
Riverside **20-02** **Anoka**	02/14/20	$ 1,875.00	03/23/20	$ 102.00	$ 175.00	$ 1,441.50	$ 433.50	$ -	$ 433.50
			04/13/20	$ 348.50					
			04/30/20	$ 739.50					
			06/02/20	$ 76.50					
Wesp Property **20-05** **Andover**	05/20/20	$ 1,575.00	07/07/20	$ 348.50	$ 175.00	$ 3,330.73	$ -	$ -	$ -
	06/30/20	$ 800.00	07/27/20	$ 1,158.23					
	10/27/20	$ 828.23	08/27/20	$ 527.00					
	12/18/20	$ 127.50	10/08/20	$ 994.50					
			10/16/20	$ 127.50					Closed in January 2024
The Preserve at Northfork **20-08** **Ramsey**	08/05/20	$ 800.00	10/08/20	$ 578.00	$ 100.00	$ 678.00	$ 122.00	$ -	$ 122.00
Meadows at Petersen Farms **(Phase 2)** **20-09** **Andover**	08/10/20	$ 800.00	10/16/20	$ 1,827.50	$ 100.00	$ 1,927.50	$ -	$ -	$ -
	12/14/20	$ 1,127.50							

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION
SUMMARY OF PERMIT FEE APPLICATIONS
YEAR ENDING DECEMBER 31, 2024

	Deposits		Expenditures				Excess Deposits	Returned	Balance as of
		Permit Fee	Barr Engineering		Administrative	Total	Over Expenditures	to Applicant	February 4, 2024
Ramsey Villas North **20-10** **Ramsey**	08/11/20	$ 1,875.00	10/08/20	$ 204.00	$ 175.00	$ 914.75	$ 960.25	$ -	$ 960.25
			10/16/20	$ 535.75					
Hampton Townhomes **20-11** **Ramsey**	08/21/20	$ 800.00	08/21/20	$ 800.00	$ 100.00	$ 1,452.50	$ (652.50)	$ -	$ (652.50) Inv. 463 - 10/16/20 Inv. 469 - 12/01/20 emailed 02/01/21 emailed 03/01/21
			10/08/20	$ 85.00					
			10/16/20	$ 467.50					
Northfork Meadows	03/01/21	$ 800.00	03/31/21	$ 442.00	$ 100.00	$ 3,185.50	$ -	$ -	$ -
	8/17/2021	$ 1,399.50	04/27/21	$ 739.50					
21-02	01/11/22	$ 161.50	05/26/21	$ 544.00					
Ramsey	07/31/22	$ 824.50	06/23/21	$ 374.00					
			07/29/21	$ 892.50					
			08/30/21	$ 93.50					
Andover Village	02/19/21	$ 800.00	3/2/2021	$ 127.50	$ 100.00	$ 1,621.50	$ -	$ -	$ -
	12/22/21	$ 694.00	03/31/21	$ 272.00					
21-03	07/31/22	$ 127.50	04/27/21	$ 1,088.00					
Andover			05/26/21	$ 34.00					Closed in January 2024
VOA Anoka Sr. Housing	04/15/21	$ 800.00	04/27/21	$ 127.50	$ 100.00	$ 975.50	$ -	$ -	$ -
21-06	02/28/22	$ 175.50	05/26/21	$ 569.50					
Anoka			06/23/21	$ 178.50					
US 10 and 56	04/26/21	$ 1,575.00	05/26/21	$ 1,079.66	$ 175.00	$ 1,815.66	$ -	$ -	$ -
21-07	01/11/22	$ 206.50	06/23/21	$ 561.00					
Ramsey	07/31/22	$ 34.16							
Pinewski 4th Addition	06/04/21	$ 800.00	06/23/21	$ 170.00	$ 100.00	$ 559.00	$ 241.00	$ -	$ 241.00
21-09			07/29/21	$ 187.00					
Anoka			08/30/21	$ 102.00					
Bunker Lake Ind. Park Bldg 4	06/17/21	$ 800.00	07/29/21	$ 612.00	$ 100.00	$ 831.00	$ -	$ -	$ -
21-10	12/29/21	$ 31.00	08/30/21	$ 119.00					
Ramsey									
William Woods	06/17/21	$ 3,875.00	06/23/21	$ 85.00	$ 275.00	$ 3,092.02	$ 782.98	$ -	$ 782.98
21-12			07/29/21	$ 714.00					
			08/30/21	$ 1,091.52					
Ramsey			09/16/21	$ 858.50					
			11/12/21	$ 68.00					
Ramsey Spec Ind. Bldgs	06/18/21	$ 800.00	07/29/21	$ 569.50	$ 100.00	$ 788.50	$ 11.50	$ -	$ 11.50
21-13			08/30/21	$ 119.00					
Ramsey									

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION
SUMMARY OF PERMIT FEE APPLICATIONS
YEAR ENDING DECEMBER 31, 2024

	Deposits		Expenditures				Excess Deposits	Returned	Balance as of
		Permit Fee	Barr Engineering		Administrative	Total	Over Expenditures	to Applicant	February 4, 2024
Lynwood	07/23/21	$ 1,500.00	08/30/21	$ 170.00	$ 175.00	$ 2,752.08	$ -	$ -	$ -
21-16	08/11/21	$ 75.00	09/16/21	$ 418.08					
Ramsey	10/25/21	$ 800.00	11/12/21	$ 246.50					
	07/31/22	$ 79.58	11/29/21	$ 467.50					
	03/06/23	$ 297.50	12/13/21	$ 807.50					
			01/19/22	$ 170.00					
			11/04/22	$ 297.50					
6841 173rd Ave NW	08/17/21	$ 1,575.00	09/16/21	$ 239.58	$ 175.00	$ 712.08	$ 862.92	$ -	$ 862.92
21-18			11/12/21	$ 297.50					
Ramsey									
Trott Brook North	08/17/21	$ 2,075.00	09/16/21	$ 325.14	$ 175.00	$ 18,792.48	$ -	$ -	$ -
21-19	10/18/21	$ 10,295.50	11/12/21	$ 544.00					
	12/03/22	$ 4,949.48	11/29/21	$ 1,003.00					
Ramsey	09/01/23	$ 127.50	12/13/21	$ 1,495.84					
	11/20/23	$ 1,345.00	01/19/22	$ 1,802.00					
			03/07/22	$ 2,006.00					
			03/16/22	$ 374.00					
			04/06/22	$ 3,439.00					
			05/05/22	$ 2,356.50					
			06/15/22	$ 892.50					
			07/18/22	$ 833.00					
			07/18/22	$ 459.00					
			08/12/22	$ 1,241.00					
			09/09/22	$ 374.00					
			12/02/22	$ 127.50					
			04/21/23	$ 75.00					
			05/19/23	$ 1,035.00					
			06/16/23	$ 235.00					
HOM Anoka Addition	09/23/21	$ 800.00	11/12/21	$ 170.00	$ 100.00	$ 1,681.00	$ -	$ -	$ -
	03/21/22	$ 277.50	11/29/21	$ 340.00					
21-23	07/31/22	$ 391.00	12/13/21	$ 85.00					
Anoka	03/06/23	$ 212.50	01/19/22	$ 722.50					
			03/07/22	$ 51.00					
			07/18/22	$ 127.50					
			08/12/22	$ 85.00					
CSAH 58 (177th Ave NW)	09/28/21	$ 2,075.00	11/12/21	$ 262.18	$ 175.00	$ 1,168.18	$ 906.82	$ 906.82	$ -
			11/29/21	$ 204.00					
21-24			12/13/21	$ 255.00					
Andover			01/19/22	$ 229.50					
			03/07/22	$ 42.50					Closed in January 2024
CenterPoint 173rd Ave	11/18/21	$ 1,075.00	12/13/21	$ 327.84	$ 175.00	$ 1,012.84	$ 62.16	$ -	$ 62.16
21-28			01/19/22	$ 467.50					
Ramsey			03/07/22	$ 42.50					
Riverstone South	11/18/21	$ 800.00	01/19/22	$ 425.00	$ 100.00	$ 1,756.50	$ -	$ -	$ -
21-29	07/31/22	$ 956.50	03/07/22	$ 136.00					
Ramsey			03/16/22	$ 1,095.50					

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION
SUMMARY OF PERMIT FEE APPLICATIONS
YEAR ENDING DECEMBER 31, 2024

	Deposits		Expenditures				Excess Deposits	Returned	Balance as of
		Permit Fee	Barr Engineering		Administrative	Total	Over Expenditures	to Applicant	February 4, 2024
Andover Crossing - Apt	12/09/21	$ 800.00	03/07/22	$ 382.50	$ 100.00	$ 1,188.00	$ -	$ -	$ -
21-30	07/31/22	$ 388.00	03/16/22	$ 663.00					
Andover			05/05/22	$ 42.50					
Andover Crossing - Commerical	12/10/21	$ 800.00	03/07/22	$ 170.00	$ 100.00	$ 635.50	$ 164.50	$ -	$ 164.50
21-31			03/16/22	$ 323.00					
Andover			05/05/22	$ 42.50					
Andover Crossing - Sr. Housing	12/29/21	$ 800.00	01/19/22	$ 212.50	$ 100.00	$ 1,060.50	$ -	$ -	$ -
21-32	07/31/22	$ 260.50	03/07/22	$ 297.50					
Andover			03/16/22	$ 323.00					
			04/06/22	$ 85.00					
			05/05/22	$ 42.50					
Pine Hills N Wetland Restor WCA	02/22/22	$ 1,075.00	04/06/22	$ 518.50	$ 175.00	$ 778.50	$ 296.50	$ -	$ 296.50
22-02			05/05/22	$ 85.00					
Andover									
Pine Hills N Wetland Restor Eros	02/22/22	$ 800.00	04/06/22	$ 340.00	$ 100.00	$ 440.00	$ 360.00	$ -	$ 360.00
22-03									
Andover									
AKA 54 Tiger St. Electric Line	07/31/22	$ 1,075.00	07/18/22	$ 671.47	$ 75.00	$ 1,201.97	$ (126.97)		**$ (126.97)**
22-07			07/18/22	$ 34.00					
Ramsey			08/12/22	$ 119.00					
			09/09/22	$ 25.50					
			10/07/22	$ 51.00					
			11/04/22	$ 17.00					
			12/02/22	$ 34.00					
			10/06/23	$ 175.00					
Pact Charter School - Wetland	05/13/22	$ 1,575.00	06/15/22	$ 331.50	$ 175.00	$ 1,237.47	$ 337.53		$ 337.53
22-08			07/18/22	$ 509.97					
Ramsey			07/18/22	$ 34.00					
			09/09/22	$ 187.00					
Petersen Farms Phase 3	05/03/22	$ 1,575.00	06/15/22	$ 408.00	$ 175.00	$ 1,243.47	$ 331.53		$ 331.53
22-09			07/18/22	$ 484.47					
Andover			07/18/22	$ 34.00					
			11/04/22	$ 17.00					
			08/11/23	$ 125.00					

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION
SUMMARY OF PERMIT FEE APPLICATIONS
YEAR ENDING DECEMBER 31, 2024

	Deposits		Expenditures				Excess Deposits	Returned	Balance as of
		Permit Fee	Barr Engineering		Administrative	Total	Over Expenditures	to Applicant	February 4, 2024
Petersen Farms Site Development	11/03/22	$ 800.00	11/04/22	$ 552.50	$ 100.00	$ 14,094.75	$ -		$ -
22-09R	03/13/23	$ 2,215.00	12/04/22	$ 1,343.00					
Andover	06/12/23	$ 465.50	12/31/22	$ 765.00					
	07/21/23	$ 3,135.00	01/27/23	$ 255.00					
	10/02/23	$ 4,155.00	02/24/23	$ 450.00					
	12/14/2023	$ 3,324.25	03/24/23	$ 15.00					
			04/21/23	$ 375.00					
			05/19/23	$ 495.00					
			06/16/23	$ 2,265.00					
			07/14/23	$ 630.00					
			08/11/23	$ 3,525.00					
			08/08/23	*$ 249.25*	**TS**				
			09/08/23	$ 3,075.00					
CSAH 7 & 143rd Ave.	05/03/22	$ 800.00	06/15/22	$ 467.50	$ 100.00	$ 567.50	$ 232.50		$ 232.50
22-10									
Andover/Anoka									
Rivenwick 4th Addition	06/11/22	$ 800.00	07/18/22	$ 552.50	$ 100.00	$ 1,247.50	$ -		$ -
22-11	10/02/23	$ 447.50	07/18/22	$ 425.00					
Ramsey			08/12/22	$ 85.00					
			09/09/22	$ 85.00					
Pact Charter School - Grading	07/31/22	$ 800.00	08/12/22	$ 255.00	$ 100.00	$ 1,528.00	$ 728.00		$ 728.00
22-12	07/10/23	$ 728.00	09/09/22	$ 977.50					
Ramsey	07/21/23	$ 728.00	10/07/22	$ 195.50					
Summergate Development	09/02/22	$ 1,575.00	09/09/22	$ 255.00	$ 75.00	$ 910.75	$ 664.25		$ 664.25
22-13			10/07/22	$ 393.75					
Ramsey			11/04/22	$ 187.00					
Trott Brook Crossing	09/02/22	$ 800.00	09/09/22	$ 1,880.00	$ 100.00	$ 2,337.00	$ -		$ -
22-14	09/01/23	$ 1,537.00	10/07/22	$ 357.00					
Ramsey									
Rum River Bank Stabilization	10/03/22	$ 1,075.00	10/07/22	$ 529.75	$ 75.00	$ 766.25	$ 308.75		$ 308.75
22-15			11/04/22	$ 161.50					
Anoka									
Lil Explorers Daycare	10/03/22	$ 800.00	10/07/22	$ 255.00	$ 100.00	$ 355.00	$ 445.00		$ 445.00
22-16									
Ramsey									
Kelsey Round Lake Park	10/03/22	$ 1,075.00	10/07/22	$ 206.75	$ 75.00	$ 562.25	$ 512.75		$ 512.75
22-17			11/04/22	$ 170.00					
Andover			12/02/22	$ 110.50					

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION
SUMMARY OF PERMIT FEE APPLICATIONS
YEAR ENDING DECEMBER 31, 2024

	Deposits		Expenditures				Excess Deposits	Returned	Balance as of
		Permit Fee	Barr Engineering		Administrative	Total	Over Expenditures	to Applicant	February 4, 2024
Dalske Woodlands Boardwalk **22-18** **Andover**		$ 1,075.00	10/07/22	$ 206.75	$ 75.00	$ 536.75	$ 538.25	$ 538.25	$ -
			11/04/22	$ 136.00					
			12/02/22	$ 119.00					Closed in January 2024
161st Ave. Reconstruct **22-19** **Andover**	10/03/22	$ 1,075.00	10/07/22	$ 189.75	$ 75.00	$ 528.25	*$ 660.50*		$ 660.50
	03/06/23	$ 113.75	11/04/22	$ 119.00					
			12/02/22	$ 144.50					
Tulip Street site **22-20** **Andover**	10/03/22	$ -	11/04/22	*$ 535.75*	$ 75.00	$ 1,188.75	$ -		$ -
	07/21/23	$ 1,188.75	12/02/22	$ 170.00					
			12/31/22	$ 144.50					
			01/27/23	$ 263.50					
COR Wetland Review & Mitigation **22-21** **Ramsey**	11/03/22	$ 1,075.00	11/04/22	$ 255.00	$ 100.00	$ 2,275.50	$ -		$ -
	03/06/23	$ 1,175.50	12/02/22	$ 340.00					
	06/12/23	$ 25.00	12/31/22	$ 790.50					
			01/27/23	$ 765.00					
			02/24/23	$ 25.00					
Graco Anoka Plant Expansion **22-22A** **Anoka**	03/13/23	$ 850.00	03/24/23	$ 694.50	$ 150.00	$ 1,521.50	$ -		$ -
	08/08/23	$ 671.50	04/21/23	$ 677.00					
Anoka Retail Project (Bunker & 7th) **22-23** **Anoka**	12/03/22	$ 800.00	11/04/22	$ 42.50	$ 100.00	$ 2,004.00	$ -		$ -
	03/13/23	$ 124.00	12/02/22	$ 527.00					
	10/02/23	$ 1,080.00	12/31/22	$ 212.50					
			01/27/23	$ 42.00					
			04/21/23	$ 1,080.00					
Blue Line Collision **23-01** **Ramsey** **6710 Hwy 10 NW**	03/06/23	$ 850.00	02/24/23	$ 15.00	$ 150.00	$ 1,079.00	$ -		$ -
	09/01/23	$ 229.00	03/24/23	$ 914.00					
Ramsey Water Treatment Plant **23-02** **14199 Jasper St.** **Ramsey**	04/03/23	$ 850.00	03/24/23	$ 437.50	$ 150.00	$ 1,999.00	$ -		$ -
	08/08/23	$ 1,149.00	04/21/23	$ 934.00					
			05/19/23	$ 412.50					
			06/16/23	$ 65.00					
161st Avenue Reconstruct **23-04** **Armstrong to Variolite** **Ramsey**	04/03/23	$ 850.00	03/24/23	$ 494.00	$ 150.00	$ 1,049.00	$ -		$ -
	08/08/23	$ 199.00	04/21/23	$ 405.00					
Franklin Elementary remodel **23-05** **Anoka**	08/08/23	$ 1,597.50	03/24/23	$ 515.50	$ 150.00	$ 1,597.50	$ 850.00		$ 850.00
	09/01/23	$ 850.00	04/21/23	$ 932.00					

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION
SUMMARY OF PERMIT FEE APPLICATIONS
YEAR ENDING DECEMBER 31, 2024

	Deposits		Expenditures				Excess Deposits	Returned	Balance as of
		Permit Fee	Barr Engineering		Administrative	Total	Over Expenditures	to Applicant	February 4, 2024
Hwy 10 Ramsey Improvement	05/09/23	$ 850.00	05/19/23	$ 690.00	$ 150.00	$ 905.00	$ -		$ -
23-06	08/08/23	$ 55.00	06/16/23	$ 65.00					
Ferret St. & 147th									
Ramsey									
Soderholm & Associates	06/02/23	$ 850.00	05/19/23	$ 45.00	$ 150.00	$ 1,547.50	$ -		$ -
23-08	08/08/23	$ 111.00	06/16/23	$ 766.00					
7150 143rd Ave. NW	10/11/23	$ 540.50	07/14/23	$ 90.00					
Ramsey	11/20/23	$ 46.00	08/11/23	$ 450.50					
			09/08/23	$ 46.00					
Home 2 Suites by Hilton	06/12/23	$ 850.00	06/16/23	$ 342.00	$ 150.00	$ 1,865.50	$ -		$ -
23-09	10/02/23	$ 856.50	07/14/23	$ 950.00					
Sunwood Dr. & Zeolite	11/20/23	$ 159.00	***07/25/23***	***$ 19.25***	***TS***				
Ramsey			***07/26/23***	***$ 19.25***	***TS***				
			08/11/23	$ 226.00					
			08/01/23	***$ 159.00***	***TS***				
Bunker Lake Industrial Park bldg 5	06/28/23	$ 850.00	06/16/23	$ 214.00	$ 150.00	$ 1,996.00	$ -		$ -
23-10	10/11/23	$ 1,146.00	07/14/23	$ 1,587.00					
Bunker & Puma St			08/11/23	$ 45.00					
Ramsey									
167th Ave. Reconstruction	06/12/23	$ 2,150.00	07/14/23	$ 563.00	$ 150.00	$ 3,070.50	$ (34.50)		**$ (34.50)**
23-11	10/06/23	$ 886.00	08/11/23	$ 2,323.00					
Wetland Delineation			09/08/23	$ 34.50					
TH47 & Nowthen Blvd									
Ramsey									
COR	08/08/23	$ 1,150.00	08/11/23	$ 1,462.50	$ 150.00	$ 1,612.50	$ -		$ -
23-12	10/06/23	$ 462.50							
Wetlands No loss WCA excemption									
Zeolite Street north of Sunwood Dr.									
Ramsey									
COR Regional pond	08/08/23	$ 850.00	07/14/23	$ 552.50	$ 150.00	$ 4,201.50	$ (195.00)		**$ (195.00)**
23-13	10/06/23	$ 3,156.50	08/11/23	$ 3,304.00					
Grading and erosion control			09/08/23	$ 75.00					
Ramsey			11/03/23	$ 120.00					
Aldi Store	07/21/23	$ 800.00	08/11/23	$ 629.00	$ 150.00	$ 854.00	$ -		$ -
23-14	11/17/23	$ 54.00	09/08/23	$ 75.00					
7992 Sunwood Dr.									
Ramsey									
Waltek	08/08/23	$ 850.00	08/11/23	$ 809.00	$ 150.00	$ 1,772.50	$ -		$ -
23-15	10/02/23	$ 109.00	09/08/23	$ 483.50					
14310 Sunfish Blvd	11/20/23	$ 483.50	10/06/23	$ 330.00					
Ramsey	01/22/24	$ 330.00							

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION
SUMMARY OF PERMIT FEE APPLICATIONS
YEAR ENDING DECEMBER 31, 2024

	Deposits		Expenditures			Excess Deposits	Returned	Balance as of
		Permit Fee	Barr Engineering	Administrative	Total	Over Expenditures	to Applicant	February 4, 2024
167th Ave. Erosion/Sediment **23-16** **CSAH 5 to Hwy 47** **Ramsey**	09/01/23 10/06/23	$ 850.00 $ 65.00	08/11/23 $ 765.00	$ 150.00	$ 915.00	$ -		$ -
2024 Construction Project **23-17** **Various Streets** **Andover**	10/02/23 11/23/23 01/22/24	$ 1,575.00 $ 297.00 $ 520.50	09/08/23 $ 12.50 10/06/23 $ 1,709.50 11/03/23 $ 520.50	$ 150.00	$ 2,392.50	$ -		$ -
Jam Hops **23-18** **14165 Ramsey Blvd** **Ramsey**	10/06/23	$ 850.00	10/06/23 $ 60.00 11/03/23 $ 890.00 12/01/23 $ 60.00	$ 150.00	$ 1,160.00	$ (310.00)		**$ (310.00)**
CSAH 9/Round Lake **23-19** **149th ln to 157th Ave** **Andover**	10/06/23	$ 850.00	10/06/23 $ 15.00 11/03/23 $ 1,961.50 12/01/23 $ 999.00 12/31/23 $ 2,197.50	$ 150.00	$ 5,323.00	$ (4,473.00)		**$ (4,473.00)**
CR 59 **23-20** **Anoka County turn lanes** **Andover**	11/09/23	$ 1,650.00	11/03/23 $ 517.50 12/01/23 $ 2,972.00 12/31/23 $ 437.00	$ 150.00	$ 4,076.50	$ (2,426.50)		**$ (2,426.50)**
West Rum River Trail **23-21** **Anoka**	01/22/24	$ 850.00		$ 150.00	$ 150.00	$ 700.00		$ 700.00
Water Treatment Plant **23-22** **Wetland No loss utility exemption** **Water Treatment Plant** **Ramsey**	01/02/24	$ 1,150.00		$ 150.00	$ 150.00	$ 1,000.00		$ 1,000.00
Water Treatment Plant **23-23** **Construction of Watermain Impr.** **Ramsey**	01/22/24	$ 850.00		$ 150.00	$ 150.00	$ 700.00		$ 700.00

LOWER RUM RIVER WATER MANAGEMENT ORGANIZATION
SUMMARY OF PERMIT FEE APPLICATIONS
YEAR ENDING DECEMBER 31, 2024

	Deposits		Expenditures				Excess Deposits	Returned	Balance as of
		Permit Fee	Barr Engineering		Administrative	Total	Over Expenditures	to Applicant	February 4, 2024
Travelers	02/18/11	$ 59,000.00	04/21/11	$ 6,300.00		$ 38,496.44	$ 20,503.56	$ -	$ 20,503.56
Bond Payment			08/18/11	$ 13,197.00					
Ramsey			08/18/11	$ 18,170.00					
Town Center			06/20/19	$ 25.50					
			11/29/21	$ 76.50					
			12/13/21	$ 472.44					
			3/7/2022	$ 59.50					
			9/9/2022	$ 102.00					
			11/4/2022	$ 93.50					
Totals		$ 247,156.49		$ 200,277.44	$ 11,680.25	$ 211,957.69	$ 35,198.80	$ 6,491.85	$ 28,706.95

LOWER RUM RIVER WATERSHED MANAGEMENT ORGANIZATION

BILLS

February 15, 2024

ck#				
2657	Anoka Conservation District	4th quarter 2023 Admin/Coor. Services	$	1,626.50
2658	Barr Engineering	December 2023 #354	$	3,624.50
2659	TimeSaver Off Site Sec.	January 2024 Secretarial Services	$	943.32
2660	Dennis Kuiken	Reimb. Permit #17-29, Norlex Turf	$	816.00
2661	Duane Kuiken	Reimb. Permit #18-17, 1565 161st	$	92.92
2662	JD Andover Holdings	Reimb. Permit #19-20, Petersen Farms	$	4,137.86
2663	Anoka County	Reimb. Permit #21-24, CSAH 58	$	906.82
2664	City of Anodover	Reimb. Permit #22-18, Dalske Woodlands	$	538.25
		TOTAL	$	12,686.17

1318 McKay Dr. NE, Suite 300
Ham Lake, MN 55304
763-434-2030
www.AnokaSWCD.org

Invoice

Date	Invoice #
12/31/2023	2023318

Bill To

LRRWMO
Lori Yager
2015 First Ave
Anoka, MN 55303
kayyag@gmail.com

Terms
30 Days

Description	Qty	Rate	Amount
LRRWMO Administrator/Water Resources Coordinator 4 Qtr 2023		0.00	0.00
Becky Wozney	17.5	78.00	1,365.00
Jamie Schurbon	2.75	88.00	242.00
Kathy Berkness	0.25	78.00	19.50

Total	$1,626.50
Payments/Credits	$0.00
Balance Due	$1,626.50

INVOICE

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

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

Ms. Lori Yager
Lower Rum River WMO
2015 1st Avenue
Anoka, MN 55303

January 24, 2024
Invoice No: 23020047.00 - 354

Total this Invoice	**$3,624.50**

Regarding: Activities for the LRRWMO

This invoice is for professional services, which include the following:

002: On-going monthly administrative activities.

003: Respond to questions on wetland permitting considerations for Type 2 wetlands within the WMO. Complete WCA end-of-year annual reporting.

2319: Continued coordination with CCWD on project requirements and permitting. Coordination with City of Andover on downstream receiving pond, wetlands, and landlocked basin requirements. Communications with project applicant, Anoka County Transportation Department. Attend December board meeting to speak to permit. Review of permit response to comments.

2320: Review of permit submittal and complete project Notice of Decision. Prepare and forward permit memorandum dated December 7, 2023 to the LRRWMO with a recommendation of approval.

Professional Services from December 2, 2023 to December 31, 2023

Job: RJB Lower Rum River WMO

Task: 002 Administrative

Labor Charges

	Hours	**Rate**	**Amount**	
Engineer / Scientist / Specialist IV				
Johnson, Stephanie	2.70	150.00	405.00	
Support Personnel II				
Nypan, Nyssa	.50	100.00	50.00	
	3.20		455.00	
Subtotal Labor				**455.00**
			Task Subtotal	**$455.00**

Task: 003 Wetland Admin

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 II				
Danzl, Matthew	4.00	115.00	460.00	
Wold, Karen	.60	125.00	75.00	
	4.60		535.00	
Subtotal Labor				**535.00**
			Task Subtotal	**$535.00**

Task: 2319 CSAH 9_Round Lake Blvd_149 to 157th, Andover

Labor Charges

	Hours	Rate	Amount	
Vice President				
Obermeyer, Robert	1.80	150.00	270.00	
Engineer / Scientist / Specialist IV				
Johnson, Stephanie	8.30	150.00	1,245.00	
Engineer / Scientist / Specialist II				
Lau, Heather	5.50	115.00	632.50	
Wold, Karen	.40	125.00	50.00	
	16.00		2,197.50	
Subtotal Labor				**2,197.50**
			Task Subtotal	**$2,197.50**

Task: 2320 CR 59 Turn Lanes, Andover

Labor Charges

	Hours	Rate	Amount	
Engineer / Scientist / Specialist II				
Danzl, Matthew	3.80	115.00	437.00	
	3.80		437.00	
Subtotal Labor				**437.00**
			Task Subtotal	**$437.00**
			Job Subtotal	**$3,624.50**
			Total this Invoice	**$3,624.50**

Thank you in advance for your prompt processing of this invoice. If you have any questions please contact your Barr project manager, Stephanie Johnson at 952-842-3766 or email at Stephanie.Johnson@barr.com.

TimeSaver Off Site Secretarial, Inc.

2/2/2024

TERMS - NET UPON RECEIPT

INVOICE - M28915

PLEASE REMIT TO: ***TimeSaver Off Site Secretarial, Inc.***
21021 Karoline Court N.
Forest Lake, MN 55025

Lower Rum River Watershed Management Organization
Anoka City Hall
2015 First Avenue N.
Anoka, MN 55303

Date	Description	Amount
Jan. 4	Draft + e-mail Jan. agenda to leadership, organize packet files – 1 hr.	$ 34.00
	Download/print #2023-19 + 20 Barr letters – min.	20.00
	Update agenda per Yager to remove permit fee – min.	20.00
	Download/print #2023-22 – min.	20.00
Jan. 5	Add WAC resolution per Wozney – min.	20.00
	E-mails to/from Yager/Andover re: multiple permit refunds – min.	20.00
	E-mail Barr, Remove #2023-21 /update agenda to leadership – min.	20.00
	E-mail Yager, update agenda/move permit refunds to new business – min.	20.00
	Call from Cameron re: refunds/download/print 10 Andover refund letters – min.	20.00
Jan. 9	E-mail Yager re: hold packet for Barr late invoice submittal – min.	20.00
	Download/print Andover letter Permit #2019-20 refund – min.	20.00
Jan. 10	Download/print Andover 2023 4Q Report – min.	20.00
Jan. 11	E-mail to Ramsey re: 2023 4Q Report for packet – min.	20.00
	Download/print financials for packet – min.	20.00
	E-mail Lori Andover refund letters – min.	20.00
Jan. 12	Compile packet files/e-mail Wozney for packet materials – min.	20.00
	Download/print Barr memo #2023-10, e-mail Barr for #2023-22 memo, e-mails To/from leadership + Barr re: #2023-22 payment – 1 hr.	34.00
	E-mail Anoka for 2023 4Q Report – min.	20.00
	Agenda to ACD to post	No./Chg
	Download/print Anoka 2023 4Q Report, convert files to Adobe – 3 hrs.	102.00
	Bookmark + e-mail electronic packet to all + ACD to post – min.	20.00
Jan. 18	Meeting Minutes – min.	167.00
Jan. 19	E-mail minutes to Bd. to edit/e-mail Dec. minutes to ACD to post – min.	20.00
	E-mails to/from leadership + Westby re: Ramsey watermain permit – min.	20.00
Jan. 23	Download/print Barr letter #2023-10/e-mail from Wozney re: permit process – min.	20.00
Jan. 29	E-mail Barr re: #2023-23 – min.	20.00
Jan 30	Draft Feb. agenda/organize files/download/print #2023-23 – 1 hr.	34.00
	E-mail draft agenda to Wozney/update per Wozney – min.	20.00
Jan. 31	Per Barr update agenda to add #2023-21 – min.	20.00
	E-mail June minutes to ACD to post	No. Chg
	E-mail re: meeting on file storage, postage costs – min.	20.00
	Processing electronic mail to/from Board – 1 hr.	34.00
	Copies	58.32
	TOTAL	$ 943.32

Lower Rum River WMO

Permit # 23-21

GRADING, STORMWATER MANAGEMENT AND EROSION/ SEDIMENT CONTROL PERMIT APPLICATION

A $150.00 application fee and additional $700.00 escrow deposit must accompany this permit application.

Permits are to be processed at the same time as the site plan, preliminary plat or other city land use or building application submitted to the city in which the work or project is located.

The permit application and supporting documentation must be submitted to the LRRWMO by the THIRD THURSDAY OF THE MONTH TO BE ON THE FOLLOWING REGULARLY SCHEDULED MONTHLY LRRWMO MEETING AGENDA. A PERMIT NUMBER WILL NOT BE ASSIGNED UNTIL CITY AUTHORIZATION IS RECEIVED.

Project Name: West Rum River Trail - Phase I

Address/Location: Along Ferry St/TH 169 corridor on the westbank of the Rum River

Project Description/Purpose: Construction of a new trailway

Ben Nelson	Derek Benoy Bolton & Menk, Inc.
Name of Applicant (Site Owner or Property Owner)	**Applicant's Contact Organization Name**
2015 First Avenue	4960 Miller Trunk HWY; Suite 550
Address	**Address**
Anoka, MN 55303	Duluth, MN, 55811
City, State, Zip	**City, State, Zip**
(763) 576-2980 (763) 576-2988	(763) 228-6538
Phone Fax	**Phone Fax**
bnelson@ci.anoka.mn.us	derek.benoy@bolton-menk.com
Email	**Email**

Submittal Requirements

Completed Grading, Stormwater Management and Erosion/ Sediment Control permit applications are to be submitted as per LRRWMO attachments G1 (Permit Requirements) and G2 (Office Procedure) included with this application. Note that projects involving potential wetland impacts and/or involving a Wetland Replacement Plan require a separate permit application and are subject to additional requirements.

PROJECT SUBMITTALS (check all that apply):

- [X] **GRADING PLAN:** Including existing and proposed contours and boundaries of all wetlands and surface waters.
- [X] **STORM SEWER/ DRAINAGE PLAN:** Including all permanent drainage features and all permanent water quality features.
- [X] **STORM DRAINAGE CALCULATIONS:** Design computations as required by the LRRWMO.
- [X] **EROSION CONTROL PLAN:** Including all temporary and permanent measures proposed to retain all sediment on site.
- [ ] **OTHER**

Lower Rum River WMO

START OF PROJECT: March 2024

EST. COMPLETION DATE: October 2024

APPROVAL DATE: _____

By signing this Permit Application, the undersigned consents and agrees on behalf of the Applicant that:

1. The permit application fee is non-refundable. Escrow deposits will be held by the LRRWMO until the project has been completed and all conditions of issuance of the permit are satisfied. The Applicant is responsible for all expenses incurred by the LRRWMO in the processing, administration and enforcement of the permit application and permit. The escrow deposit will be used to reimburse the LRRWMO for all expenses incurred by the LRRWMO in processing, administering and enforcing the permit application and permit, including engineering, legal and other consultant costs. If such expenses exceed the escrow deposit, the LRRWMO will bill the Applicant or Permittee for such excess amount and payment will be due within twenty (20) days of mailing the invoice. Timely payment of such invoices is a condition of all permits and work may be stopped on the project for failure to make payments when due.
2. The undersigned, its agents, principal, assigns and/or representatives (hereinafter "Permittee") shall abide by all the standard conditions and special terms and conditions of the LRRWMO.
3. Any work that violates the terms of the permit may result in the LRRWMO or the City in which the work is being done immediately causing the work on the project relating to the permit to cease and desist. All work on the project shall cease until the permit conditions are met and approved by the LRRWMO and/or the City in which the work is being done.
4. The Permittee agrees to be bound by the terms of the LRRWMO permit requirements, final permit, standard conditions, and special conditions required by the LRRWMO for approval of the permit. The undersigned has the authority to bind the permit holder, the owner of the property and/or any entity performing work on the property pursuant to the terms of LRRWMO permit, and shall be responsible for complying with terms of the LRRWMO permit.

"I certify that I have thoroughly read and understand the above information."

Signature of property owner or designated Agent (no agent without a letter of authority)	12-22-2023 Date	Signature of applicant if different from property owner	12-29-2023 Date
Ben Nelson Print Signer's name		Derek Benoy Print Signer's name	

Application Acknowledged by City: _____ Name of City Official; Anoka City; 12-22-2023 Date

SIGNATURE OF LRRWMO CHAIRMAN: **

***NOTE: Subject to conditions recommended by Barr Engineering (see attached)**

PERMIT IS NOT VALID IF PROJECT HAS NOT STARTED WITHIN ONE YEAR FROM DATE OF APPROVAL

Lower Rum River WMO

Memorandum

To: Lower Rum River Watershed Management Organization
From: Stephanie Johnson, Barr Engineering Co.
Date: February 9, 2023
Subject: Permit #2023-21: West Rum River Trail Phase 1: Anoka

The LRRWMO has received plans, a stormwater report and a LRRWMO permit application for Phase 1 of construction of a new riverwalk trail between Ferry Street and the Rum River in the City of Anoka. The project involves the construction and reconstruction of approximately 0.40-acres of impervious trails.

Comments have been submitted to the City of Anoka and project agent, Derek Benoy, Bolton and Menk. A revised permit submittal was received on January 25th and additional comments were provided. At the time of this memo, we are coordinating with the City of Anoka and project agent on their response to comments.

We are requesting this item be continued by the LRRWMO, and the review period extended for a 60-day time period as required by Mn Statutes 15.99, until a revised submittal is provided for review.

The City of Anoka (applicant) has indicated there may be a need to obtain permit approvals before the LRRWMO's March 21st meeting in order to show compliance for a Mn DNR grant submittal. If permit approvals are needed before March 21st, the City will request a special meeting.

Lower
Rum River
WMO

Permit # 2023-22

APPLICATION FOR MINNESOTA WETLAND CONSERVATION ACT (WCA) DECISIONS AND PROCEDURE REQUIREMENTS

A $150.00 LRRWMO initial application fee and the appropriate escrow deposits (determined in accordance with Attachment W3) must accompany this permit application for any Wetland Conservation Act (WCA) decisions. These are separate and in addition to permit and escrow fees for Grading, Stormwater Management, and Erosion/Sediment Control permit application, if applicable.

Permits are to be processed at the same time as the site plan, preliminary plat or other city land use or building application submitted to the city in which the work or project is located.

Wetland permit processing takes longer than other permit processing. The permit application and supporting documentation should be submitted to the LRRWMO AT LEAST 60 DAYS PRIOR TO THE REGULARLY SCHEDULED MONTHLY LRRWMO MEETING AT WHICH A DECISION IS REQUESTED. A PERMIT NUMBER WILL NOT BE ASSIGNED UNTIL CITY AUTHORIZATION IS RECEIVED.

Project Name: City of Ramsey Watermain

Address/Location: City of Ramsey

Project Description/Purpose: Water Treatment Plant Trunk Watermain Improvements

City of Ramsey, Bruce Westby	Luke Menden, SEH
Name of Applicant (Site Owner or Property Owner)	Applicant's Contact Organization Name
7550 Sunwood Drive	3535 Vadnais Center Dr
Address	Address
Ramsey, MN 55303	St. Paul, MN 55110
City, State, Zip	City, State, Zip
763-433-9825	612-618-4453
Phone Fax	Phone Fax
bwestby@cityoframsey.com	lmenden@sehinc.com
Email	Email

Submittal Requirements

Complete applications are to be submitted as per LRRWMO attachments W1 (Permit Requirements), W2 (Office Procedure), and W3 (Fees, Deposit, and Sureties for Wetland Conservation Act) included with this application. Projects may also require a LRRWMO Grading, Stormwater Management, and Erosion/Sediment Control Permit (separate application and fee/escrow amounts)

PROJECT SUBMITTALS (check all that apply):

- ☐ WETLAND BOUNDARY DELINEATION AND TYPE CONCURRENCE
- ☒ REQUEST FOR NO LOSS OR EXEMPTION UNDER THE WETLAND CONSERVATION ACT (WCA)
- ☐ WETLAND REPLACEMENT PLAN AND/OR SEQUENCING
- ☐ WETLAND BANKING PLAN
- ☐ OTHER

Lower
Rum River
WMO

START OF PROJECT: _____ EST. COMPLETION DATE: _____ APPROVAL DATE: _____

By signing this Permit Application, the undersigned consents and agrees on behalf of the Applicant that:

1. The permit application fee is non-refundable. Escrow deposits will be held by the LRRWMO until the project has been completed and all conditions of issuance of the permit are satisfied. The Applicant is responsible for all expenses incurred by the LRRWMO in the processing, administration and enforcement of the permit application and permit. The escrow deposit will be used to reimburse the LRRWMO for all expenses incurred by the LRRWMO in processing, administering and enforcing the permit application and permit, including engineering, legal and other consultant costs. If such expenses exceed the escrow deposit, the LRRWMO will bill the Applicant or Permittee for such excess amount and payment will be due within twenty (20) days of mailing the invoice. Timely payment of such invoices is a condition of all permits and work may be stopped on the project for failure to make payments when due.
2. The undersigned, its agents, principal, assigns and/or representatives (hereinafter "Permittee") shall abide by all the standard conditions and special terms and conditions of the LRRWMO.
3. Any work that violates the terms of the permit may result in the LRRWMO or the City in which the work is being done immediately causing the work on the project relating to the permit to cease and desist. All work on the project shall cease until the permit conditions are met and approved by the LRRWMO and/or the City in which the work is being done.
4. The Permittee agrees to be bound by the terms of the LRRWMO permit requirements, final permit, standard conditions, and special conditions required by the LRRWMO for approval of the permit. The undersigned has the authority to bind the permit holder, the owner of the property and/or any entity performing work on the property pursuant to the terms of LRRWMO permit, and shall be responsible for complying with terms of the LRRWMO permit.

"I certify that I have thoroughly read and understand the above information."

Signature of property owner or designated Agent (no agent without a letter of authority)	Date	Signature of applicant if different from property owner	Date
[signature]	12-15-23		

Brian Hagen
Print Signer's name

Print Signer's name

Application Acknowledged by City: LEONARD LINTON (Name of City Official) RAMSEY (City) 12/18/23 (Date)

SIGNATURE OF LRRWMO CHAIRMAN: **

NOTE: Subject to conditions as designated in the WCA Notice of Decision as recommended by the Technical Evaluation Panel and Barr Engineering (see attached)

PERMIT IS NOT VALID IF PROJECT HAS NOT STARTED WITHIN ONE YEAR FROM DATE OF APPROVAL

resourceful. naturally.
engineering and environmental consultants

BARR

Memorandum

To: Lower Rum River Watershed Management Organization (LRRWMO)
From: Matt Danzl, Barr Engineering Co.
Subject: Trunk Watermain Improvements ~ Ramsey
Date: February 9, 2024
Barr Project: 23020047.00 RJB 2322
LRRWMO Permit: 2023-22

c: Stephanie Johnson, Barr Engineering Co.
Carla Wirth, TimeSaver, LRRWMO Recording Secretary

On November 30, 2023, Barr received an application for the Trunk Watermain Improvements project and a request for Minnesota Wetland Conservation Act (WCA) approval. After a brief review, Barr notified the applicant's agent to provide the watershed application and fees for a complete application. The application was resubmitted the week of December 26th. On January 16, 2024, Barr notified the applicant the application was missing the wetland delineation report. On January 19, 2024, Barr received a complete application. Barr issued a Notice of Application to the required parties on January 19, 2024, with a comment period ending on February 9, 2024.

Barr coordinated with Technical Evaluation Panel (TEP) members to review the application. Barr received comments from the DNR on February 2nd, to waive DNR jurisdiction to LRRWMO. Additional comments were received on February 2nd to require certain conditions to protect rare species. The TEP concurs with the application.

We recommend that the LRRWMO approve the no-loss and wetland boundaries and types with conditions as documented in the attached draft WCA Notice of Decision.

BOARD OF WATER AND SOIL RESOURCES

Minnesota Wetland Conservation Act
Notice of Decision

Local Government Unit (LGU): Lower Rum River Watershed Management Organization (LRRWMO) **County:** Anoka
Applicant Name: City of Ramsey – Bruce Westby **Applicant Representative:** SEH, Inc. – Luke Menden
Project Name: Trunk Watermain Improvements **LGU Project No. (if any):** 2023-22
Date Application Received by LGU: 12/26/2023
Date of LGU Decision: 2/15/2024
Date this Notice was Sent:

Minnesota Wetland Conservation Act (WCA) Decision Type - check all that apply

☒Wetland Boundary/Type ☐Sequencing ☐Replacement Plan ☐Bank Plan (not credit purchase)
☒No-Loss (8420.0415) ☐Exemption (8420.0420)
Part: ☐ A ☐ B ☐ C ☐ D ☐ E ☐ F ☐ G ☒ H Subpart: ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9

Replacement Plan Impacts (replacement plan decisions only)

Total WCA Wetland Impact Area: not applicable
Wetland Replacement Type: ☐ Project Specific Credits: ☐ Bank Credits:
Bank Account Number(s):

Technical Evaluation Panel (TEP) Findings and Recommendations (attach if any)

☐ Approve ☒ Approve w/Conditions ☐ Deny
See TEP involvement and communication described in LGU Findings below.

LGU Decision

☒ Approved with Conditions (specify below)[1] ☐ Approved[1] ☐ Denied
List Conditions:

Pursuant to 8420.0415 Subp H. the city shall set aside $7000 of financial assurance to cover the estimated cost to restore the wetlands to pre-project conditions, the surety can be removed upon a determination by the LRRWMO that the wetlands have been restored to pre-project conditions.

1. STANDARD NO-LOSS AND EXEMPTION CONDITIONS.

A person conducting an activity in a wetland under no-loss in part 8420.0415 or an exemption in part 8420.0420 must ensure that:
A. appropriate erosion control measures are taken to prevent sedimentation of the wetland or of any receiving waters;
B. the activity does not block fish activity in a watercourse, except when done purposely to prevent movement of undesirable fish species in accordance with a recommendation from the commissioner; and
C. the activity is conducted in compliance with all other applicable federal, state, and local requirements, including best management practices according to the documents referenced in part 8420.0112, items L, M, and N, and water resource protection requirements established under Minnesota Statutes, chapter 103H.

Additional TEP Conditions:

- Fencing off the trenches to exclude turtles from March 31st through October 15th ;
- Fencing off any spoil piles that might be attractive to nesting turtles from March 31st through June 30th;
- Checking trenches daily for turtles;
- Checking trenches for turtles prior to refilling them;
- Distribute the Blanding's turtle flyer (attached) to all contractors working in the area and instruct them not to disturb turtles unless to move them directly out of harm's way;
- Use only wildlife-friendly erosion control materials (see attached)
- It is recommended to submit the project to Minnesota Conservation Explorer for further direction.

Decision-Maker for this Application: ☐ Staff ☒ Governing Board/Council ☐ Other:

Decision is valid for: ☒ 5 years (default) ☐ Other (specify):

[1] *Wetland Replacement Plan approval is not valid until Minnesota Board of Water and Soil Resources (BWSR) confirms the withdrawal of any required wetland bank credits. For project-specific replacement a financial assurance per MN Rule 8420.0522, Subp. 9 and evidence that all required forms have been recorded on the title of the property on which the replacement wetland is located must be provided to the LGU for the approval to be valid.*

LGU Findings – Attach document(s) and/or insert narrative providing the basis for the LGU decision[1].

☒ Attachment(s) (specify): **City of Ramsey Watermain Figure 1: Site Location; Delineation Results Figure 7 (1-3) dated 6/17/2021); Wetland Impacts Figure 4 (1-2); Plan and Profile Sheet 39.**

☒ Summary:

On behalf of the City of Ramsey, SEH, Inc. submitted a wetland delineation report and a joint application form requesting wetland boundary and type and no-loss concurrence associated with the Trunk Watermain Improvement Project. A WCA Notice of Application was submitted to TEP members on 1/19/2024 with a comment period ending on 2/9/2024.

Eight wetlands were delineated within the evaluation areas as documented within Figure 7 and are summarized in the tabled below.

Table 1 – Wetland and Aquatic Resource Characteristics

Wetland ID	Size (acres)[1]	Eggers & Reed Classification	Circular 39/ Cowardin Classification
1	0.1584	Fresh (Wet) Meadow Wet Ditch	Type 2 / PEM1B
2	0.0491	Fresh (Wet) Meadow	Type 2 / PEM1B
3	0.0 [2]	Seasonally Flooded Basin	Type 1 / PEMA
4	0.9934	Shallow Marsh	Type 3 / PEM1C
5	0.0 [2]	Shallow Open Water	Type 5 / PUBH
6	0.0 [2]	Shallow Open Water	Type 5 / PUBH
7	0.0103	Shallow Marsh	Type 3 / PEM1C
8	0.2979	Shallow Open Water	Type 5 / PUBH

[1] Size includes areas of wetland within the area of investigation only. Wetlands may extend beyond the limits of the area investigated and actual wetland size may be larger than that indicated.

[2] Wetlands 3, 5 and 6 are outside of the project area

Wetland 4 is classified as a DNR Public Water Wetland (02011700). On February 2, 2024, Area Hydrologist Wes Saunders-Pearce waived DNR jurisdiction to the WCA LGU. Since state-listed threatened species could be in the vicinity of the project, DNR Regional Ecologist Melissa Collins recommends certain conditions to protect the species.

The TEP agreed to accept the delineation outside of the growing season since all proposed impacts are temporary.

Proposed Temporary Impacts.

Table 2 – Summary of Wetland and Aquatic Resource Impacts

Aquatic Resource ID	Aquatic Resource Type	Type of Impact	Duration of Impact	Size of Impact	Plant Community Type (Eggers and Reed)	County, Major Watershed #, and Bank Service Area #
Wetland 1	wetland	excavate	Temp 5 days	5,657 sq ft	Fresh (Wet) Meadow Wet Ditch	Anoka County, Mississippi River – Twin Cities #20, BSA #7
Wetland 4	wetland	excavate	Temp 5 days	7,815 sq ft	Shallow Marsh	

The impacts will be restored to pre-project conditions within 6 months from the start of the activity and seeded with MNDOT seed mix 34-171 Wetland Rehabilitation Mix

The LGU approves the no-loss under 8420.0415 H. for the temporary impacts to Wetlands 1 and 4.

[1] *Findings must consider any TEP recommendations.*

Attached Project Documents

☒ site location map ☒ Project Plan(s)/Descriptions/Reports (specify): wetland delineation map

Appeals of LGU Decisions

If you wish to appeal this decision, you must provide a written request within 30 calendar days of the date you received the notice. All appeals must be submitted to the Board of Water and Soil Resources Executive Director along with a check payable to BWSR for $500 *unless* the LGU has adopted a local appeal process as identified below. The check must be sent by mail and the written request to appeal can be submitted by mail or e-mail. The appeal should include a copy of this notice, name and contact information of appellant(s) and their representatives (if applicable), a statement clarifying the intent to appeal and supporting information as to why the decision is in error. Send to:

Appeals & Regulatory Compliance Coordinator
Minnesota Board of Water & Soils Resources
520 Lafayette Road North
St. Paul, MN 55155
travis.germundson@state.mn.us

Does the LGU have a local appeal process applicable to this decision?

☐ Yes[1] ☒ No

[1]*If yes, all appeals must first be considered via the local appeals process.*

Local Appeals Submittal Requirements (LGU must describe how to appeal, submittal requirements, fees, etc. as applicable)

Notice Distribution (include name)

Required on all notices:

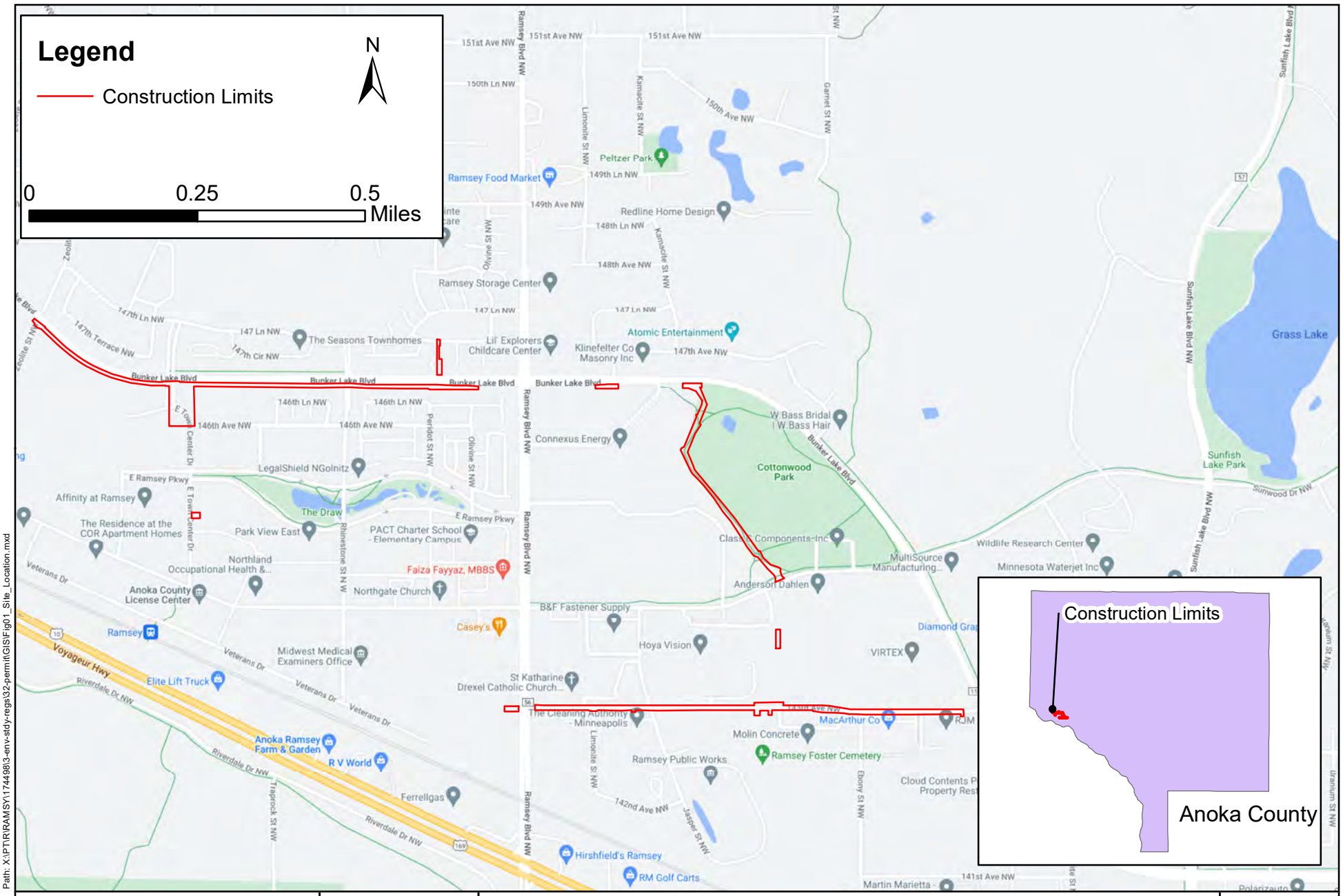
☒ SWCD TEP Member: Becky Wozney (Anoka Conservation District) ☒ Minnesota Board of Water and Soil Resources (BWSR) TEP Member: Ben Meyer
☒ LGU TEP Member: Matt Danzl (Barr Engineering for the LRRWMO)
☒ Minnesota Department of Natural Resources Representative: Melissa Collins
☒ Watershed District or Watershed Mgmt. Org.: Debra Musgrove (LRRWMO), Stephanie Johnson (Barr Engineering Co.) ☒ City Contact for LRRWMO permitting: Leonard Linton (City of Ramsey)
☒ Applicant (notice only): Bruce Westby, City of Ramsey ☒ Agent/Consultant (notice only): Luke Menden, SEH, Inc.

Optional or As Applicable:

☐ Corps of Engineers:
☐ BWSR Wetland Mitigation Coordinator (required for bank plan applications only):
☐ Members of the Public (notice only): ☐ Other:

Signature:	**Date:**

This notice and accompanying application materials may be sent electronically or by mail. The LGU may opt to send a summary of the application to members of the public upon request per 8420.0255, Subp. 3.



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SEH
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110
PHONE: (651) 490-2000
FAX: (651) 490-2150
WATTS: 800-325-2055
www.sehinc.com

Project: RAMSY 174498
Print Date: 11/20/2023

Map by: lmenden
Projection: UTM NAD 83 Zone 15N
Source: Google, SEH, ESRI

SITE LOCATION

City of Ramsey Watermain
Ramsey, Anoka County, Minnesota

Figure 1

Path: X:\PT\R\RAMSY\174498\3-env-stdy-regs\32-permit\GIS\Fig01_Site_Location.mxd

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2021 Aerial Photography

City of Ramsey Watermain
Ramsey, Anoka County, Minnesota

Figure 2

Path: X:\PT\R\RAMSY\174498\3-env-stdy-regs\32-permit\GIS\Fig01_Site_Location.mxd

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Wetland Locations

City of Ramsey Watermain
Ramsey, Anoka County, Minnesota

Figure 3

Path: X:\PTI\R\RAMSY\174498\3-env-stdy-regs\32-permit\GIS\Fig01_Site_Location.mxd

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Map by: lmenden
Projection: UTM NAD 83 Zone 15N
Source: Google, SEH, ESRI

Wetland Impacts

City of Ramsey Watermain
Ramsey, Anoka County, Minnesota

Figure 4-1

Path: X:\PT\R\RAMSY\174498\3-env-stdy-regs\32-permit\GIS\Fig01_Site_Location.mxd

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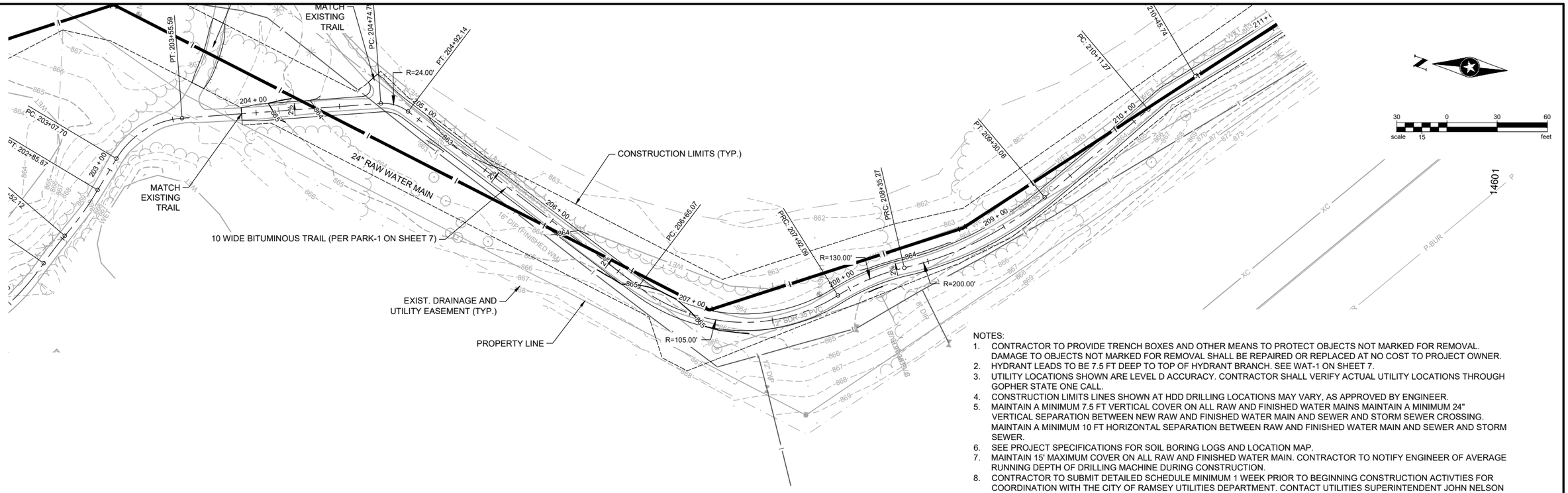
Map by: lmenden
Projection: UTM NAD 83 Zone 15N
Source: Google, SEH, ESRI

Wetland Impacts

City of Ramsey Watermain
Ramsey, Anoka County, Minnesota

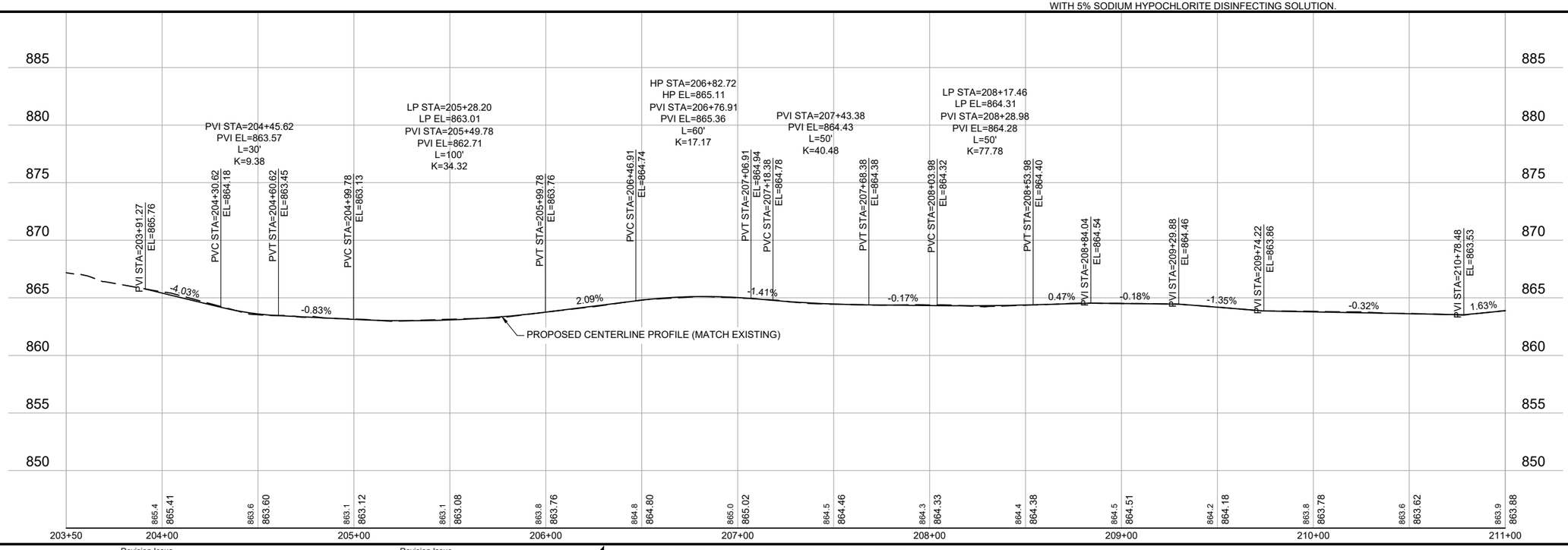
Figure 4-2



COTTONWOOD PARK TRAIL

NOTES:

1. CONTRACTOR TO PROVIDE TRENCH BOXES AND OTHER MEANS TO PROTECT OBJECTS NOT MARKED FOR REMOVAL. DAMAGE TO OBJECTS NOT MARKED FOR REMOVAL SHALL BE REPAIRED OR REPLACED AT NO COST TO PROJECT OWNER.
2. HYDRANT LEADS TO BE 7.5 FT DEEP TO TOP OF HYDRANT BRANCH. SEE WAT-1 ON SHEET 7.
3. UTILITY LOCATIONS SHOWN ARE LEVEL D ACCURACY. CONTRACTOR SHALL VERIFY ACTUAL UTILITY LOCATIONS THROUGH GOPHER STATE ONE CALL.
4. CONSTRUCTION LIMITS LINES SHOWN AT HDD DRILLING LOCATIONS MAY VARY, AS APPROVED BY ENGINEER.
5. MAINTAIN A MINIMUM 7.5 FT VERTICAL COVER ON ALL RAW AND FINISHED WATER MAINS MAINTAIN A MINIMUM 24" VERTICAL SEPARATION BETWEEN NEW RAW AND FINISHED WATER MAIN AND SEWER AND STORM SEWER CROSSING. MAINTAIN A MINIMUM 10 FT HORIZONTAL SEPARATION BETWEEN RAW AND FINISHED WATER MAIN AND SEWER AND STORM SEWER.
6. SEE PROJECT SPECIFICATIONS FOR SOIL BORING LOGS AND LOCATION MAP.
7. MAINTAIN 15' MAXIMUM COVER ON ALL RAW AND FINISHED WATER MAIN. CONTRACTOR TO NOTIFY ENGINEER OF AVERAGE RUNNING DEPTH OF DRILLING MACHINE DURING CONSTRUCTION.
8. CONTRACTOR TO SUBMIT DETAILED SCHEDULE MINIMUM 1 WEEK PRIOR TO BEGINNING CONSTRUCTION ACTIVTIES FOR COORDINATION WITH THE CITY OF RAMSEY UTILITIES DEPARTMENT. CONTACT UTILITIES SUPERINTENDENT JOHN NELSON AT 763.250.4592. CITY OF RAMSEY TO OPERATE VALVES AND HYDRANTS FOR CONTRACTOR.
9. DURING INSTALLATION OF THE FITTINGS AND PIPING BETWEEN THE CONNECTION TO THE EXISTING RAW WATER MAINS AND THE GATE VALVE AT STA. 1+27.42, CLEAN THE INTERIOR OF THE COMPONENTS BY MECHANICAL MEANS AND SWAB WITH 5% SODIUM HYPOCHLORITE DISINFECTING SOLUTION.



SEH Project	RAMSY174498
Drawn By	JRB, SRP
Designed By	KLK
Checked By	CES

Rev.#	Revision Issue Description	Date
.		
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.		

Rev.#	Revision Issue Description	Date
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.		
.		

SEH

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MN.

DATE 10-06-2023

David E. Hutton
LICENSE NO. 19133

WATER TREATMENT PLANT
TRUNK WATER MAIN IMPROVEMENTS
Ramsey, Minnesota

PLAN AND PROFILE
COTTONWOOD PARK TRAIL

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SEH
3535 VADNAIS CENTER DR.
ST. PAUL, MN 55110
PHONE: (651) 490-2000
FAX: (651) 490-2150
WATTS: 800-325-2055
www.sehinc.com

Project: RAMSY 159783
Print Date: 6/17/2021

Map by: rbeduhn
Projection: UTM NAD 83 ZONE 15N
Source: MnGeo, SEH, ESRI

WETLAND DELINEATION RESULTS

Ramsey WTP Trunk Watermain Wetland Delineation
Ramsey, Anoka County, Minnesota

Figure 7-1

Path: X:\PT\R\RAMSY\159783\3-env-stdy-regs\30-env-docl\90-wetlands\GIS\Fig07_Results.mxd

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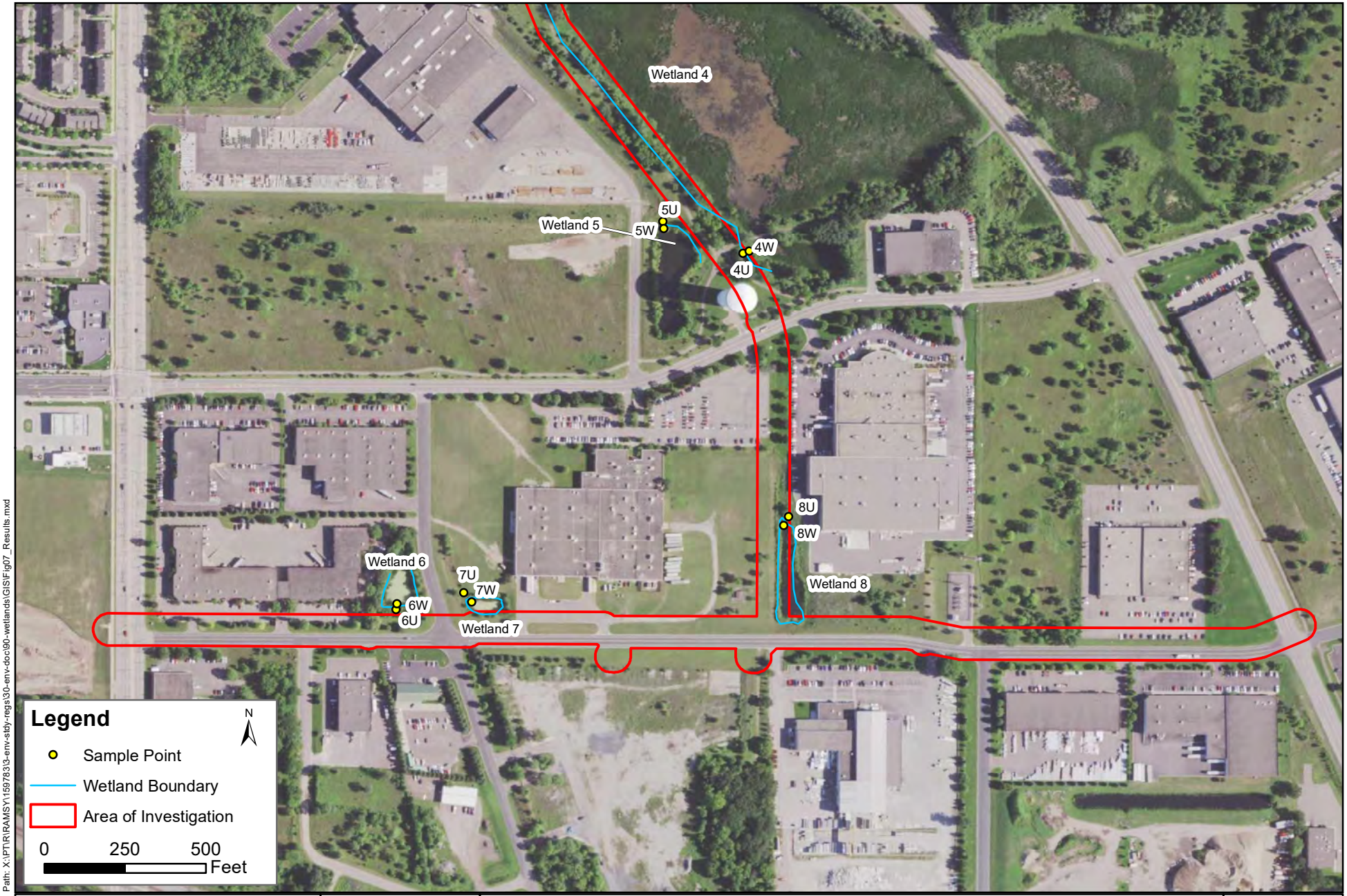
Figure 7-1



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WETLAND DELINEATION RESULTS

Ramsey WTP Trunk Watermain Wetland Delineation
Ramsey, Anoka County, Minnesota

Figure 7-1

Lower
Rum River
WMO

Permit # 23-23

GRADING, STORMWATER MANAGEMENT AND EROSION/ SEDIMENT CONTROL PERMIT APPLICATION

A $150.00 application fee and additional $700.00 escrow deposit must accompany this permit application.

Permits are to be processed at the same time as the site plan, preliminary plat or other city land use or building application submitted to the city in which the work or project is located.

The permit application and supporting documentation must be submitted to the LRRWMO by the THIRD THURSDAY OF THE MONTH TO BE ON THE FOLLOWING REGULARLY SCHEDULED MONTHLY LRRWMO MEETING AGENDA. A PERMIT NUMBER WILL NOT BE ASSIGNED UNTIL CITY AUTHORIZATION IS RECEIVED.

Project Name: City of Ramsey Watermain

Address/Location: City of Ramsey

Project Description/Purpose: Water Treatment Plant Trunk Watermain Improvements

City of Ramsey, Bruce Westby	Dave Hutton, SEH, Inc.
Name of Applicant (Site Owner or Property Owner)	Applicant's Contact Organization Name
7550 Sunwood Drive NW	10650 Red Circle Drive, Ste 500
Address	Address
Ramsey, MN 55303	Minnetonka, MN 55343
City, State, Zip	City, State, Zip
763-433-9825	952-797-2329
Phone Fax	Phone Fax
bwestby@cityoframsey.com	dhutton@sehinc.com
Email	Email

Submittal Requirements

Completed Grading, Stormwater Management and Erosion/ Sediment Control permit applications are to be submitted as per LRRWMO attachments G1 (Permit Requirements) and G2 (Office Procedure) included with this application. Note that projects involving potential wetland impacts and/or involving a Wetland Replacement Plan require a separate permit application and are subject to additional requirements.

PROJECT SUBMITTALS (check all that apply):

- ☐ **GRADING PLAN:** Including existing and proposed contours and boundaries of all wetlands and surface waters.
- ☐ **STORM SEWER/ DRAINAGE PLAN:** Including all permanent drainage features and all permanent water quality features.
- ☐ **STORM DRAINAGE CALCULATIONS:** Design computations as required by the LRRWMO.
- ☒ **EROSION CONTROL PLAN:** Including all temporary and permanent measures proposed to retain all sediment on site.
- ☐ **OTHER**

Lower
Rum River
WMO

START OF PROJECT: Spring 2024

EST. COMPLETION DATE: Fall 2024

APPROVAL DATE: _____

By signing this Permit Application, the undersigned consents and agrees on behalf of the Applicant that:

1. The permit application fee is non-refundable. Escrow deposits will be held by the LRRWMO until the project has been completed and all conditions of issuance of the permit are satisfied. The Applicant is responsible for all expenses incurred by the LRRWMO in the processing, administration and enforcement of the permit application and permit. The escrow deposit will be used to reimburse the LRRWMO for all expenses incurred by the LRRWMO in processing, administering and enforcing the permit application and permit, including engineering, legal and other consultant costs. If such expenses exceed the escrow deposit, the LRRWMO will bill the Applicant or Permittee for such excess amount and payment will be due within twenty (20) days of mailing the invoice. Timely payment of such invoices is a condition of all permits and work may be stopped on the project for failure to make payments when due.
2. The undersigned, its agents, principal, assigns and/or representatives (hereinafter "Permittee") shall abide by all the standard conditions and special terms and conditions of the LRRWMO.
3. Any work that violates the terms of the permit may result in the LRRWMO or the City in which the work is being done immediately causing the work on the project relating to the permit to cease and desist. All work on the project shall cease until the permit conditions are met and approved by the LRRWMO and/or the City in which the work is being done.
4. The Permittee agrees to be bound by the terms of the LRRWMO permit requirements, final permit, standard conditions, and special conditions required by the LRRWMO for approval of the permit. The undersigned has the authority to bind the permit holder, the owner of the property and/or any entity performing work on the property pursuant to the terms of LRRWMO permit, and shall be responsible for complying with terms of the LRRWMO permit.

"I certify that I have thoroughly read and understand the above information."

Diana Lund
Signature of property owner or designated Agent (no agent without a letter of authority)

1/19/24
Date

_____
Signature of applicant if different from property owner

1/19/24
Date

Diana Lund
Print Signer's name

_____
Print Signer's name

Application Acknowledged by City: Bruce Wendt
Name of City Official

Ramsey
City

1/19/2024
Date

SIGNATURE OF LRRWMO CHAIRMAN: **

NOTE: Subject to conditions recommended by Barr Engineering (see attached)

PERMIT IS NOT VALID IF PROJECT HAS NOT STARTED WITHIN ONE YEAR FROM DATE OF APPROVAL

118072

Payee: 100268 LRRWMO CITY OF ANOKA

Check No. - 118072 Stub 1 of 1
Check Date - 1/19/2024

Supplier Invoice No	Date	Remark	PO	Amount
01192024	1/19/2024	PROJ 21-08 PERMIT APP FEES		850.00

850.00

PLEASE DETACH BEFORE DEPOSITING

THE FACE OF THIS DOCUMENT HAS A COLORED BACKGROUND ON WHITE PAPER AND MICROPRINTING. THIS DOCUMENT HAS A TRUE WATERMARK-HOLD TO LIGHT TO VIEW.

City of Ramsey
7550 Sunwood Drive NW
Ramsey, Minnesota 55303

100268

BANK OF THE WEST
Ramsey
14125 St. Francis Blvd.
Ramsey, MN 55303
1-800-488-2265

118072 90-78/1211

00118072
NUMBER

DATE 1/19/2024 AMOUNT $*******850.00

PAY EIGHT HUNDRED FIFTY AND 00/100**********

VOID IF NOT CASHED WITHIN 90 DAYS

TO THE ORDER OF
LRRWMO CITY OF ANOKA
2015 - 1ST AVENUE NORTH
ANOKA MN 55303

Mark E Hixson

⑈118072⑈ ⑆091200961⑆ 028896555⑈

Lower Rum River WMO

Memorandum

To: Lower Rum River Watershed Management Organization
From: Stephanie Johnson, Barr Engineering Co.
Date: February 9, 2024
Subject: Permit #2023-23: Water Treatment Plant Watermain Improvements: Ramsey

We have received plans and a LRRWMO permit application for the Ramsey Water Treatment Plant Trunk Watermain Improvements along Bunker Lake Boulevard N.W., through Cottonwood Park, and along 143rd Avenue N.W. in Ramsey. The work will involve the reconstruction of +/- 10,500 linear feet of watermain and the associated replacement of impervious surfaces and storm sewer infrastructure. The existing drainage patterns are to be maintained, and the project will not increase the existing impervious area within the 7.0-acre project corridor.

Because this is a utility reconstruction project within the road right-of-way and will not create additional impervious surface, the LRRWMO storm water requirements are not applicable for the project. The LRRWMO erosion and sediment control requirements do apply.

Silt fence, inlet protection, and sediment control logs are to be installed along the utility reconstruction corridor, and as necessary, for erosion control. Disturbed areas are to be restored with seeding and erosion control blanket.

Compliance with requirements of the Wetland Conservation Act and comments from the Technical Evaluation Panel (TEP) are being reviewed under LRRWMO Permit #2023-22.

It is our recommendation that the LRRWMO approve the permit for this project subject to the following conditions:

1. The LRRWMO approval of Permit #2023-23 for the watermain reconstruction is contingent upon approval and compliance of recommendations/conditions for Permit #2023-22, the review of the project in accordance with the requirements of the Wetland Conservation Act.

2. Erosion control measures must be installed prior to the commencement of construction.

3. Upon completion of construction and restoration of disturbed areas, the permit applicant is responsible for the removal of all erosion control measures installed throughout the construction site.

4. As necessary and applicable to minimize the potential of material from leaving the site and being tracked onto Bunker Lake Boulevard N.W., Sunwood Drive N.W., and 143rd Avenue N.W., rock filter construction entrances being a minimum of two feet in height and having side slopes

of 4:1 be constructed at the entryways onto the site, specifically through Cottonwood Park. The rock construction entrance will provide an erosion control facility and enable construction traffic to enter the site.

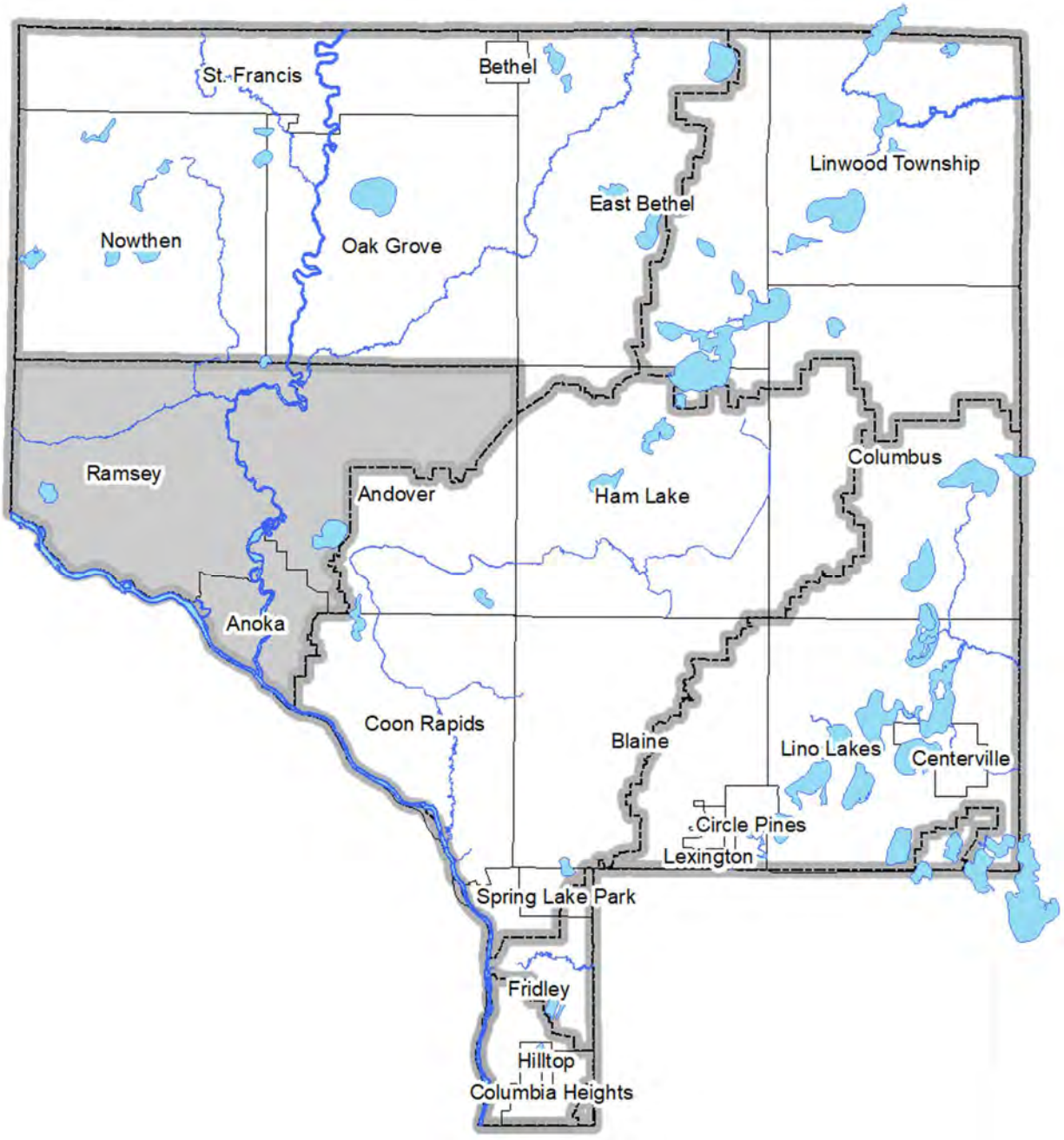
5. Street sweeping must be undertaken and completed on an as needed basis.

6. The project plan for watermain improvements shows no increase in the project impervious area resulting from the watermain improvements. Should plans change, and improvements result in an increase in impervious area, a storm water management plan must be provided showing the LRRWMO storm water criteria are met.

7. In all cases where the doing by the permittee of anything authorized by this permit shall involve the taking, using, or damaging of any property, rights or interests of any other person or persons, or of any publicly owned lands or improvements or interests, the permittee; before proceeding; shall obtain the written consent of all persons, agencies, or authorities concerned, and shall acquire all necessary property rights and interest.

Excerpt from the 2023 Water Almanac

Chapter 4: Lower Rum River Watershed



Prepared by the Anoka Conservation District

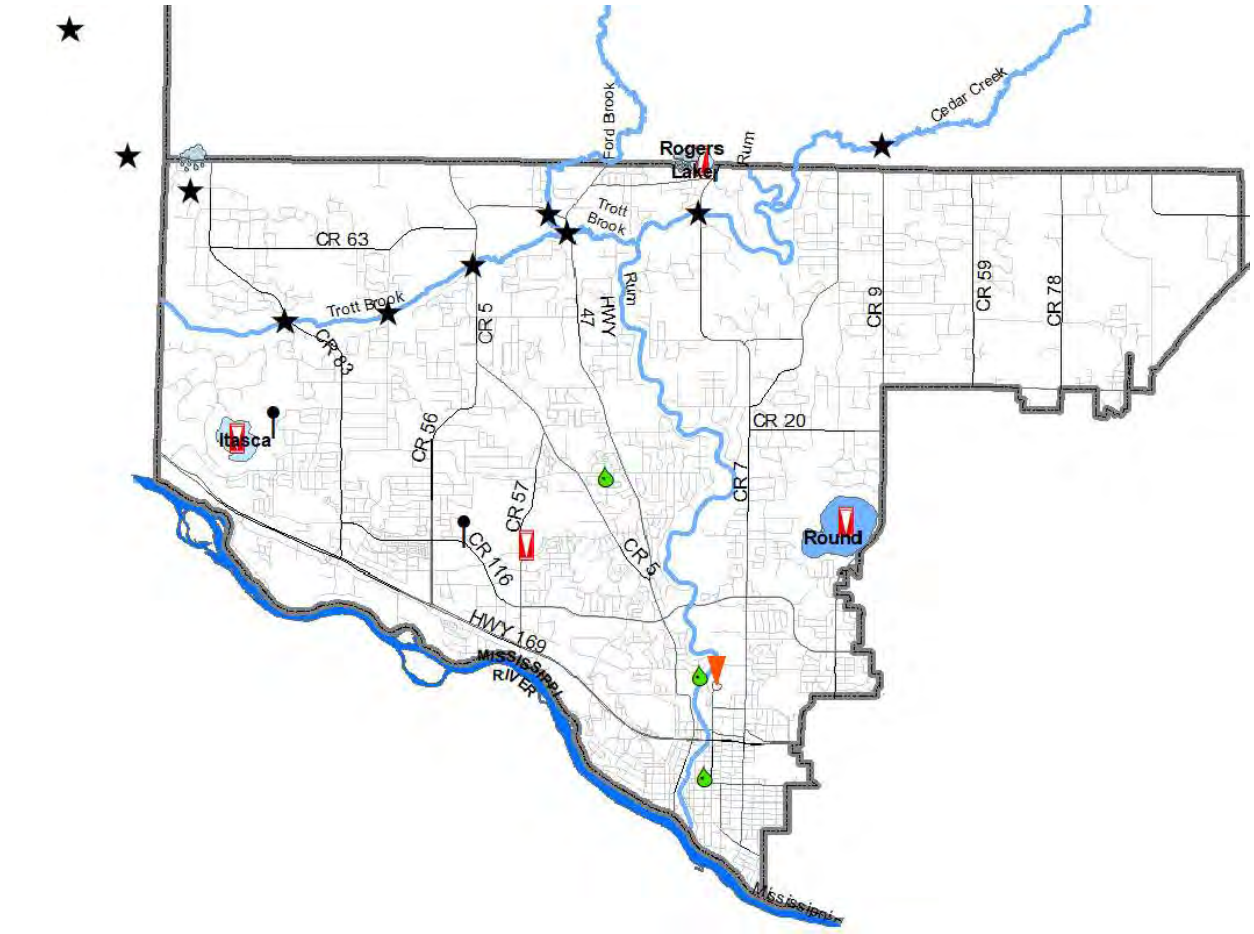
Table of Contents

Recommendations

- **Complete the ongoing subwatershed studies in 2024.** The studies identify and rank water quality projects in areas draining to the Rum River and Mississippi River. This was funded by a 2021 Rum Metro Watershed Based Implementation Funding (WBIF) grant.
- **Continue to install projects identified in the stormwater retrofit studies.** Projects have been identified and ranked.
- **Install additional stormwater treatment, when appropriate, during street projects.**
- **Continue to collaborate with ACD on riverbank stabilizations.** ACD has secured large grants. Local matching funding is needed and the projects are a priority in the LRRWMO Plan.
- **Complete the Trott Brook study of low oxygen 2024.** The study will follow upstream to downstream monitoring in 2023. The study already has a grant funding source. In the meantime, ensure developments draining to the stream have robust stormwater treatment.
- **Manage phosphorus levels in the Rum River.** Phosphorus levels are close to state water quality standards. It may be appropriate to review development and stormwater discharge ordinances to ensure phosphorus does not increase in coming years.
- **Implement groundwater conservation measures** throughout the watershed and promote them metro-wide. Promote sealing of unused wells and regular well water testing. Depletion of shallow groundwater is a concern region-wide.
- **Promote Septic System Fix-up Grants to landowners,** particularly in shoreland areas. Grants are for low-income households.
- **Continue to prioritize water quality monitoring** at a frequency sufficient to detect baseline conditions and to be able to be proactive detecting any changes and trends.
- **Continue chloride sampling at all sites on a rotating basis.** Chloride can have such a profound impact on aquatic life and drinking water, continuing to periodically include it in the monitoring regime is prudent.
- **Track activities of the Rum River Watershed Partnership.** That group developed a comprehensive plan for the watershed through the One Watershed, One Plan (1W1P) process and receives >$1M in state funds biennially to implement it. The LRRWMO is not a member, but may wish to track activities in the upper watershed or collaborate. Project types identified in the LRRWMO area include stormwater retrofits, riverbank stabilization, public outreach, and others.

2023 Water Monitoring Sites Map

Lower Rum River Watershed



2023 Monitoring Sites

- Stream WQ
- Anoka County Weather
- Volunteer Precipitation
- Wetland Hydrology
- Groundwater Hydrology
- Lake WQ

Lake Level Monitoring

Partners: LRRWMO, ACD, MNDNR, Volunteers

Description: Weekly water level monitoring was conducted using staff gages installed in each lake. The past five and twenty-five years of data for each lake are illustrated below, and all historical data are available on the Minnesota DNR website using the "LakeFinder" feature (www.dnr.mn.us.state\lakefind\index.html). The Ordinary High Water Level (OHW) is listed for each lake on the corresponding graphs below and any work that is to occur below this elevation a DNR permit is required.

Purpose: To understand lake hydrology, including the impact of climate or other water budget changes. These data sets are useful for regulatory, building/development, and lake management decisions.

Locations: Round, Rogers, Itasca, and Sunfish/Grass.

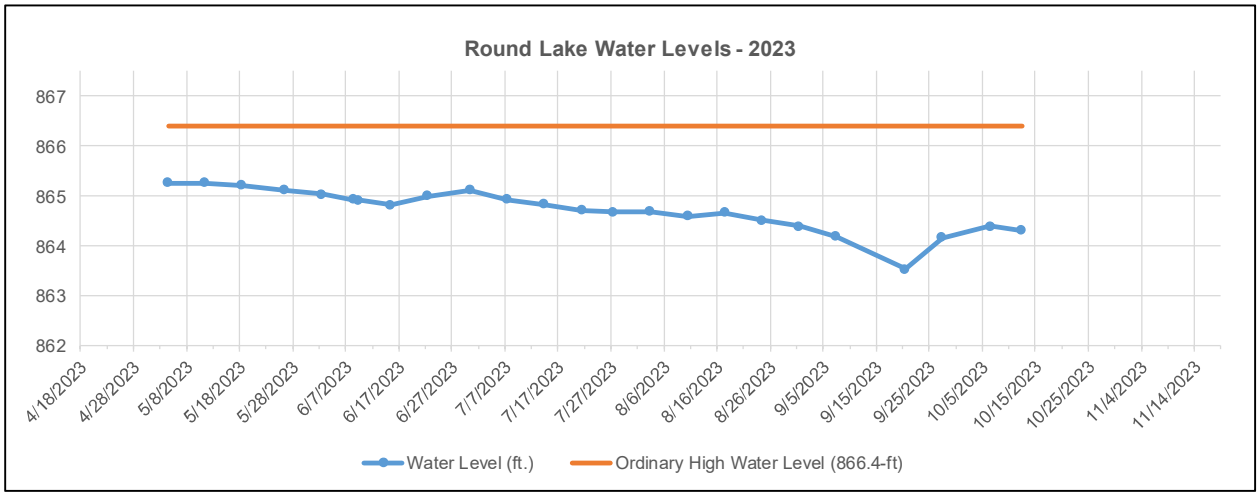
Results: **Round.** In 2023, Round Lake water levels were within the historically observed range, however that range is wide and has been the subject of past disputes and studies. During 2000 to 2010, water levels were lower. During 2010 to 2020, water levels were higher. Since 2020 water levels appear to be dropping to lower levels once again. Both 2022 and 2023 have had summertime droughts. Spring 2023 had flooding in many areas due to heavy snowpack, but not at Round Lake because it has no significant stream flows in or out. Lower levels result in increased vegetation and difficulty launching any watercraft from the dirt public access.

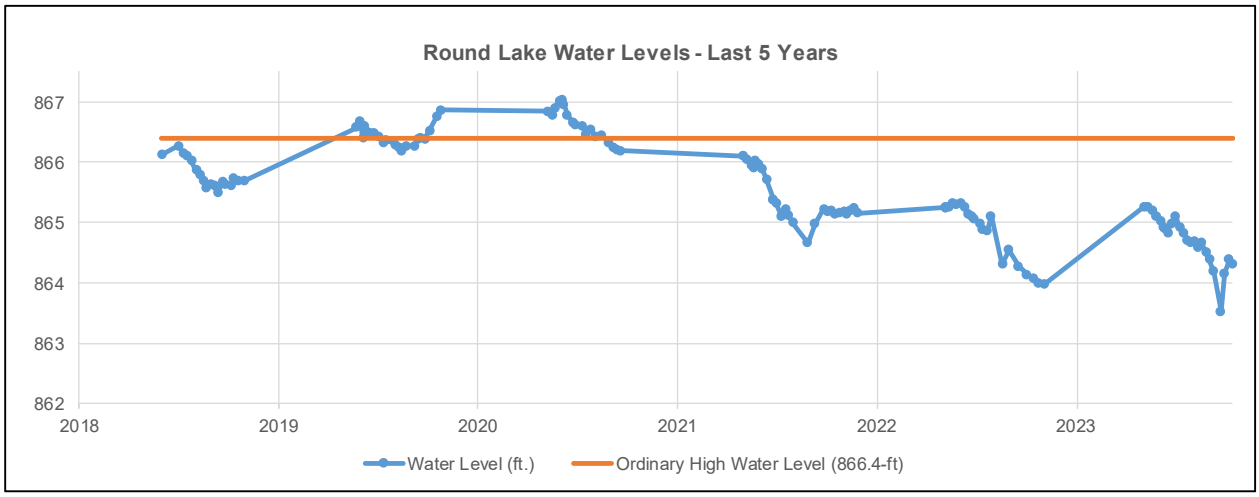
Rogers. In 2023, Rogers Lake levels were slightly lower than most years and ranged 1.27 feet, which is not atypical for this lake. This year was the lowest recorded reading since 2010. Levels were similar, but slightly lower, than those recorded in 2022.

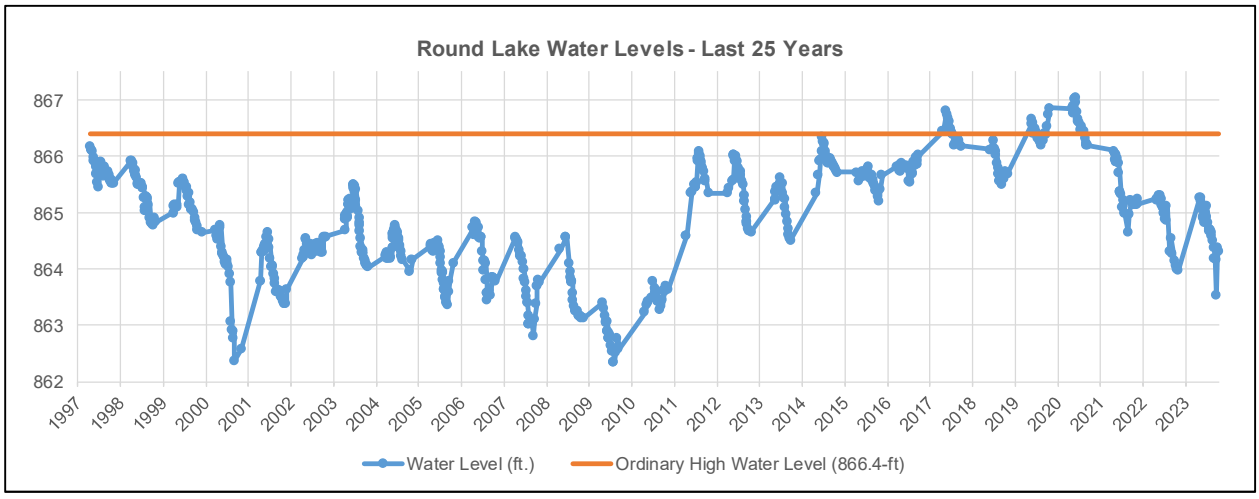
Itasca. Itasca Lake is small and shallow but the observed historic range of lake levels is around 6 feet. It is presently in the lower end of the historically observed range, and more than three feet lower than 2023. Residents have expressed concern about water levels, including the possible impacts of groundwater depletion or climate changes. They have also expressed concern about cattail growth. Low water levels increased cattail growth and made it difficult for the volunteer to take readings throughout the season.

Sunfish / Grass. The volunteer secured to monitor this lake did not take any readings in 2023. No data was collected in 2023.

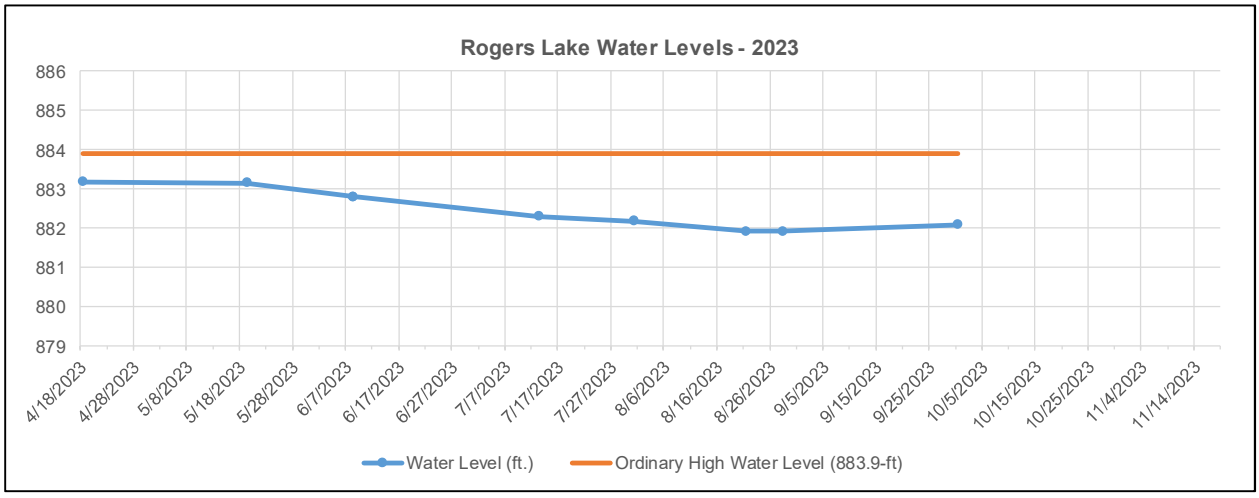
Round Lake – Lake Water Levels

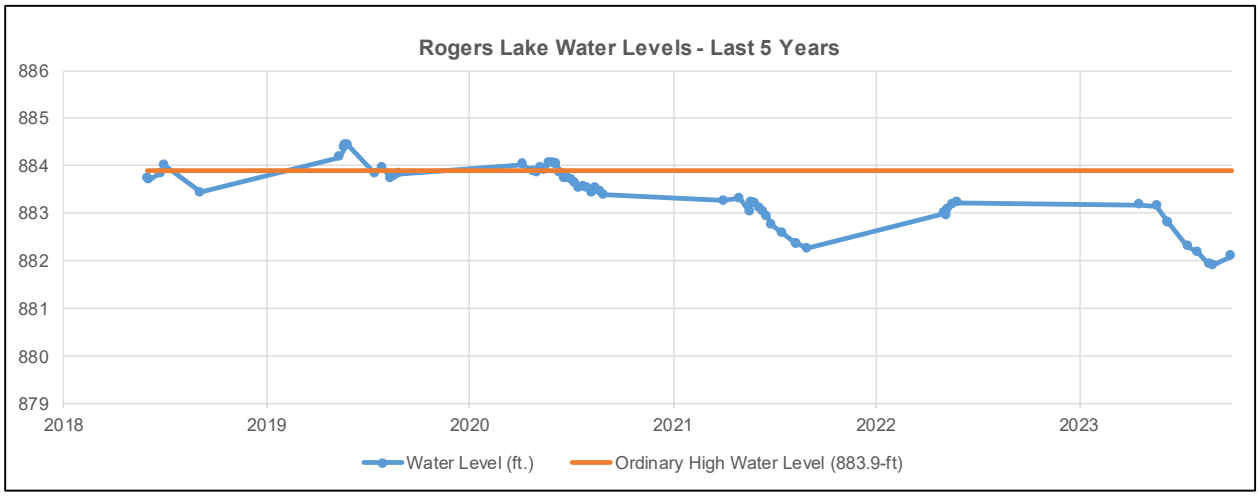


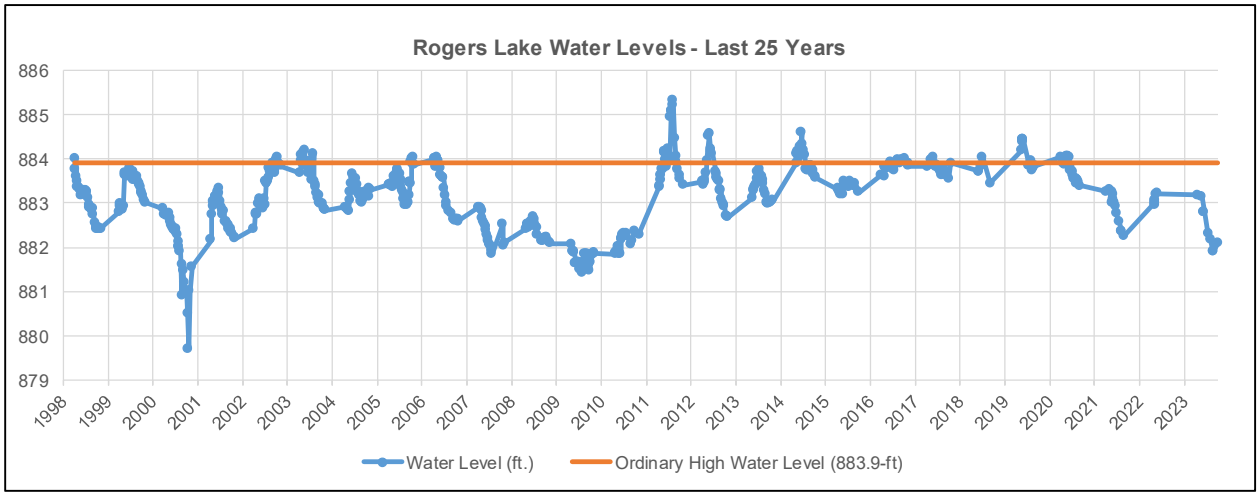




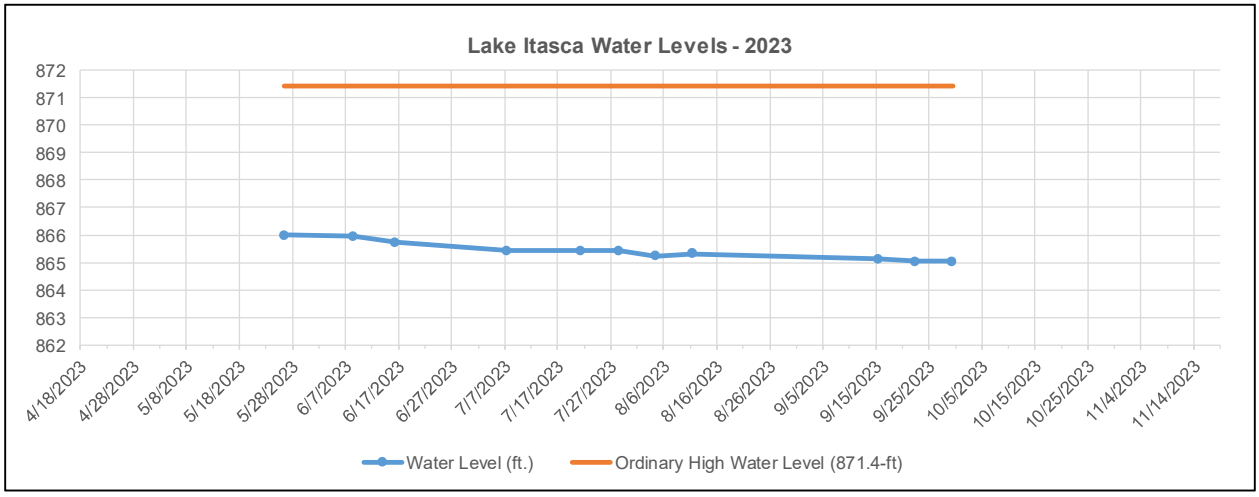
Rogers Lake – Lake Water Levels

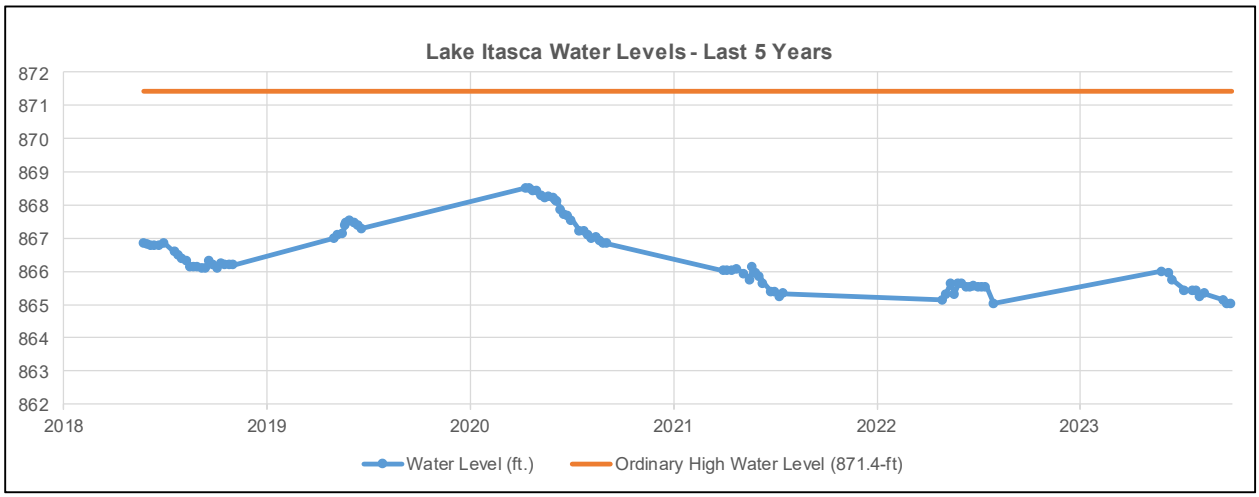


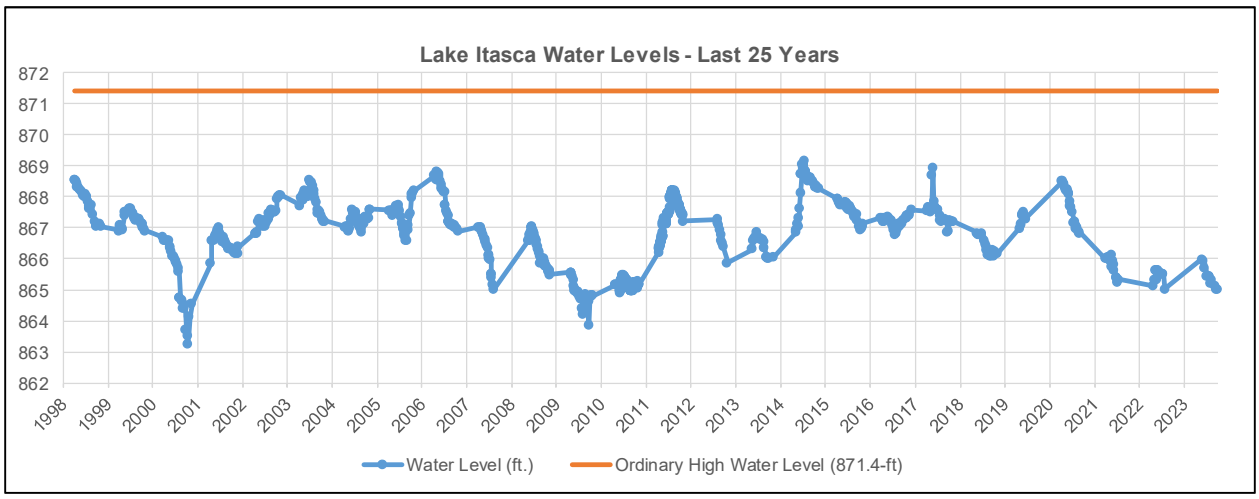




Lake Itasca – Lake Water Levels







Lake Water Quality

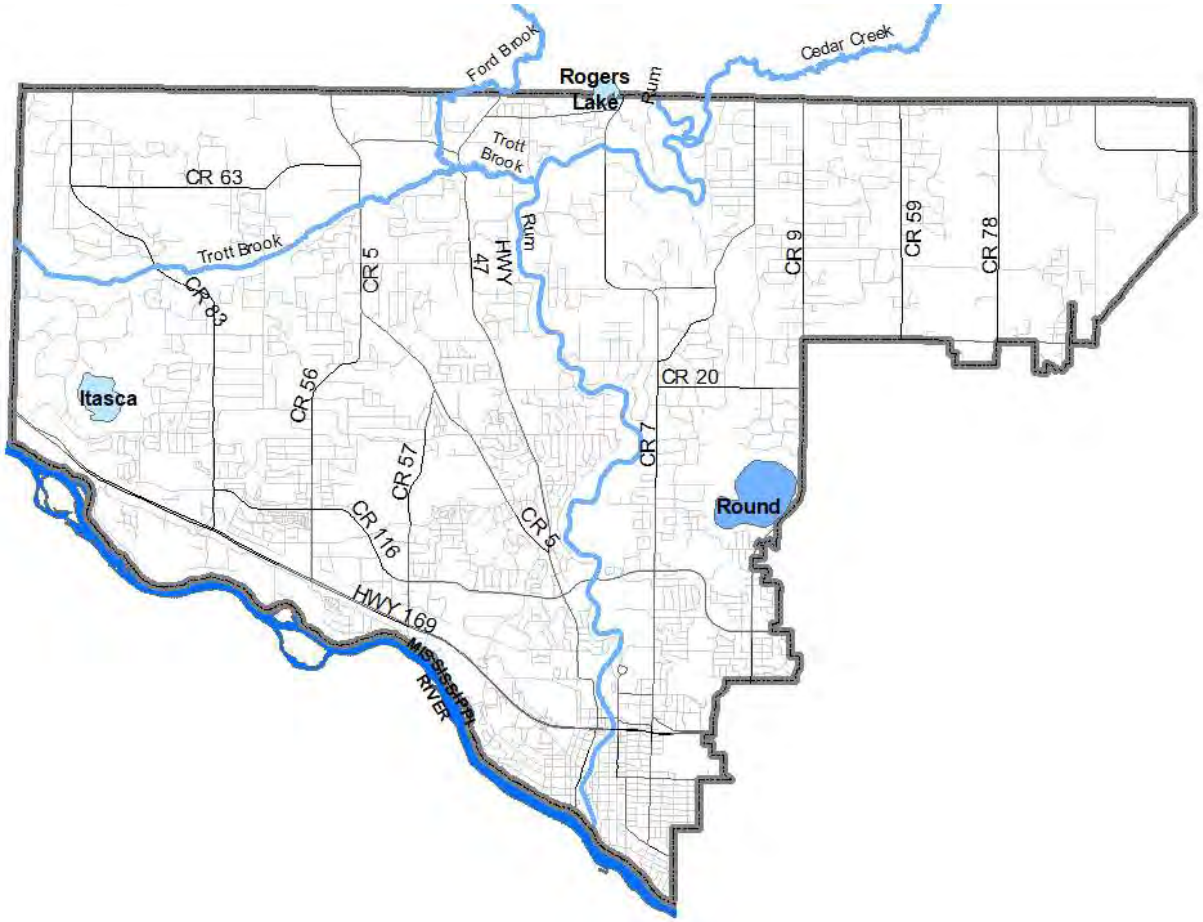
Partners: ACD and LRRWMO

Description: Lake water quality monitoring was conducted ten-times between May – October, approximately every two weeks.

Location: Round Lake

Results: Detailed data for each lake are provided on the following pages, including a summary of historical conditions and trend analysis. Previous years' data are available from the Minnesota Pollution Control Agency's (MPCA) electronic data access (EDA) website. Refer to Chapter 1 for additional information on lake dynamics and interpreting the data.

2023 LRRWMO Lake Water Quality Monitoring Site (darker shaded lakes monitored in 2023)



Round Lake

CITY OF ANDOVER, LAKE ID # 02-0089

Background

Round Lake is located in southwest Anoka County. It has a surface area of 260 acres and maximum depth of 15 feet, though the majority of the lake is less than 4 feet deep. The lake is surrounded by cattails and has submerged vegetation interspersed throughout the lake basin. This lake has a small watershed and is not subject to many of the negative impacts that occur on more developed lakes. Public access is available on the lake's southeast side but the access is an unmaintained dirt ramp and is not heavily used. Recreation is minimal, primarily consisting of canoeing, kayaking, and wintertime fishing.

2023 Results

In 2023, Round Lake's water quality was exceptional compared with other lakes in the region (NCHF Ecoregion), receiving an overall A letter grade. This was an improvement from the C+ letter grade the lake received in 2022, and similar to other A-grades received in previous monitoring years (2012, 2014, 2016, 2019). The average concentrations for total phosphorous (19.3 µg/L) and chlorophyll-a (7.4 µg/L) were both well below the state standards for shallow lakes (60 µg/L and 20µg/L, respectively) and some of the lowest on record. Average Secchi transparency in 2023 was 8.4 feet, which was better than the historical average for Round Lake (8.3 feet) and 1.8 feet greater than the average transparency recorded in 2022. Overall, water quality in Round Lake in 2023 was excellent and was similar to previous years before 2022.

Trend Analysis

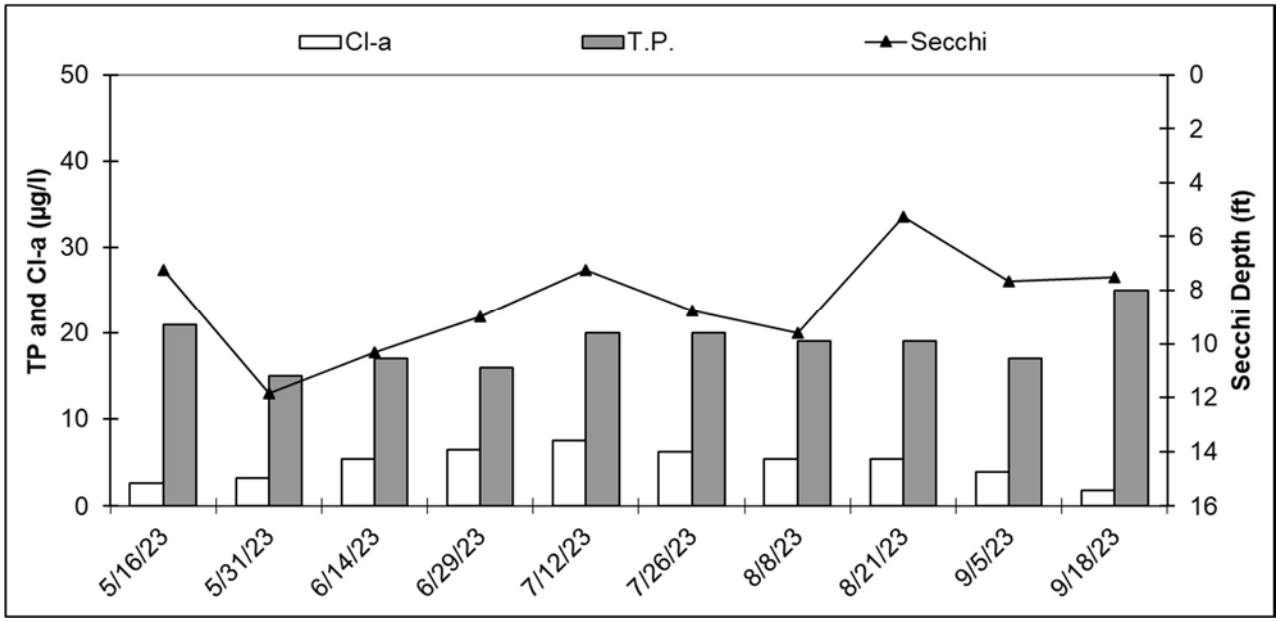
Fourteen years of water quality monitoring has been conducted by ACD (1998-'00, '03, '05, '07, and '09-'10, '12, '14, '16, '19, '22, '23). When analyzing water quality between 1998 and 2023 no statistical significant trend was detected (MANOVA model including response variables total phosphorous (TP), chlorophyll-a (Cl-a), and Secchi depth $F_{3,12} = 0.21$, $p = 0.88$). We also examined each of the response variables separately using a one-way ANOVA model and no significant trends were observed.

Discussion

Poor water quality in Round Lake appears to be correlated with low water levels. From 2007 to 2010, water levels on Round Lake were 2-3 feet lower than typically observed in other years. During that same time period there was a statistically significant trend of declining water quality, which earned C letter grades. When higher water levels returned in Round Lake from 2012 through 2021, water quality improved back to A letter grades. 2022 and 2023 have had declining, but still moderate lake levels, and lake water quality has remained A or B letter grades. Based on this data, one might speculate that additional drops in the lake level may soon approach the tipping point at which water quality is negatively impacted. Internal nutrient sources and wind-driven sediment mixing are likely contributors of elevated phosphorus levels during low water. Staff have also anecdotally noted a visible reduction of chara (a plant-like algae) during prolonged low water. Chara normally carpets the basin bottom and can minimize wind mixing of sediment. There have been concerns that surficial groundwater levels are being negatively impacted by a variety of causes including irrigation, residential groundwater use, and stormwater management. Conservation of groundwater is a regional and local priority.

ROUND LAKE

2023 Results



2023 Median Results

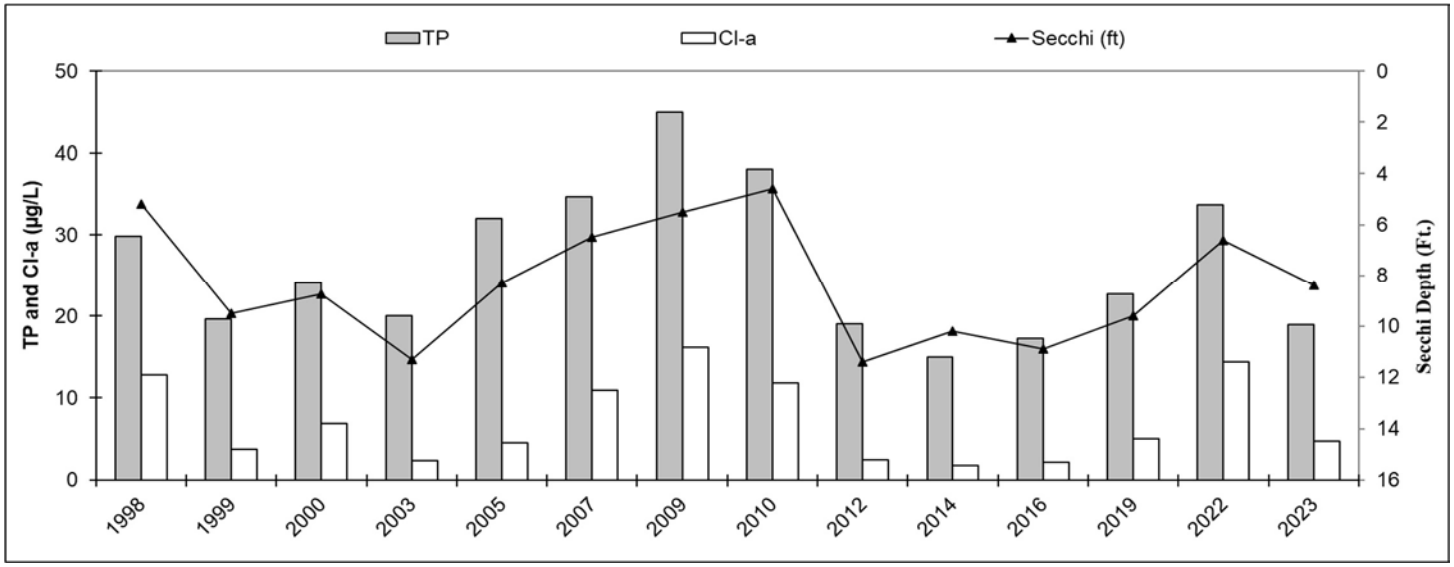
pH		8.65
Specific Conductance	mS/cm	0.35
Turbidity	NTU	0.05
D.O.	mg/l	9.52
D.O.	%	116.40
Temp.	°F	76.29
Salinity	%	0.17
Cl-a	µg/L	5.34
T.P.	µg/l	19.00
Secchi	ft	8.21

Round Lake
02-0089-00-201
2023 Water Quality Data

		Date:	5/16/2023	5/31/2023	6/14/2023	6/29/2023	7/12/2023	7/26/2023	8/8/2023	8/21/2023	9/5/2023	9/18/2023			
		Time:	11:00	10:40	12:04	11:30	11:30	11:00	11:25	12:30	11:25	10:50			
	Units	R.L.*	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Average	Min	Max
pH		0.1	8.34	8.65	8.32	8.25	8.60	8.68	8.71	8.44	8.61	8.41	8.50	8.25	8.71
Specific Conductivity	mS/cm	0.01	0.233	0.241	0.242	0.239	0.244	0.237	0.234	0.232	0.227	0.234	0.236	0.227	0.244
Turbidity	NTU	1	1.60	0.40	0.30	0.30	1.70	0.000	2.00	0.40	0.90	1.80	0.94	0	2
D.O.	mg/l	0.01	10.29	10.28	8.47	9.23	8.59	9.61	8.77	9.23	8.88	8.73	9.21	8.47	10.29
D.O.	%	100.0%	111.7	123.3	106.9	113.6	104.4	124.5	111.9	109.7	111.7	98.6	111.6	98.6	124.5
Temp.	°C	0.1	18.18	22.57	22.90	25.15	23.41	26.81	26.13	23.14	25.04	19.69	23.3	18.2	26.8
Temp.	°F	0.1	64.7	72.6	73.2	77.3	74.1	80.3	79.0	73.7	77.1	67.4	73.9	64.7	80.3
Salinity	%	0.01	0.11	0.12	0.12	0.12	0.12	0.12	0.11	0.11	0.11	0.11	0.12	0.11	0.12
Cl-a	µg/L	1	1.34	8.54	4.27	6.41	8.54	6.23	7.12	9.79	13.35	8.01	7.36	1.3	13.4
T.P.	mg/l	0.005	0.014	0.018	0.014	0.015	0.016	0.015	0.022	0.027	0.027	0.025	0.019	0.014	0.027
T.P.	µg/l	5	14	18	14	15	16	15	22	27	27	25	19.30	14	27
Secchi	ft		13.4	10.1	12.0	9.2	7.1	9.4	7.9	5.5	6.0	6.0	8.66	5.5	13.4
Secchi	m		4.09	3.07	3.66	2.79	2.16	2.87	2.41	1.68	1.83	1.83	2.6	1.7	4.1
Physical			1	1	1	1	1	1	1	1	1	2	1.1	1.0	2.0
Recreational			1	1	1	1	1	1	2	1	1	2	1.2	1.0	2.0

*Reporting Limit

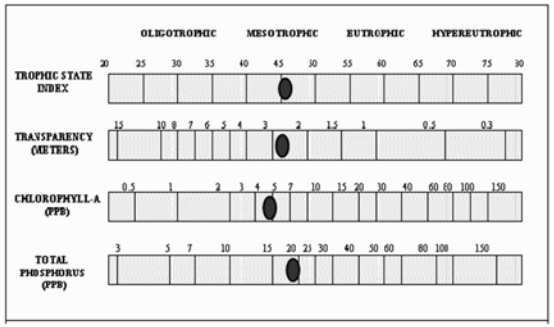
Historical Annual Averages



Historical Report Card

Year	TP	Cl-a	Secchi	Overall
1998	B	B	C	**B**
1999	A	A	B	**A**
2000	B	A	B	**B**
2003	A	A	A	**A**
2005	B	A	B	**B**
2007	C	B+	C	**C**
2009	C	B	C	**C**
2010	C	B	C	**C**
2012	A	A	A-	**A**
2014	A	A	A	**A**
2016	A	A	A	**A**
2019	A	A	B	**A**
2022	C	B	C	**B**
2023	A	A	B	**A**
State Standards	60 ug/L	20 ug/L	>3.3 ft	

Carlson's Trophic State Index



Grade	Percentile	TP (µg/L)	Cl-a (µg/L)	Secchi Disk (m)
A	< 10	<23	<10	>3.0
B	10 - 30	23 – 32	10 - 20	2.2 - 3.0
C	30 – 70	32 – 68	20 – 48	1.2 – 2.2
D	70 – 90	68 – 152	48 – 77	0.7 – 1.2
F	> 90	> 152	> 77	< 0.7

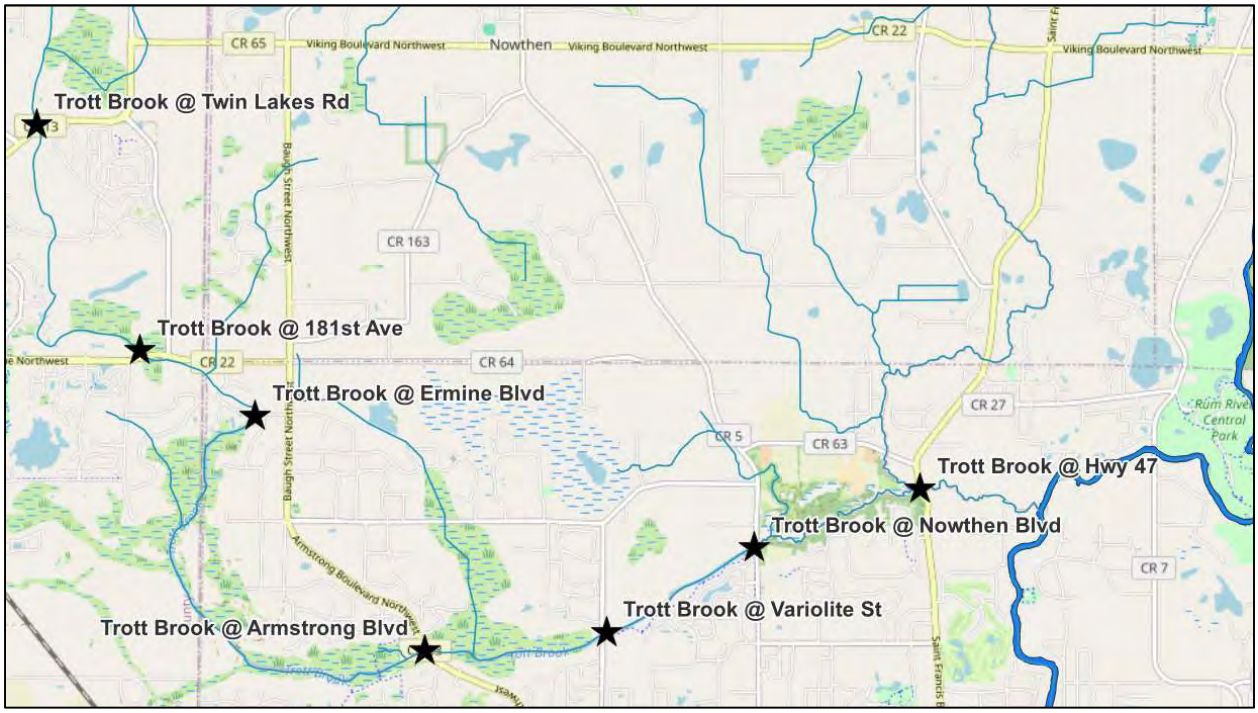
Trott Brook Dissolved Oxygen Study

Partners: ACD, LRRWMO, and MPCA

Description: Water quality monitoring focused on dissolved oxygen was conducted from upstream to downstream in order to identify sources of or reasons for low oxygen in downstream reaches of Trott Brook. This stream is listed as impaired for low oxygen based on monitoring only at the Nowthen Blvd crossing. Water quality monitoring was conducted eight-times between May – October, four times following storm events and four times during baseflow conditions. The monitoring parameters includes total phosphorus, dissolved oxygen, turbidity, temperature, specific conductance, pH, and salinity. Additionally, the MN Pollution Control Agency (MPCA) deployed sondes at four sites for seven days which took hourly measurements of dissolved oxygen, allowing analysis of diurnal fluctuations.

Locations: From upstream to downstream - Trott Brook at Twin Lakes Rd, Trott Brook at 181st Ave, Trott Brook at Ermine Blvd (near Eaton St.), Trott Brook at Armstrong Blvd, Trott Brook at Variolite St, Trott Brook at Nowthen Blvd, Trott Brook at Highway 47

2023 Trott Brook Monitoring Sites



Trott Brook Stream Water Quality

Trott Brook at Hwy 47, St. Francis	STORET Site ID = S017-043
Trott Brook at Nowthen Blvd, St. Francis	STORET Site ID = S003-176
Trott Brook at Variolite St, Oak Grove	STORET Site ID = S004-306
Trott Brook at Armstrong Blvd, Ramsey	STORET Site ID = S008-652
Trott Brook at Ermine Blvd, St. Francis	STORET Site ID = S003-202
Trott Brook at 181st Blvd, St. Francis	STORET Site ID = S017-041
Trott Brook at Twin Lake Rd, Oak Grove	STORET Site ID = S017-042

Background

In 2023, monitoring was completed at seven sites along the Trott Brook system in western Anoka County and eastern Sherburne County. The objective was to help determine how water quality changes from upstream to downstream, and where these changes are occurring. Emphasis was on determining the causes of low dissolved oxygen levels in the Trott Brook system. Trott Brook is on the State's list of impaired water for low oxygen based on monitoring only at the Nowthen Blvd site. The data is reported for all sites, side-by-side, for a more comprehensive analysis of water quality in the Trott Brook, upstream to downstream.

Results Summary

This report includes data from 2023 and an overview of historical data. The following is a summary of results.

- Dissolved constituents were measured by specific conductivity. Specific conductivity in Trott Brook is lower than other Anoka County streams and within the healthy range. Periodic monitoring every 2-5 yrs. is recommended.
- pH was within a healthy range (6.5-8.5) at all monitoring sites in 2023.
- Dissolved oxygen occasionally fell below the state standard of 5 mg/L; five occasions during baseflow and two occasions post-storm. Low dissolved oxygen levels have historically been observed in Trott Brook, however, it isn't limited to a specific area. Low DO is likely the result of increased nutrients in the system, which organic matter from peaty wetlands combines with slow-moving water from a flat, meandering stream.
- Phosphorus levels in Trott Brook in have occasionally exceeded the state standard of 100 µg/L at all sampled sites, but has been lower on average. In 2023, average phosphorous at all sites ranged from 60.0 µg/L to 116.8 µg/L during baseflow conditions, and 93.3 µg/L to 126.8 µg/L post-storm. Reducing phosphorus levels in Trott Brook is a regional priority.
- Turbidity remained at acceptable levels in Trott Brook. Robust stormwater treatment within new developments and continued surveillance monitoring is recommended.
- Overall – The priority for Trott Brook is increasing dissolved oxygen and reducing phosphorus. Increasing dissolved oxygen in the Trott Brook may be difficult due to the nature of the stream. Reducing phosphorous is more tangible goal, as a 5% reduction is a top goal identified in local and regional water plans. Achieving it will require work throughout the watershed, including upstream of Anoka County.

Below the data is presented and discussed for each parameter in greater detail. Management recommendations for each parameter is included in individual sections.

Specific Conductivity

Dissolved pollutant sources include urban road runoff, salt, and agricultural or industrial chemicals, among many others. Conductivity is a broad measure of dissolved pollutants. High conductivity often triggers additional work to determine the cause. Specific conductivity was acceptably low in Trott Brook in 2023. The average and median specific conductivity at each site is listed in the tables below. Specific conductivity at the Trott Brook sites were similar, and typically increased slightly upstream to downstream. This likely reflects higher road densities and greater deicing efforts with salt application as well as other pollutant sources associated with increased development.

In 2023, specific conductivity in Trott Brook was observed higher on average during baseflow conditions than during stormflow conditions. This is consistent with trends observed in previous years, and it provides some insight into the pollutant sources. If dissolved pollutants were only elevated after storms, stormwater runoff would be suspected as the primary driver. However, because dissolved pollutants are highest during baseflow conditions, the suspected primary contributor is groundwater, which normally feeds the stream during baseflow. The largest source of pollution is believed to be road salts that have infiltrated into the shallow aquifer. Water softening salts and geologic materials can also be pollution contributors.

Specific Conductivity - 2023 Baseflow Data

	AVG	MED	TOTAL #
Trott Brook @ Twin Lakes Rd	0.561	0.578	4
Trott Brook @ 181st Ave	0.477	0.477	4
Trott Brook @ Ermine Blvd.	0.482	0.477	4
Trott Brook @ Armstrong Blvd	0.556	0.570	4
Trott Brook @ Variolite St	0.563	0.572	4
Trott Brook @ Nowthen Blvd	0.568	0.574	4
Trott Brook @ Hwy 47	0.552	0.587	4

Specific Conductivity - 2023 Stormflow Data

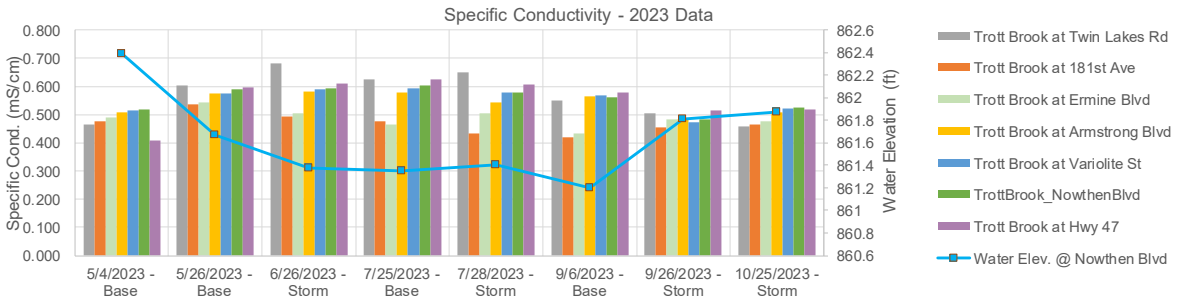
	AVG	MED	TOTAL #
Trott Brook @ Twin Lakes Rd	0.574	0.577	4
Trott Brook @ 181st Ave	0.462	0.460	4
Trott Brook @ Ermine Blvd.	0.492	0.494	4
Trott Brook @ Armstrong Blvd	0.530	0.527	4
Trott Brook @ Variolite St	0.542	0.552	4
Trott Brook @ Nowthen Blvd	0.545	0.553	4
Trott Brook @ Hwy 47	0.563	0.563	4

Specific Conductivity - Historical Baseflow Data

	AVG	MED	TOTAL #
Trott Brook @ Nowthen Blvd	0.489	0.494	19

Specific Conductivity - Historical Stormflow Data

	AVG	MED	TOTAL #
Trott Brook @ Nowthen Blvd	0.421	0.416	18



For water resource management, it is important to note that the sources of dissolved pollutants are generally the same for both stormwater and baseflow it is only the timing of delivery to the waterway that is different. Preventing the release of dissolved pollutants into the environment and treating them before infiltration occurs should be a high priority. Training and equipment that minimize road salting while still maintaining safe roads safe is being increasingly emphasized by watershed managers. The MPCA now provides a training program where organizations and employees to obtain a smart-salting certification, which then has to be renewed every few years.

pH

pH refers to the acidity of the water. The state standard for pH is between 6.5 - 8.5 and pH is generally lower during storm events than during baseflow conditions because the pH of rain is typically lower (more acidic). While acid rain is a longstanding problem, its effect on this aquatic system is minimal.

In 2023, average pH in Trott Brook ranged from 7.61 - 7.80 during baseflow conditions, and 8.04 - 8.57 post-storm. Based on current and historical data, pH in Trott Brook is within the healthy range.

pH - 2023 Baseflow Data

	AVG	MED	TOTAL #	< 6.5	> 8.5
Trott Brook @ Twin Lakes Rd	7.61	7.61	4	0	0
Trott Brook @ 181st Ave	7.70	7.68	4	0	0
Trott Brook @ Ermine Blvd.	7.73	7.76	4	0	0
Trott Brook @ Armstrong Blvd	7.80	7.79	4	0	0
Trott Brook @ Variolite St	7.64	7.67	4	0	0
Trott Brook @ Nowthen Blvd	7.66	7.64	4	0	0
Trott Brook @ Hwy 47	7.77	7.79	4	0	0

pH - Historical Baseflow Data

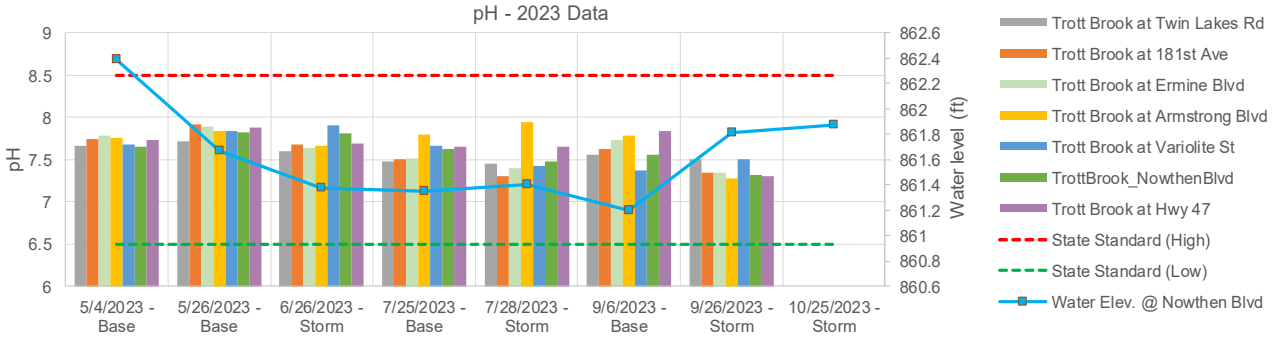
	AVG	MED	TOTAL #	< 6.5	> 8.5
Trott Brook @ Nowthen Blvd	7.76	7.72	19	0	0

pH - 2023 Stormflow Data

	AVG	MED	TOTAL #	< 6.5	> 8.5
Trott Brook @ Twin Lakes Rd	8.04	7.55	4	0	1
Trott Brook @ 181st Ave	8.24	7.51	4	0	1
Trott Brook @ Ermine Blvd.	8.25	7.52	4	0	1
Trott Brook @ Armstrong Blvd	8.51	7.80	4	0	1
Trott Brook @ Variolite St	8.57	7.70	4	0	1
Trott Brook @ Nowthen Blvd	8.53	7.65	4	0	1
Trott Brook @ Hwy 47	8.56	7.67	4	0	1

pH - Historical Stormflow Data

	AVG	MED	TOTAL #	< 6.5	> 8.5
Trott Brook @ Nowthen Blvd	7.49	7.48	17	1	0



Dissolved Oxygen

The primary purpose of the 2023 Trott Brook study was to diagnose the nature and locations of the low oxygen impairment of the Trott Brook system. ACD has periodically monitored Trott Brook over the years, but never in-depth, at multiple locations in one year. Trott Brook meanders through differing ecological sections – from peaty wetlands to developing neighborhoods – and historical data at one location wasn't enough to assess the extent of declining dissolved oxygen in Trott Brook. 2023 monitoring aimed to determine causes of impairment and identify projects to improve it.

Dissolved oxygen is necessary for aquatic life, including fish. Organic pollution causes oxygen to be consumed during decomposition. If oxygen levels in water fall below 5 mg/L, aquatic life begins to suffer. A stream is considered impaired if 10% of observations are below 5 mg/L in the last 10 years. Dissolved oxygen levels are typically lowest in the early morning because of decomposition consuming oxygen at night without the offsetting of oxygen production by photosynthesis.

For 2023 monitoring, all grab samples were taken in the early morning (starting prior to 8:00AM) to measure oxygen concentrations at their lowest levels of the day. Additionally, samples were taken as close as possible to simultaneously. Finally, sondes were deployed for one week at 4 of the sites that took measurements hourly.

In 2023, grab measurements of dissolved oxygen (DO) occasionally fell below 5 mg/L; five occasions during baseflow and two occasions post-storm. The average and median data collected at each site is shown below. The average DO for all Trott Brook sites was 6.7 mg/L during baseflow and the same post-storm. The median of all Trott Brook sites was 7.3 mg/L during baseflow and 6.8 mg/L post-storm. DO measurements below the state standard were most common at Twin Lakes Road and Variolite Street.

DO - 2023 Baseflow Data

	AVG	MED	TOTAL #	< 5 mg/L
Trott Brook @ Twin Lakes Rd	5.5	5.6	4	2
Trott Brook @ 181st Ave	6.2	6.4	4	1
Trott Brook @ Ermine Blvd.	7.3	7.4	4	0
Trott Brook @ Armstrong Blvd	7.9	8.3	4	0
Trott Brook @ Variolite St	6.0	6.5	4	1
Trott Brook @ Nowthen Blvd	7.2	7.4	4	0
Trott Brook @ Hwy 47	6.8	7.2	4	1

DO - 2023 Stormflow Data

	AVG	MED	TOTAL #	< 5 mg/L
Trott Brook @ Twin Lakes Rd	5.6	5.7	4	1
Trott Brook @ 181st Ave	6.2	5.8	4	0
Trott Brook @ Ermine Blvd.	7.1	6.8	4	0
Trott Brook @ Armstrong Blvd	7.8	8.2	4	0
Trott Brook @ Variolite St	6.3	6.8	4	1
Trott Brook @ Nowthen Blvd	6.7	7.1	4	0
Trott Brook @ Hwy 47	7.1	6.7	4	0

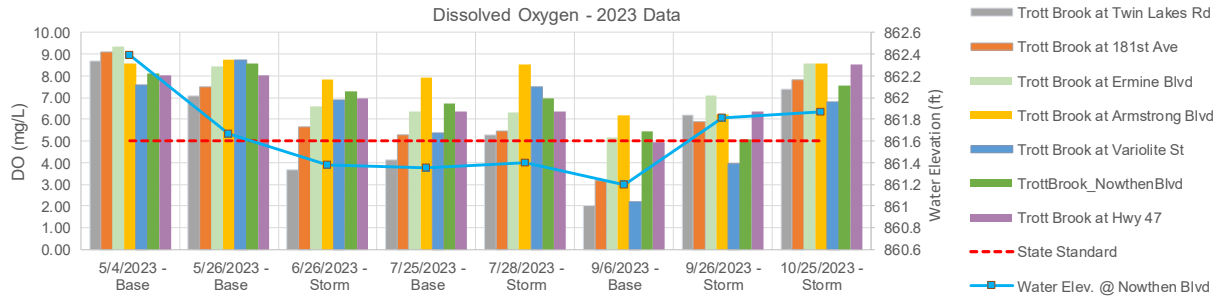
DO - Historical Baseflow Data

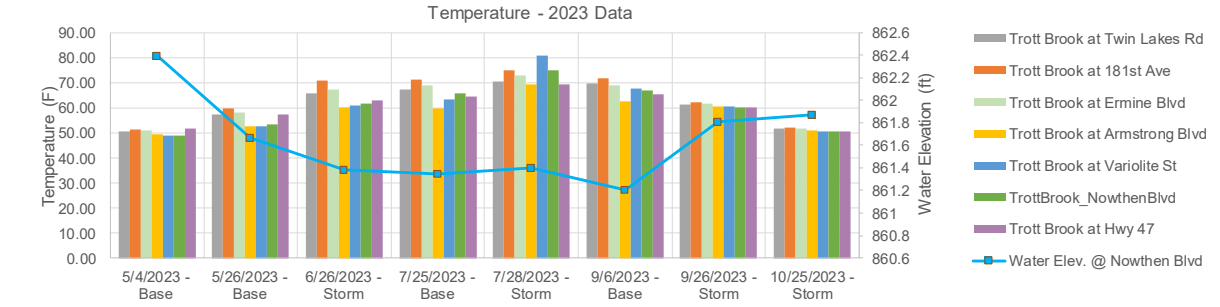
	AVG	MED	TOTAL #	< 5 mg/L
Trott Brook @ Nowthen Blvd	7.1	6.9	16	0

DO - Historical Stormflow Data

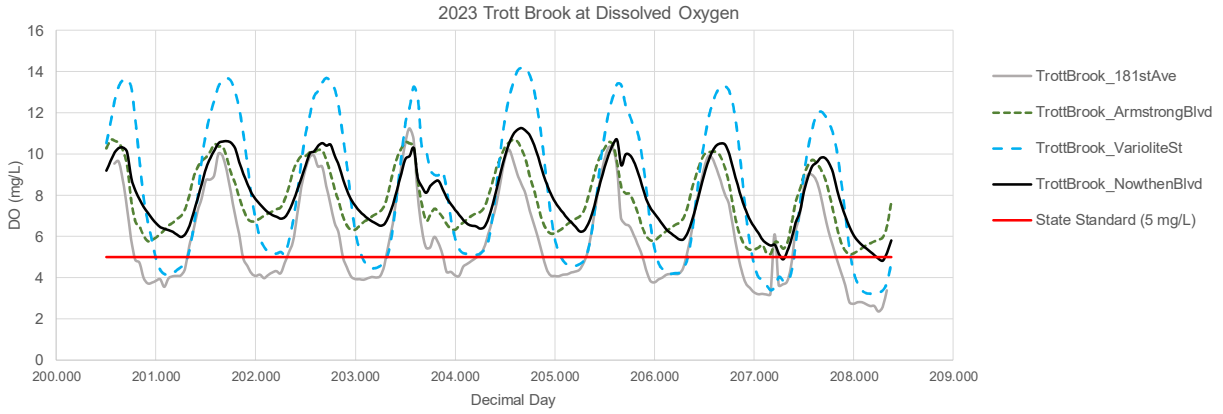
	AVG	MED	TOTAL #	< 5 mg/L
Trott Brook @ Nowthen Blvd	6.3	7.0	16	4

On most dates it appears that oxygen increases from upstream to downstream, at least for the first four sites. The sites were sampled in this order. It would be expected that those sampled first (earliest in the morning) would have lower oxygen, and increased oxygen production from photosynthesis as the morning progressed could be responsible for the apparent trend. There is a noticeable trend between decreasing dissolved oxygen levels and increasing water temperature. This is expected as dissolved oxygen levels are known to have an inverse relationship with temperature; warm water can hold less oxygen. Temperatures remained fairly consistent between sites on a given sample day, suggesting major springs or other inflows are either uncommon or uniformly common in all areas.

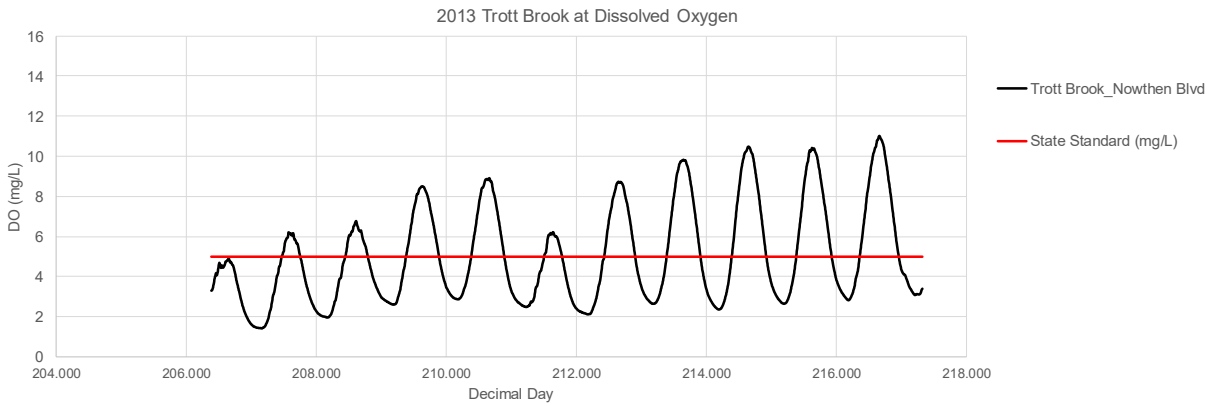




During 2023, deployable sondes were placed in four Trott Brook locations to take dissolved oxygen measurements hourly. The deployable sondes found occasionally low oxygen at each site, but conditions varied (see graph below). Oxygen levels do fall below the state standard of 5 mg/L on a daily basis at some sites, but not at others. There is no upstream to downstream trend, and the sites with the lowest observed oxygen were not adjacent. This suggests multiple, diffuse impacts across the watershed that are causing low oxygen.



A sonde was also placed in the stream in 2013, and the results were different (graph below). That sonde was placed at Nowthen Blvd by the MPCA. Lower oxygen was observed and a greater range. That data was considered when listing the stream as impaired.



The low dissolved oxygen levels are likely the result of decomposition in adjacent wetlands. Trott Brook flows through large wetland throughout its length, and in many sections the stream is straightened through these wetlands. The water has a lot of contact with decaying organic matter which can strip the water of oxygen. As a result, identifying projects for the purpose of addressing the low oxygen impairment is difficult, and the scope of any such projects would need to be large. Some ideas to consider and further evaluate include:

- Increasing Riparian Shading. There is an inverse relationship between temperature and dissolved oxygen levels. Increasing riparian shading should reduce instream temperatures and will likely increase dissolved oxygen levels throughout Trott Brook. It may also increase riparian and in-stream habitat.

- Stream Aeration Projects. In-stream structures such as riffles and pools throughout Trott Brook could increase stream aeration. A challenge for this project type is flat topography.

- Best Management Practices for New Development. There are several areas of new development along Trott Brook. Ensuring robust stormwater retention / treatment for any new development will help prevent Trott Brook from potential worsening conditions and may inherently address low dissolved oxygen levels.

Total Phosphorus

Total phosphorus (TP) is a nutrient that is most limiting for algae growth and other production. High phosphorus can result in a large range of oxygen levels (high daytime oxygen, high decomposition). In 2023, average TP concentrations at the Trott Brook sites occasionally exceed the state standard (100 µg/L), but was usually lower. Phosphorous levels during stormflow is higher than baseflow, which is expected. For example, the average TP across all years monitored in Trott Brook at Nowthen Blvd is 95.7 µg/L during baseflow conditions and 135.0 µg/L post-storm. Of the 36 samples taken across all years at Nowthen Blvd, there have been 16 occurrences of the state standard being exceeded, the majority during post-storm conditions.

In 2023, average TP at all sites ranged from 60.0 µg/L to 116.8 µg/L during baseflow conditions, and 93.3 µg/L to 126.8 µg/L post-storm. This data does not suggest that high phosphorus in the water is problematic, or a driver of the low oxygen impairment.

TP - 2023 Baseflow Data

	AVG	MED	TOTAL #	> 100 ug/L
Trott Brook @ Twin Lakes Rd	103.3	78.0	4	1
Trott Brook @ 181st Ave	60.0	63.0	4	0
Trott Brook @ Ermine Blvd.	87.3	90.5	4	1
Trott Brook @ Armstrong Blvd	70.8	74.5	4	0
Trott Brook @ Variolite St	116.8	80.5	4	1
Trott Brook @ Nowthen Blvd	68.3	77.0	4	0
Trott Brook @ Hwy 47	87.0	97.5	4	2

TP - 2023 Stormflow Data

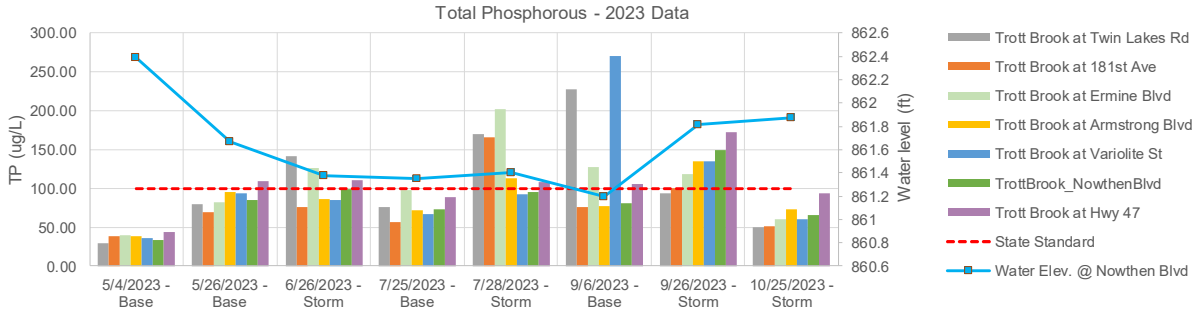
	AVG	MED	TOTAL #	> 100 ug/L
Trott Brook @ Twin Lakes Rd	113.8	117.5	4	2
Trott Brook @ 181st Ave	98.5	88.0	4	1
Trott Brook @ Ermine Blvd.	126.8	122.5	4	3
Trott Brook @ Armstrong Blvd	101.8	99.5	4	2
Trott Brook @ Variolite St	93.3	89.0	4	1
Trott Brook @ Nowthen Blvd	102.0	97.0	4	1
Trott Brook @ Hwy 47	121.5	109.5	4	3

TP - Historical Baseflow Data

	AVG	MED	TOTAL #	> 100 ug/L
Trott Brook @ Nowthen Blvd	95.7	80.5	18	5

TP - Historical Stormflow Data

	AVG	MED	TOTAL #	> 100 ug/L
Trott Brook @ Nowthen Blvd	135.0	115.0	18	11



Turbidity

Turbidity is a measurement of solid material suspended in the water. Suspended material in water affects water transparency, aquatic life, and because many other pollutants are attached to sediment particles. Suspended solids in the waterway can come from both internal and external sources. External sources can include a variety of particles in stormwater runoff. Internally, bank erosion and movement of the bottom substrate contribute to suspended sediments. Average 2023 turbidity measurements for each Trott Brook site are shown below. In all conditions, turbidity was low. Generally, turbidity was higher during baseflow than during stormflow conditions, which is atypical. It may be that in-stream sources are largest and diluted by storm inflows. There is no clear trend of changing turbidity from upstream to downstream. Turbidity decreased as water levels decreased; Anoka County was in a state of drought for a large portion of 2023. With little additional surface overflow runoff, Trott Brook remained relatively clear during this time period.

While high turbidity in Trott Brook is not a concern at this time, rigorous stormwater treatment in new developments should be a priority in the coming years. There are also opportunities to better treat current runoff from developed and agricultural landscapes.

Turbidity - 2023 Baseflow Data

	AVG	MED	TOTAL #
Trott Brook @ Twin Lakes Rd	3.5	3.5	4
Trott Brook @ 181st Ave	4.8	4.9	4
Trott Brook @ Ermine Blvd.	2.6	2.5	4
Trott Brook @ Armstrong Blvd	4.5	2.2	4
Trott Brook @ Variolite St	4.0	1.4	4
Trott Brook @ Nowthen Blvd	3.0	1.7	4
Trott Brook @ Hwy 47	6.0	5.4	4

Turbidity - Historical Baseflow Data

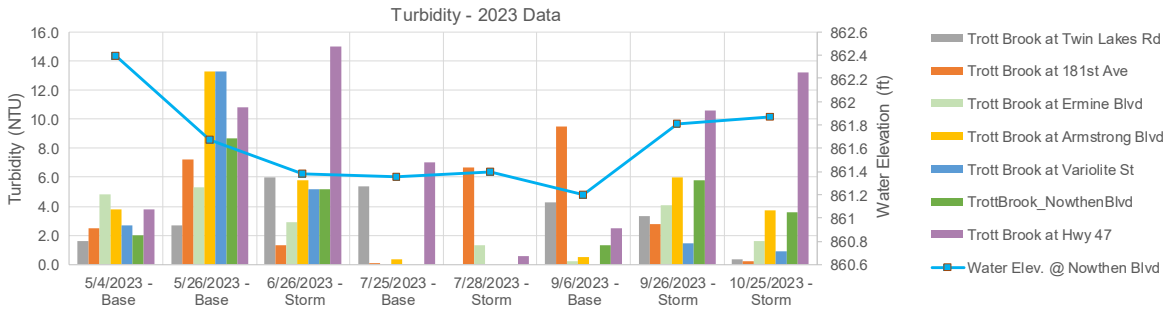
	AVG	MED	TOTAL #
Trott Brook @ Nowthen Blvd	2.3	1.7	18

Turbidity - 2023 Stormflow Data

	AVG	MED	TOTAL #
Trott Brook @ Twin Lakes Rd	2.4	1.9	4
Trott Brook @ 181st Ave	2.8	2.1	4
Trott Brook @ Ermine Blvd.	2.5	2.3	4
Trott Brook @ Armstrong Blvd	3.9	4.8	4
Trott Brook @ Variolite St	1.9	1.2	4
Trott Brook @ Nowthen Blvd	3.7	4.4	4
Trott Brook @ Hwy 47	9.9	11.9	4

Turbidity - Historical Stormflow Data

	AVG	MED	TOTAL #
Trott Brook @ Nowthen Blvd	7.7	5.5	18



Stream Water Quality Monitoring

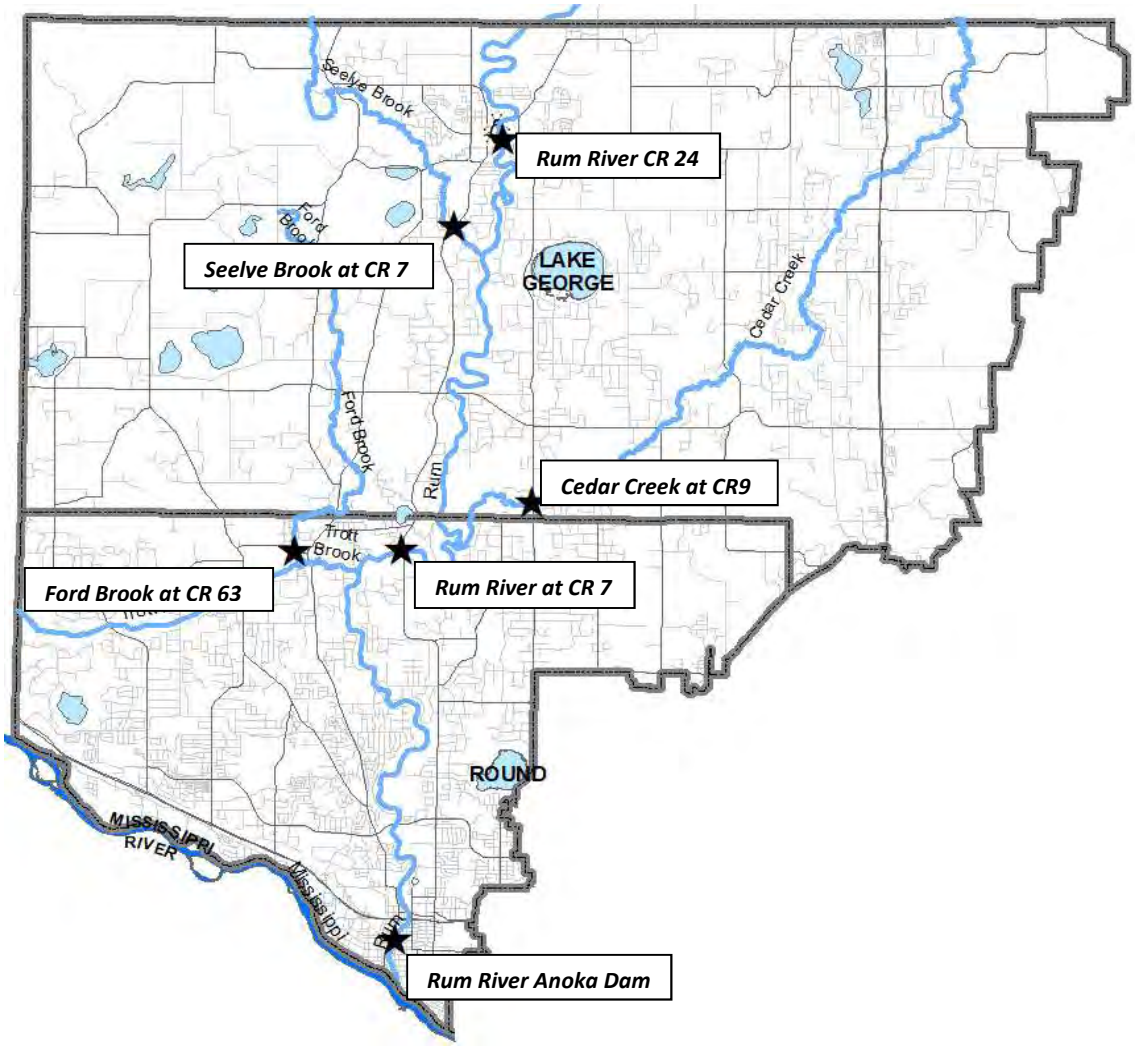
Partners: ACD, LRRWMO, and URRWMO

Locations: Rum River at C.R. 24, Seeyle Brook at C.R. 7, Cedar Creek at C.R. 9, Rum River at C.R. 7, and Ford Brook at C.R. 63.

Description: Water quality monitoring was conducted four times between May – September, two times following storm events and two times during baseflow conditions. The monitoring parameters includes total phosphorus, total suspended solids, dissolved oxygen, turbidity, temperature, specific conductance, transparency, pH, and salinity.

Results: In this chapter, summary results are presented for the Rum River and certain larger tributaries. Users may wish to additionally review data from the Metropolitan Council for the Rum River at the Anoka Dam.

2023 Rum River Monitoring Sites



Rum River & Tributaries Water Quality

Rum River at Co. Rd. 24 (Bridge St), St. Francis	STORET Site ID = S000-066
Seelye Brook at Co. Rd. 7, St. Francis	STORET Site ID = S003-204
Cedar Creek at Hwy 9, Oak Grove	STORET Site ID = S003-203
Rum River at Co. Rd. 7 (Roanoke St), Ramsey	STORET Site ID = S004-026
Ford Brook at Co. Rd 63, Ramsey	STORET Site ID = S003-200
Rum River at Anoka Dam, Anoka	STORET Site ID = S003-183

Background

The Rum River is one of Anoka County's most valued water resources. The river is designated as a state "scenic and recreational" river until it reaches southern Anoka County and is used extensively for all types of recreation. A large portion of western Anoka County drains to the Rum River including the subwatersheds of Seelye Brook, Trott Brook, Ford Brook, and Cedar Creek.

The Rum River and tributaries have been monitored simultaneously in multiple years (2004, 2009-2011, 2014-2019, 2022, & 2023). The objective of this data is to help determine how water quality changes in the Rum River system as it moves through Anoka County and where these changes might be occurring. The data is reported for all sites, side-by-side, for a more comprehensive analysis of water quality in the Rum River, upstream to downstream. Land use surrounding the river changes dramatically from rural residential in the upstream portions of Anoka County to suburban and urbanized in the downstream areas. Sites included:

Rum River at C.R. 24 is located in northern Anoka County, the City of St. Francis with the Isanti County border just upstream. This location is the best available site to monitor the upstream extent of the Upper Rum River Watershed Management Organization and Anoka County.

Cedar Creek at C.R. 9 is a tributary originating in south central Isanti County, flowing southwest before entering the Rum River. Cedar Creek flows through north central Anoka County, progressing through lands with high-quality natural communities, including the Cedar Creek Ecosystem Science Reserve. Habitat in the lower stretches of the stream are of moderate quality with little development, but the stream is listed as an impaired water for excessive *E. coli* bacteria. Cedar Creek is one of the larger streams in Anoka County, reaching 25-feet wide and regularly having depths greater than 2-feet during baseflow conditions. The stream bottom is primarily silt. The watershed is moderately developed with scattered single-family homes but the area continues to develop rapidly.

Seelye Brook at Hwy 7 is a tributary originating in southwestern Isanti County, flowing south through northwestern Anoka County before entering the Rum River. This stream is low gradient, like most other local streams. Seelye Brook has a silty or sandy bottom and lacks riffle-pool sequences. It is a moderate to large stream for Anoka County, with a typical baseflow width of 20-25 feet.

Rum River at Hwy 7 is an approximate mid-way point for the Rum River in Anoka County. It is at the approximately dividing line of the Upper and Lower Watershed Management Organizations.

Ford Brook at C.R. 63 is a tributary originating from a chain of lakes in northwestern Anoka County – Goose, Pinaker, and Eckstrom. The stream flows south until merging with Trott Brook just before entering the Rum River. The stream was identified in local watershed plans as a priority waterbody due to elevated nutrient loads that ultimately deliver to the Rum River.

Rum River at Anoka Dam represents the downstream extent of the Rum River in Anoka County before joining the Mississippi River. While the Rum River technically extends farther downstream, monitoring occurs at this location to avoid backwater influences of the Mississippi River. This site is monitored by the Metropolitan Council (Met Council), and annual monitoring has occurred back to 1996.

Results Summary

This report includes data from 2023 and an overview of historical data. All sites were monitored by ACD staff, except for the Rum River at the Anoka Dam which was monitored by the Metropolitan Council following a different schedule and sampling protocol. Metropolitan Council data is still included in this report for comparison purposes.

The following is a summary of results:

- Dissolved constituents were measured by specific conductivity and chlorides. Specific conductivity in the Rum River is lower than other Anoka County streams and within the healthy range. Chlorides are a regional concern and proactive measures to ensure it does not become elevated in the Rum River watershed is recommended. Periodic monitoring every 2-5 years is recommended.
- pH was within a healthy range (6.5-8.5) at all monitoring sites in in 2023 except for two occasions, which are suspected to be the result of a faulty pH sensor.
- Dissolved oxygen remained above the state standard of 5 mg/L except for one occasion at Ford Brook at C.R. 63.
- Phosphorus levels in the Rum River in recent years have regularly exceeded the state standard of 100 µg/L at all sampled sites, but averaged slightly lower than this threshold. In 2023, total phosphorus in the Rum River averaged 67 µg/L (C.R. 24) and 70.75 µg/L (C.R. 7) at sampled sites from upstream to downstream. Reducing phosphorus levels in the Rum River is a regional priority.
- Suspended solids and turbidity remained at acceptable levels in the Rum River, Cedar Creek, Seelye Brook, and Ford Brook. Robust stormwater treatment within new developments and continued surveillance monitoring is recommended.
- Overall – The priority for the Rum River is reducing phosphorus. A 5% reduction is a top goal identified in local and regional plans. Achieving it will require work throughout the watershed, including upstream of Anoka County.

The intention of this report is to provide a comparison of water quality in the Rum River as it moves upstream to downstream. This report only includes parameters that were tested in 2023 and does not include any additional parameters tested by the Met Council or any of their additional sampling. For more detailed information, see Met Council reports at https://eims.metc.state.mn.us/. All raw data can be obtained from ACD's online database (https://maps.barr.com/Anoka/Home/Chart/), and is also available through the MPCA's EQuIS database, (https://www.pca.state.mn.us/data/environmental-qualityinformation-system-equis).

The data is presented and discussed for each parameter in greater detail below. Management recommendations for each parameter is included in individual sections.

Specific Conductivity and Chlorides

Dissolved pollutant sources include urban road runoff, salt, and agricultural or industrial chemicals, among many others. Conductivity is a broad measure of dissolved pollutants. High conductivity often requires additional monitoring work to determine the cause. Chlorides measures certain salts, such as those used for road deicing or in water softeners, that are frequent causes of high conductivity. The State deems a stream or river "impaired" when chloride measurements regularly exceed 230 mg/L.

Specific conductivity was acceptably low in the Rum River in 2023. Specific conductivity at the Rum River sites was similar, and in nearly all years monitored it increases slightly from upstream to downstream. Average specific conductivity from upstream to downstream in 2023 (in all conditions) was 0.353 mS/cm (C.R. 24), 0.388 mS/cm (C.R. 7), and 0.394 mS/cm (Anoka Dam), respectively. This consistent trend of increasing conductivity from upstream to downstream likely reflects higher road densities and greater deicing efforts with salt application, as well as other pollutant sources associated with increased development.

In 2023, specific conductivity in the Rum River was higher during baseflow conditions than during stormflows. This is a trend observed in previous years, and it provides some insight into the pollutant sources. If dissolved pollutants were only elevated after storms, stormwater runoff would be suspected as the primary driver. However, because dissolved pollutants are highest during baseflow conditions, the suspected primary source is pollution of the shallow groundwater, which normally feeds the river during baseflow. The largest source of pollution is believed to be road salts that have infiltrated into the shallow aquifer. Water softening salts and geologic materials can also be pollution contributors.

Specific conductivity in the tributary streams – Seeyle Brook, Ford Brook, and Cedar Creek – was usually higher during stormflow conditions, but average values of baseflow and stormflow conditions were similar. Average specific conductivity in 2023 (in all conditions) was 0.545 mS/cm (Seeyle Brook at C.R. 7), 0.609 mS/cm (Ford Brook at C.R. 63), and 0.433 mS/cm (Cedar Creek at C.R. 9). These values are higher than the average conductivity reported in the Rum River.

Specific Conductivity - 2023 Baseflow Data

	AVG	MED	TOTAL #
Rum River @ CR 24	0.383	0.383	2
Seelye Brook @ CR 7	0.544	0.544	2
Cedar Creek @ CR 9	0.443	0.443	2
Rum River @ CR 7	0.403	0.406	4
Ford Brook @ CR 63	0.602	0.602	2
Rum River @ Anoka Dam	0.415	0.415	4

Specific Conductivity - 2023 Stormflow Data

	AVG	MED	TOTAL #
Rum River @ CR 24	0.323	0.323	2
Seelye Brook @ CR 7	0.546	0.546	2
Cedar Creek @ CR 9	0.423	0.423	2
Rum River @ CR 7	0.373	0.369	4
Ford Brook @ CR 63	0.616	0.616	2
Rum River @ Anoka Dam	0.372	0.372	4

Specific Conductivity - Historical Baseflow Data

	AVG	MED	TOTAL #
Rum River @ CR 24	0.269	0.273	40
Seelye Brook @ CR 7	0.424	0.425	36
Cedar Creek @ CR 9	0.395	0.399	40
Rum River @ CR 7	0.289	0.283	46
Ford Brook @ CR 63	0.460	0.481	29
Rum River @ Anoka Dam	0.329	0.309	35

Specific Conductivity - Historical Stormflow Data

	AVG	MED	TOTAL #
Rum River @ CR 24	0.259	0.260	35
Seelye Brook @ CR 7	0.392	0.382	25
Cedar Creek @ CR 9	0.361	0.365	29
Rum River @ CR 7	0.286	0.298	48
Ford Brook @ CR 63	0.444	0.416	31
Rum River @ Anoka Dam	0.324	0.315	37

In 2023, chlorides were monitored in the Rum River at C.R. 7 (on 4 of 8 sampling occasions) and in the Rum River at the Anoka Dam. Chloride results ranged from 17.3 mg/L to 29.7 mg/L, far below the state's chronic standard for aquatic life (230 mg/L). Sampling did not occur during snowmelt, when chloride is likely to be at its highest.

Chloride - 2023 Baseflow Data

	AVG	MED	TOTAL
Rum River @ CR 7	22.7	22.7	2
Rum River @ Anoka Dam	27.1	27.2	4

Chloride - 2023 Stormflow Data

	AVG	MED	TOTAL
Rum River @ CR 7	17.8	17.8	2
Rum River @ Anoka Dam	24.9	24.9	4

Chloride - Historical Baseflow Data

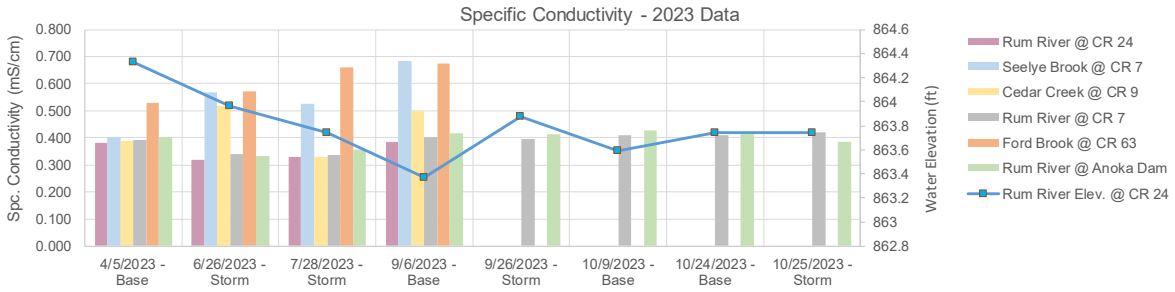
	AVG	MED	TOTAL
Rum River @ CR 24	11.5	10.9	17
Rum River @ CR 7	13.2	12.3	28
Rum River @ Anoka Dam	17.4	15.5	16

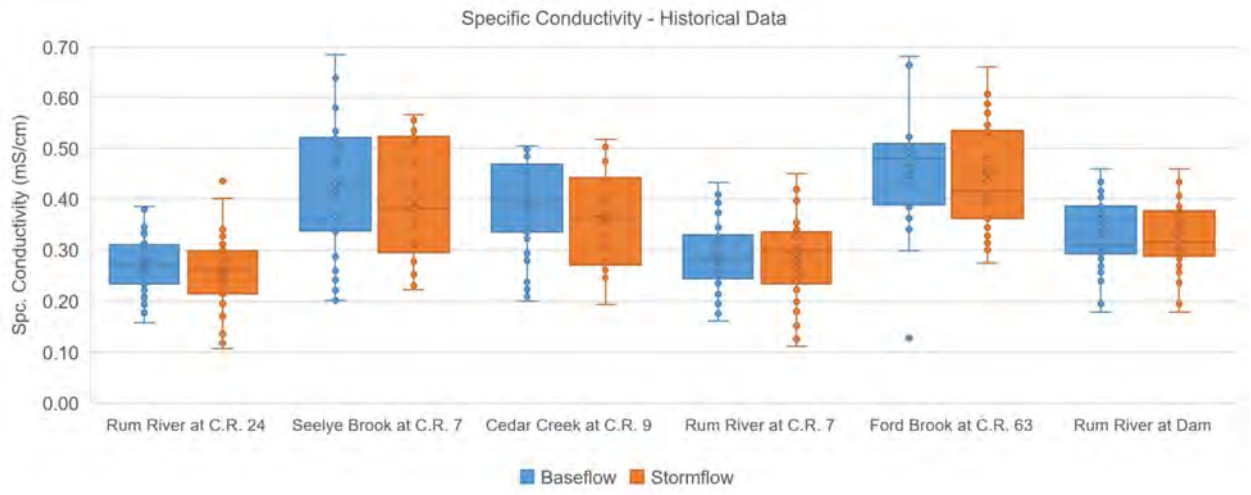
Chloride - Historical Stormflow Data

	AVG	MED	TOTAL
Rum River @ CR 24	10.6	10.8	16
Rum River @ CR 7	12.9	12.5	29
Rum River @ Anoka Dam	14.3	13.0	21

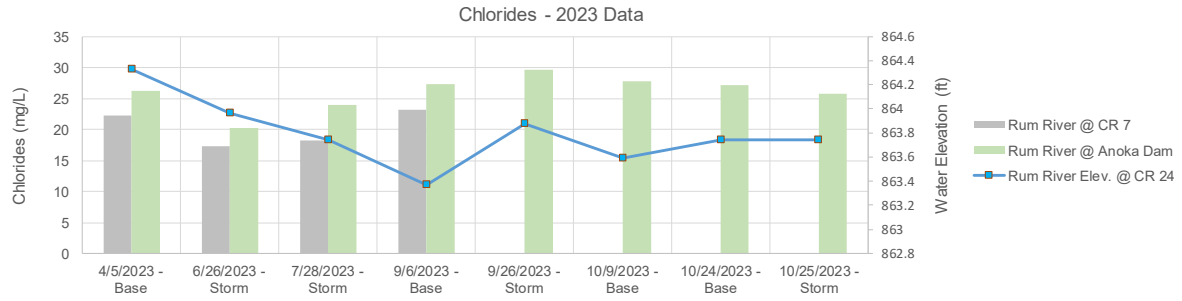
For water resource management, it is important to note that the sources of dissolved pollutants are generally the same for both stormwater and baseflow it is only the timing of delivery to the waterway that is different. Preventing the release of dissolved pollutants into the environment and treating them before infiltration occurs should be a high priority. Training and equipment that minimize road salting while still maintaining safe roads safe is being increasingly emphasized by watershed managers. The MPCA now provides a training program where organizations and employees to obtain a smart-salting certification, which then has to be renewed every few years.

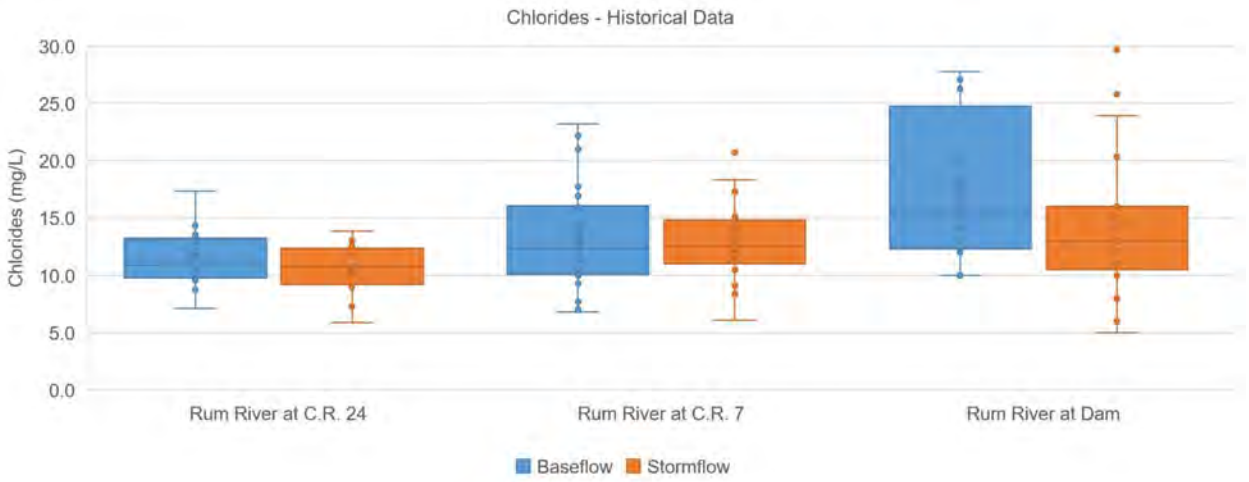
Specific Conductivity during Baseflow and Storm Conditions. Box plots show the median (middle line), 25th and 75th percentile (ends of box), and 10th and 90th percentiles (floating outer lines). Historical boxplot data also includes this year's data.





Chlorides during Baseflow and Storm Conditions. Box plots show the median (middle line), 25th and 75th percentile (ends of box), and 10th and 90th percentiles (floating outer lines). Historical boxplot data also includes this year's data.





pH

pH refers to the acidity of the water. The state standard range for pH is between 6.5 - 8.5, and pH is generally lower during storm events than during baseflow conditions because the pH of rain is typically lower (more acidic). While acid rain is a longstanding problem, its effect on this aquatic system is minimal. The rare occasions when pH is below or exceeds the state standard should not be concerning. No sampling occasions were below or exceeded the state standard range during 2023 at any of the monitoring sites.

Rum River. In 2023, the average pH in the Rum River was 7.93 during baseflow conditions and 7.78 post-storm. Historically, the Rum River exceeded the state standard on eleven occasions, and has been below the state standard on only two occasions.

Cedar Creek. In 2023, the average pH in Cedar Creek was 7.72 during baseflow conditions and 7.65 post-storm. Historically, Cedar Creek has exceeded the state standard on five occasions.

Seelye Brook. In 2023, the average pH in Seelye Brook was 7.85 during baseflow conditions and 7.41 post-storm. Historically, Seelye Brook has exceeded the state standard on five occasions.

Ford Brook. In 2023, the average pH in Ford Brook was 7.59 during baseflow conditions and 7.54 post-storm. Historically, Ford Brook has exceeded the state standard on three sampling occasions, and has been below the state standard on only two occasions.

pH - 2023 Baseflow Data

	AVG	MED	TOTAL #	< 6.5	> 8.5
Rum River @ CR 24	7.85	7.85	2	0	0
Seelye Brook @ CR 7	7.85	7.85	2	0	0
Cedar Creek @ CR 9	7.72	7.72	2	0	0
Rum River @ CR 7	7.93	7.86	3	0	0
Ford Brook @ CR 63	7.59	7.59	2	0	0
Rum River @ Anoka Dam	8.00	7.98	4	0	0

pH - Historical Baseflow Data

	AVG	MED	TOTAL #	< 6.5	> 8.5
Rum River @ CR 24	7.89	7.82	38	0	1
Seelye Brook @ CR 7	7.95	7.92	36	0	3
Cedar Creek @ CR 9	8.05	8.03	40	0	3
Rum River @ CR 7	7.92	7.89	44	0	1
Ford Brook @ CR 63	7.75	7.74	29	1	0
Rum River @ Anoka Dam	8.02	8.00	35	0	2

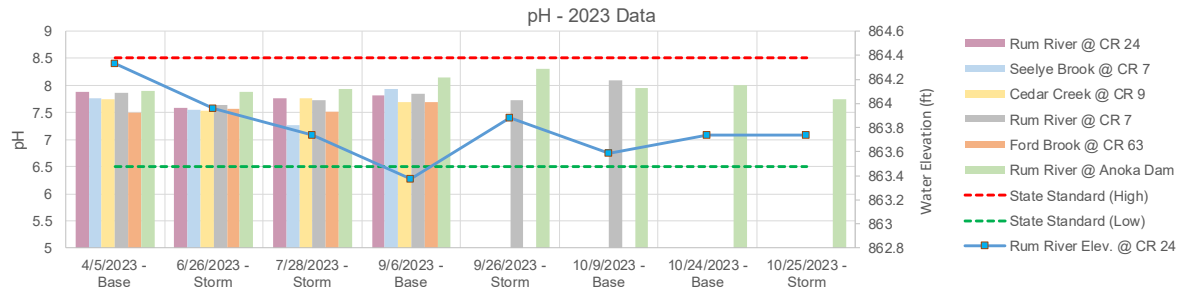
pH - 2023 Stormflow Data

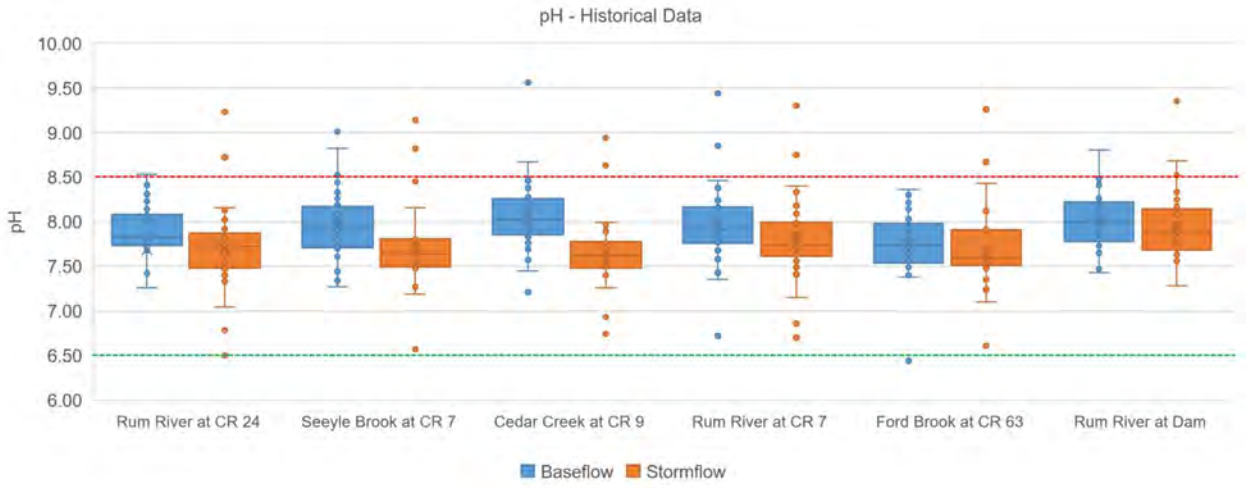
	AVG	MED	TOTAL #	< 6.5	> 8.5
Rum River @ CR 24	7.68	7.68	2	0	0
Seelye Brook @ CR 7	7.41	7.41	2	0	0
Cedar Creek @ CR 9	7.65	7.65	2	0	0
Rum River @ CR 7	7.69	7.72	3	0	0
Ford Brook @ CR 63	7.54	7.54	2	0	0
Rum River @ Anoka Dam	7.97	7.91	4	0	0

pH - Historical Stormflow Data

	AVG	MED	TOTAL #	< 6.5	> 8.5
Rum River @ CR 24	7.71	7.73	34	0	2
Seelye Brook @ CR 7	7.71	7.64	25	0	2
Cedar Creek @ CR 9	7.67	7.62	29	0	2
Rum River @ CR 7	7.76	7.73	46	0	2
Ford Brook @ CR 63	7.64	7.59	31	1	3
Rum River @ Anoka Dam	7.95	7.87	36	0	3

pH during Baseflow and Storm Conditions. Box plots show the median (middle line), 25th and 75th percentile (ends of box), and 10th and 90th percentiles (floating outer lines). Historical boxplot data also includes this year's data.





Dissolved Oxygen

Dissolved oxygen is necessary for aquatic life to survive and thrive. Organic pollution causes oxygen to be consumed during decomposition. If oxygen levels in water fall below 5 mg/L, aquatic life begins to suffer. A stream is considered impaired if 10% of observations are below 5 mg/L in the last 10-years. Dissolved oxygen levels are typically lowest in the early morning because of decomposition consuming oxygen at night without the offsetting of oxygen production by photosynthesis.

Rum River. In 2023, all measurements of dissolved oxygen in the Rum River were above 5 mg/L. Dissolved oxygen has never been observed below this state standard at any of the Rum River sites. Only on a handful of occasions has dissolved oxygen been recorded below 6.0 mg/L and many of these results were recorded during the same storm event. In 2023, the lowest observation was 6.0 mg/L during baseflow conditions.

Cedar Creek. In 2023, all measurements of dissolved oxygen in Cedar Creek were above 5 mg/L. The lowest observation this year was 6.0 mg/L post-storm. Historically, dissolved oxygen has been observed below the state standard in Cedar Creek on five occasions, the majority of which were observed post-storm.

Seelye Brook. In 2023, all measurements of dissolved oxygen in Seelye Brook were above 5 mg/L. The lowest observation this year was 6.78 mg/L post-storm. Historically, dissolved oxygen has been observed below the state standard in Seelye Brook on four occasions, equally distributed between baseflow conditions and post-storm conditions.

Ford Brook. In 2023, one measurement of dissolved oxygen in Ford Brook fell below the state of 5 mg/L. This measurement was recorded at 4.56 mg/L during baseflow conditions. Historically, dissolved oxygen has been observed below the state standard in Seelye Brook on two occasions (including 2023), equally distributed between baseflow conditions and post-storm conditions.

Only a few observations of dissolved oxygen below 5 mg/L have been observed in all monitored years. As such, there is no management concern at this time. A common driver of lower oxygen is higher nutrients, so nutrient reduction efforts will have a secondary benefit of preventing low oxygen.

DO - 2023 Baseflow Data

	AVG	MED	TOTAL #	< 5 mg/L
Rum River @ CR 24	9.06	9.06	2	0
Seelye Brook @ CR 7	8.22	8.22	2	0
Cedar Creek @ CR 9	8.63	8.63	2	0
Rum River @ CR 7	9.35	9.95	4	0
Ford Brook @ CR 63	7.08	7.08	2	1
Rum River @ Anoka Dam	10.44	10.55	4	0

DO - 2023 Stormflow Data

	AVG	MED	TOTAL #	< 5 mg/L	< 5 mg/L
Rum River @ CR 24	8.99	8.99	2	0	
Seelye Brook @ CR 7	7.72	7.72	2	0	
Cedar Creek @ CR 9	7.37	7.37	2	0	
Rum River @ CR 7	8.46	8.68	4	0	
Ford Brook @ CR 63	7.45	7.45	2	0	
Rum River @ Anoka Dam	9.55	8.87	4	0	

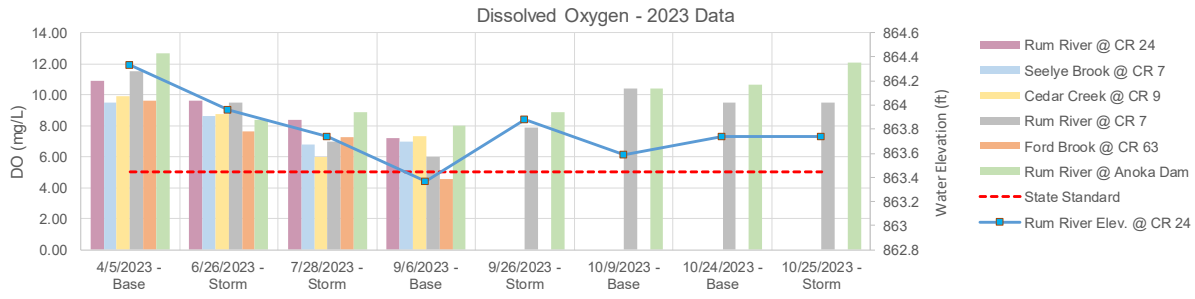
DO - Historical Baseflow Data

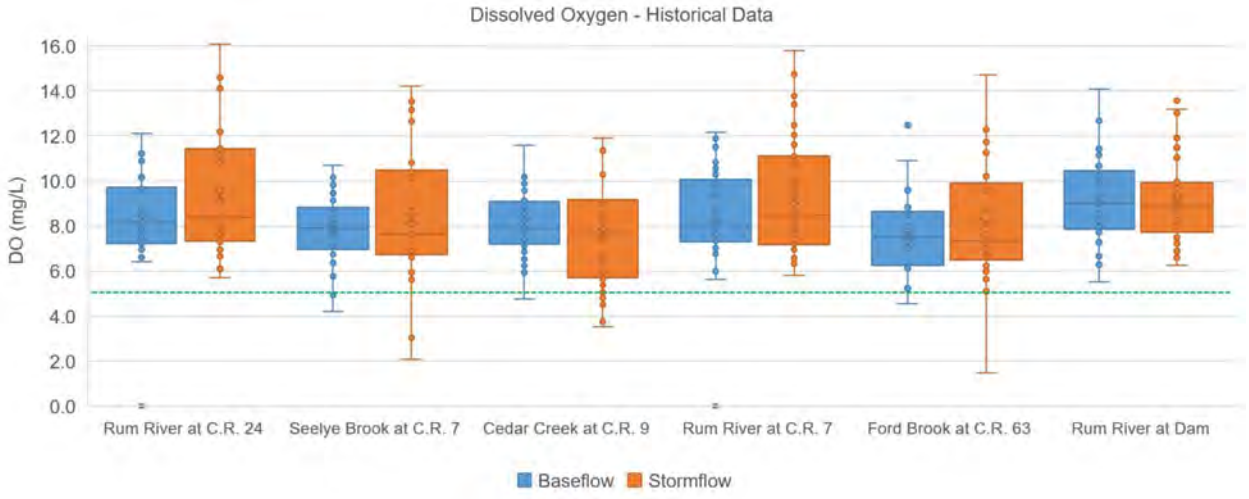
	AVG	MED	TOTAL #	< 5 mg/L
Rum River @ CR 24	8.52	8.21	38	0
Seelye Brook @ CR 7	7.88	7.91	36	2
Cedar Creek @ CR 9	8.09	7.92	40	1
Rum River @ CR 7	8.62	8.11	44	0
Ford Brook @ CR 63	7.61	7.51	26	1
Rum River @ Anoka Dam	9.21	9.03	39	0

DO - Historical Stormflow Data

	AVG	MED	TOTAL #	< 5 mg/L
Rum River @ CR 24	9.34	8.38	33	0
Seelye Brook @ CR 7	8.36	7.66	25	2
Cedar Creek @ CR 9	7.66	7.68	28	4
Rum River @ CR 7	9.19	8.50	46	0
Ford Brook @ CR 63	8.10	7.33	29	1
Rum River @ Anoka Dam	9.13	8.87	40	0

Dissolved Oxygen during Baseflow and Storm Conditions. Box plots show the median (middle line), 25th and 75th percentile (ends of box), and 10th and 90th percentiles (floating outer lines). Historical boxplot data also includes this year's data.





Total Phosphorus

The nutrient phosphorus (TP) is one of the most common pollutants to local waterways, and can be associated with stormwater runoff, wastewater, fertilizers, soil loss, and many other sources. Since it is an essential nutrient in the natural ecosystem, even a slight increase of phosphorus levels in a waterway can result in harmful algae blooms, accelerated plant growth, low dissolved oxygen levels and other negative effects to fish, macroinvertebrates, and other aquatic animals.

The State deems a stream or river "impaired" in the central region of Minnesota when TP measurements exceed 100 µg/L and a second condition is met. The second condition is chlorophyll-a >18 µg/L, diel dissolved oxygen flux of 3.5 mg/L or periphyton chlorophyll-a >150 mg/m^2.

Rum River. In 2023, average phosphorous concentrations at the Rum River sites for all conditions, upstream to downstream, were 67.0 µg/L (C.R. 24), 67.4 µg/L (C.R. 7), and 69.9 (Anoka Dam), respectively. On average, phosphorous was higher during baseflow than during stormflow, which is atypical. For example, the average TP across all years at the Rum River C.R. 7 site is 87.2 µg/L during baseflow and 104.5 µg/L post-storm. Historically, 58 of the 162 measurements taken at these Rum River sites have been greater than 100 µg/L.

Cedar Creek. In 2023, TP levels in Cedar Creek averaged 129.0 µg/L during all conditions. It averaged 123.0 µg/L during baseflow and 135.0 µg/L post-storm. Historically, 41 of the 61 measurements taken at the Cedar Creek site have been greater than 100 µg/L. Individual results over 200 µg/L have been a near-annual occurrence since 2015, but were not observed in 2022 and 2023.

Seelye Brook. In 2023, TP levels in Seelye Brook averaged 128.8 µg/L during all conditions. It averaged 133.5 µg/L during baseflow and 124.0 µg/L post-storm. Historically, 44 of the 53 measurements taken at the Seelye Brook site have been greater than 100 µg/L.

Ford Brook. In 2023, TP levels in Ford Brook averaged 160.5 µg/L during all conditions. It averaged 136.50 µg/L during baseflow and 184.50 µg/L post-storm. Historically, 49 of the 60 measurements taken at the Ford Brook site have been greater than 100 µg/L.

Phosphorus reduction is a management priority in the Rum River watershed. Local and regional water plans have set a 5% reduction goal to ensure the river does not become classified as "impaired."

TP - 2023 Baseflow Data

	AVG	MED	TOTAL	> 100 µg/L
Rum River @ CR 24	70.5	70.5	2	0
Seelye Brook @ CR 7	133.5	133.5	2	2
Cedar Creek @ CR 9	123.0	123.0	2	1
Rum River @ CR 7	69.8	65.0	4	0
Ford Brook @ CR 63	136.5	136.5	2	1
Rum River @ Anoka Dam	71.0	66.0	4	1

TP - 2023 Stormflow Data

	AVG	MED	TOTAL	> 100 µg/L
Rum River @ CR 24	63.5	63.5	2	0
Seelye Brook @ CR 7	124.0	124.0	2	2
Cedar Creek @ CR 9	135.0	135.0	2	2
Rum River @ CR 7	65.0	66.0	4	0
Ford Brook @ CR 63	184.5	184.5	2	2
Rum River @ Anoka Dam	68.8	71.0	4	0

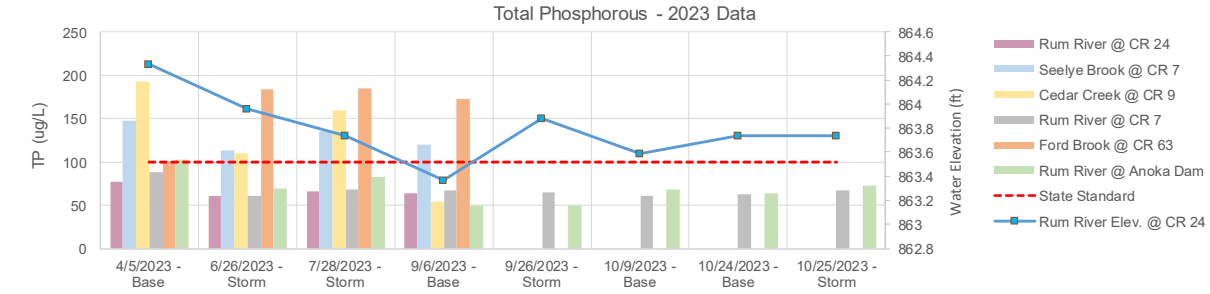
TP - Historical Baseflow Data

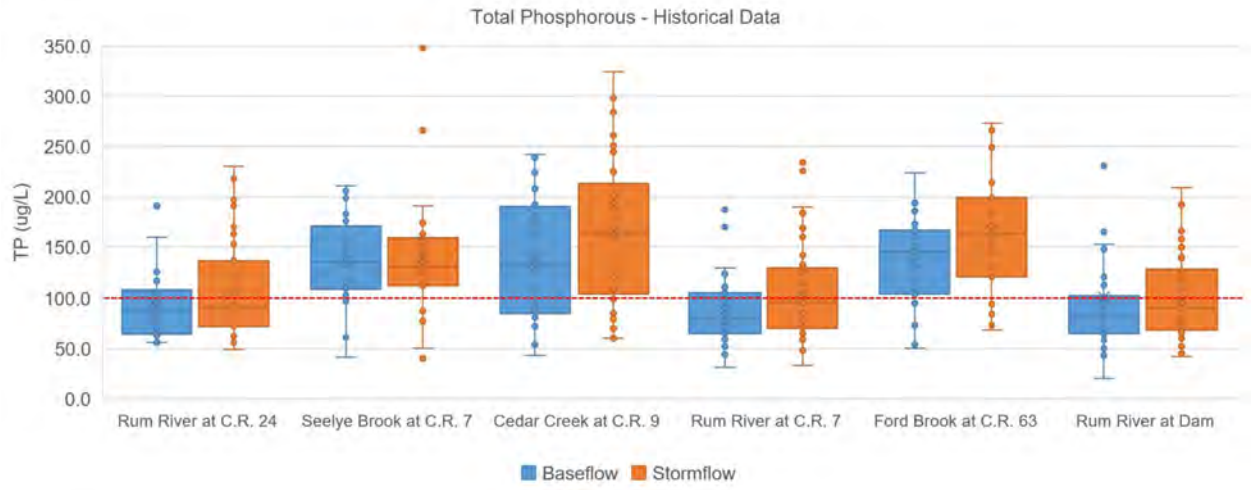
	AVG	MED	TOTAL	> 100 µg/L
Rum River @ CR 24	92.2	88.0	33	11
Seelye Brook @ CR 7	137.4	135.5	28	24
Cedar Creek @ CR 9	136.6	133.0	32	19
Rum River @ CR 7	87.2	80.5	46	12
Ford Brook @ CR 63	136.3	145.0	29	24
Rum River @ Anoka Dam	101.0	81.0	45	14

TP - Historical Stormflow Data

	AVG	MED	TOTAL	> 100 µg/L
Rum River @ CR 24	106.8	91.0	35	14
Seelye Brook @ CR 7	140.4	131.0	25	20
Cedar Creek @ CR 9	165.7	164.0	29	22
Rum River @ CR 7	104.5	96.0	48	21
Ford Brook @ CR 63	166.8	163.0	31	25
Rum River @ Anoka Dam	98.0	90.0	41	13

Total Phosphorus during Baseflow and Storm Conditions. Box plots show the median (middle line), 25th and 75th percentile (ends of box), and 10th and 90th percentiles (floating outer lines). Historical boxplot data also includes this year's data.





Turbidity and Total Suspended Solids

Turbidity and total suspended solids (TSS) are two measurements of solid material suspended in the water. Turbidity is measured by refraction of a light beam passed through a water sample and is sensitive to larger particles. TSS is measured by filtering solids from a water sample and weighing the filtered material. The amount of suspended material present in water is important because it affects water transparency, aquatic life, and because many other pollutants are attached to sediment particles. Suspended solids in the waterway can come from both internal and external sources. External sources can include a variety of particles in stormwater runoff. Internally, bank erosion and movement of the bottom substrate contribute to suspended sediments. A moderate amount of this type of internal loading is natural. The State deems a stream or river "impaired" in the central region of Minnesota when 10% of TSS measurements exceed 30 mg/L. There is no turbidity standard.

Rum River. In 2023, average turbidity at the Rum River sites for all conditions, upstream to downstream, was 9.1 NTU (C.R. 24), 5.6 NTU (C.R. 7), and 2.3 NTU (Anoka Dam), respectively. The average TSS at the Rum River sites for all conditions, upstream to downstream, was 6.0 mg/L (C.R. 24), 5.5 mg/L (C.R. 7), and 3.9 mg/L (Anoka Dam), respectively. Turbidity is generally low in the river but increases are observed after storm events. There is no clear trend of changing turbidity or suspended solids from upstream to downstream.

Cedar Creek. In 2023, average turbidity in Cedar Creek was 10.5 NTU during baseflow conditions and 15.5 post-storm. Average TSS in Cedar Creek was 17.0 mg/L during baseflow conditions and 19.0 mg/L post-storm. The historical median TSS in Cedar Creek has been 13.0 mg/L during baseflow conditions and 14.0 mg/L post-storm. While TSS in Cedar Creek is above the historical median for Anoka County streams, it remains well below the state standard (30 mg/L). Historically, TSS has been observed above the state standard in Cedar Creek on seven occasions, the majority of which were post-storm. Reasons for low suspended material likely include the relative lack of manmade stormwater outfalls and the fact that the creek slowly meanders through broad floodplain wetlands.

Seelye Brook. In 2023, average turbidity in Seelye Brook was 5.7 NTU during baseflow conditions and 0.7 NTU post-storm. Average TSS in Seelye Brook was 8.5 mg/L during baseflow conditions and 4.5 mg/L post-storm. The historical median TSS in Seelye Brook has been 5.5 mg/L during baseflow conditions and 6.0 mg/L post-storm. These are healthy levels that are well below the state standard. Only on one occasion was TSS recorded above the state standard.

Ford Brook. In 2023, average turbidity in Ford Brook was 12.8 NTU during baseflow conditions and 7.8 NTU post-storm. Average TSS in Ford Brook was 14.0 mg/L during baseflow conditions and 7.5 mg/L post-storm. The historical median TSS in Ford Brook has been 6.0 mg/L during baseflow conditions and 14.0 mg/L post-storm. Historically, TSS has been observed above the state standard in Ford Brook on seven occasions, the majority of which were post-storm.

Turbidty - 2023 Baseflow Data

	AVG	MED	TOTAL
Rum River @ CR 24	12.0	12.0	2
Seelye Brook @ CR 7	5.7	5.7	2
Cedar Creek @ CR 9	10.5	10.5	2
Rum River @ CR 7	4.7	3.4	4
Ford Brook @ CR 63	12.8	12.8	2
Rum River @ Anoka Dam	3.3	2.0	4

Turbidity - 2023 Stormflow Data

	AVG	MED	TOTAL
Rum River @ CR 24	6.1	6.1	2
Seelye Brook @ CR 7	0.7	0.7	2
Cedar Creek @ CR 9	15.5	15.5	2
Rum River @ CR 7	6.4	3.7	3
Ford Brook @ CR 63	7.8	7.8	2
Rum River @ Anoka Dam	1.3	1.0	4

Turbidity - Historical Baseflow Data

	AVG	MED	TOTAL
Rum River @ CR 24	8.4	5.6	37
Seelye Brook @ CR 7	6.8	4.5	36
Cedar Creek @ CR 9	9.7	9.8	40
Rum River @ CR 7	8.0	6.6	44
Ford Brook @ CR 63	8.6	6.8	28
Rum River @ Anoka Dam	6.1	4.8	44

Turbidity - Historical Stormflow Data

	AVG	MED	TOTAL
Rum River @ CR 24	11.7	9.0	33
Seelye Brook @ CR 7	7.2	5.6	24
Cedar Creek @ CR 9	13.5	9.4	28
Rum River @ CR 7	10.4	9.3	46
Ford Brook @ CR 63	16.1	10.7	30
Rum River @ Anoka Dam	9.9	6.6	35

TSS - 2023 Baseflow Data

	AVG	MED	TOTAL #	> 30 mg/L
Rum River @ CR 24	8.0	8.0	2	0
Seelye Brook @ CR 7	8.5	8.5	2	0
Cedar Creek @ CR 9	17.0	17.0	2	0
Rum River @ CR 7	6.8	5.5	4	0
Ford Brook @ CR 63	14.0	14.0	2	0
Rum River @ Anoka Dam	4.8	3.0	4	0

TSS - 2023 Stormflow Data

	AVG	MED	TOTAL #	> 30 mg/L
Rum River @ CR 24	4.0	4.0	2	0
Seelye Brook @ CR 7	4.5	4.5	2	0
Cedar Creek @ CR 9	19.0	19.0	2	0
Rum River @ CR 7	4.3	4.5	4	0
Ford Brook @ CR 63	7.5	7.5	2	0
Rum River @ Anoka Dam	3.0	3.0	4	0

TSS - Historial Baseflow Data

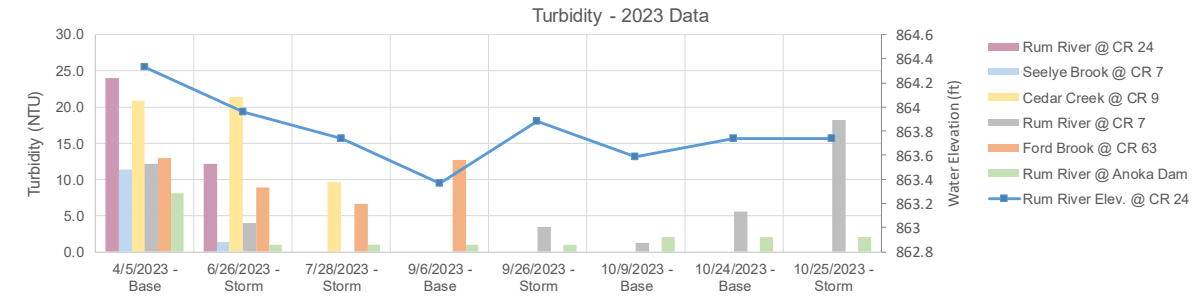
	AVG	MED	TOTAL #	> 30 mg/L
Rum River @ CR 24	7.4	7.0	33	0
Seelye Brook @ CR 7	7.7	5.5	28	1
Cedar Creek @ CR 9	14.3	13.0	32	2
Rum River @ CR 7	6.9	6.0	46	0
Ford Brook @ CR 63	11.3	9.0	29	2
Rum River @ Anoka Dam	8.4	5.5	46	3

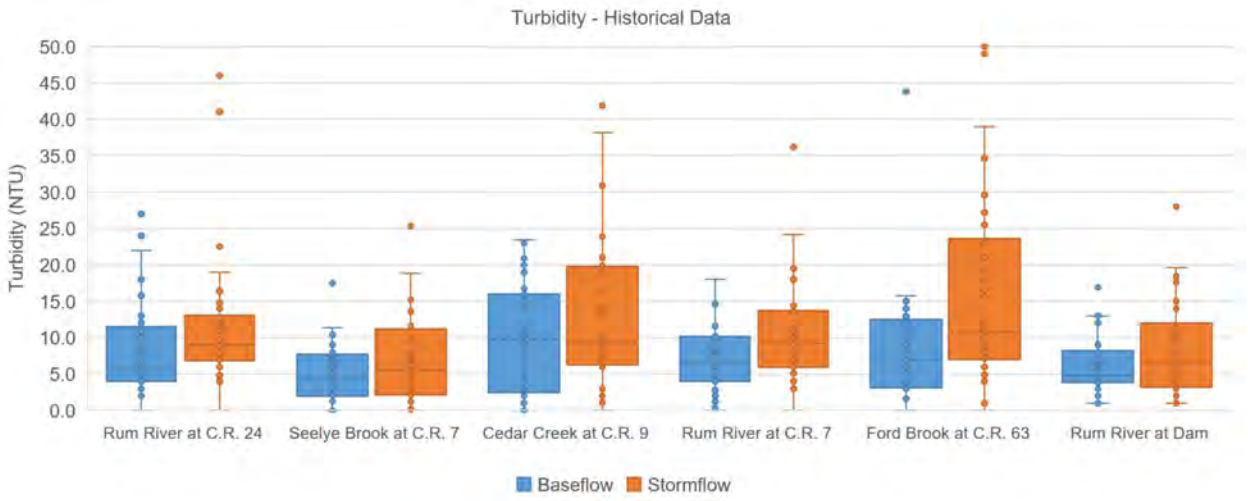
TSS - Historical Stormflow Data

	AVG	MED	TOTAL #	> 30 mg/L
Rum River @ CR 24	9.5	7.0	35	0
Seelye Brook @ CR 7	6.9	6.0	25	0
Cedar Creek @ CR 9	18.3	14.0	29	5
Rum River @ CR 7	9.4	8.0	48	0
Ford Brook @ CR 63	17.3	14.0	31	5
Rum River @ Anoka Dam	8.8	6.0	40	1

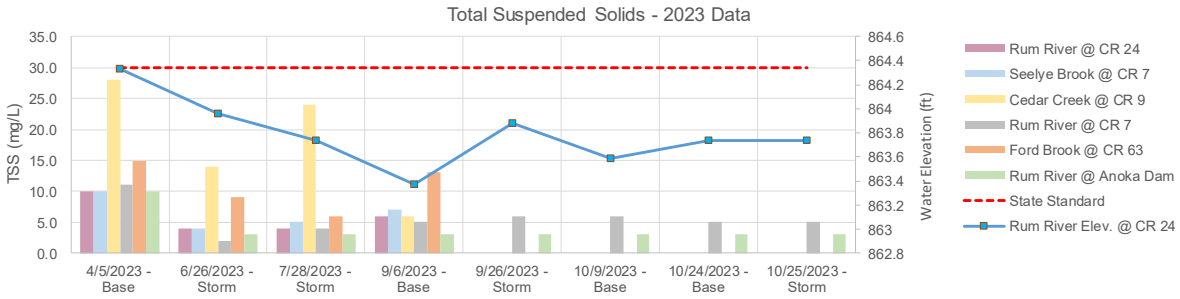
While the Rum River and these tributaries remain well under the impairment threshold for TSS, rigorous stormwater treatment in new developments should be a priority in the coming years. There are also opportunities to better treat current runoff from developed and agricultural landscapes. ACD and partners currently have a well-funded riverbank stabilizations program because it offers multiple benefits to water quality, habitat, and land protection.

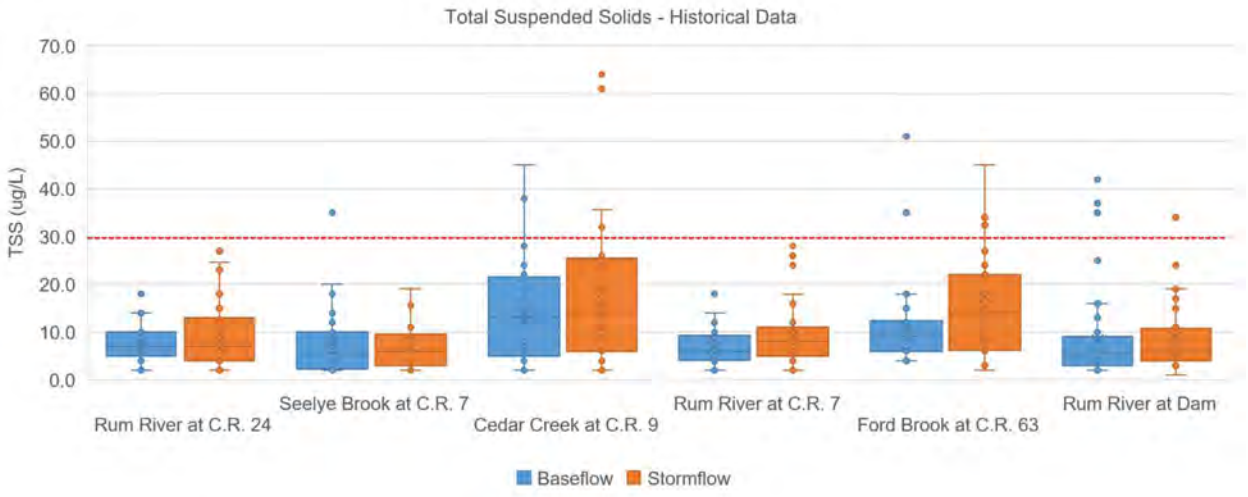
Turbidity during Baseflow and Storm Conditions. Box plots show the median (middle line), 25th and 75th percentile (ends of box), and 10th and 90th percentiles (floating outer lines). Historical boxplot data also includes this year's data.





Total Suspended Solids during Baseflow and Storm Conditions. Box plots show the median (middle line), 25th and 75th percentile (ends of box), and 10th and 90th percentiles (floating outer lines). Historical boxplot data also includes this year's data.





Stream Water Quality – Biological Monitoring

Partners: LRRWMO, ACD, Anoka High School

Description: This long-standing Anoka Conservation District program combines environmental education and stream water quality monitoring. Under the supervision of ACD staff, high school science classes collect aquatic macroinvertebrates from stream sites, identify their catch to the family level, and then use the biotic index to score water and habitat quality. Different families of macroinvertebrates have different water and habitat quality requirements. The families collectively known as EPT (Ephemeroptera, or mayflies, Plecoptera, or stoneflies, and Trichoptera, or caddisflies) are generally pollution intolerant. Other families can thrive in low-quality water. Therefore, a census of stream macroinvertebrates yields important information on overall stream health.

Purpose: To assess stream quality through biological monitoring while providing an environmental education service to the community.

Location: Rum River behind Anoka High School

Results: Results for each site are detailed on the following pages.

Data Interpretation

Consider all biological indices of water quality together rather than look at each alone, since each gives only a partial picture of stream condition. Compare the final numbers to county-wide averages. This gives some sense of what might be expected for streams in a similar landscape, but does not necessarily reflect what might be expected of a minimally impacted stream. Some key numbers to look for include:

Families — Number of Invertebrate families. Higher values indicate better quality.

EPT — Number of families of the generally pollution-intolerant orders. Ephemeroptera, Plecopter, Trichoptera. Higher numbers indicate better stream quality.

Family Biotic Index (FBI) — An Index that utilizes known pollution tolerances for each family. Lower numbers indicate better stream quality.

FBI	Stream Quality Evaluation
0.00-3.75	Excellent
3.76-4.25	Very Good
4.26-5.00	Good
5.01-5.75	Fair
5.76-6.50	Fairly Poor
6.51-7.25	Poor
7.26-10.00	Very Poor

Population Attributes Metrics — **% EPT** compares the number of organisms in the EPT orders (Ephemeroptera, Plecoptera, Trichoptera) to the total number of organisms in the sample. A high percent of EPT is good.

% Dominant Family measures the percentage of individuals in the sample that are in the sample's most abundant family. A high percentage is usually bad because it indicates low evenness (one of a few families dominate, and all others are rare)

Rum River

Anoka High School, Anoka

Monitored Since
2001

Student Involvement
Approximately 100 students in 2023, over 1,600 total since 2001. This site is monitored by Anoka High School, with facilitation from the Anoka Conservation District.

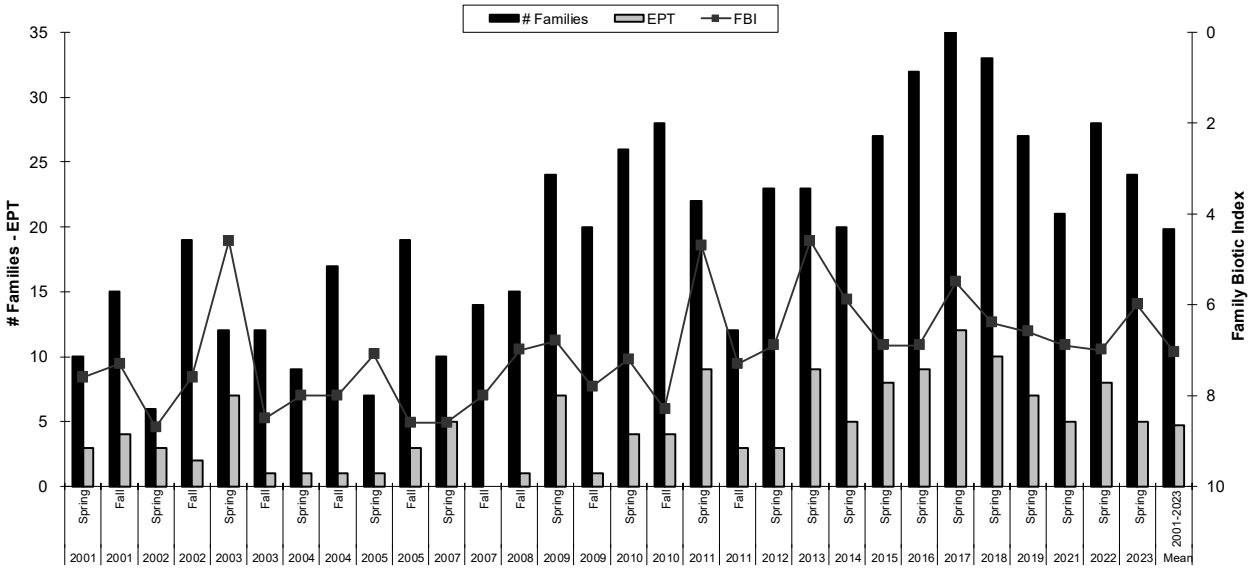
Background

The Rum River originates from Lake Mille Lacs, and flows south through western Anoka County where it joins the Mississippi River in the City of Anoka. In Anoka County the Rum River is riffled (northern part of the county) as well as portions of the river containing pools with a sandy river bottom. The Rum River's overall condition is regarded as excellent and most of the Rum River in Anoka County is designated as a state "scenic and recreational" waterway. The sampling site is located behind the Anoka High School and most sampling has been conducted in a backwater section rather than the main channel.

Results
Findings have suggested declining river health since 2017. However, looking across all years there has been wide variation that might be due to sampling effort, river levels, and other factors.

Results in 2023 were slightly poorer than 2022. In 2023, students collected 24 different families of invertebrates, while 28 families were collected in 2022. Five families of the most sensitive taxa (Ephemeroptera, Plecoptera, and Trichoptera, EPT) were collected in 2023.

Historical Biomonitoring Results for Rum River behind Anoka High School



Biomonitoring Data for the Rum River behind Anoka High School – Most Recent Five Years

Year	2018	2019	2021	2022	2023	Mean
Season	Spring	Spring	Spring	Spring	Spring	2001-2023
FBI	6.40	6.60	6.90	7.00	6.00	7.0
# Families	33	27	21	28	24	19.9
EPT	10	7	5	8	5	4.7
Date	14-May	10-May	11-May	10-May	10-May	
sampling by	AHS	AHS	AHS	AHS	AHS	
sampling method	MH	MH	MH	MH	MH	
# individuals	1648	1341	687	860	1090	
# replicates	3	1	1	1	1	
Dominant Family	Siphlonuridae	Siphlonuridae	Siphlonuridae	Corixidae	Baetiscidae	
% Dominant Family	48.1	66.8	59.1	35.6	38.3	
% Ephemeroptera	65.1	74.4	64.2	18.8	44.1	
% Trichoptera	0.1	0.7	0	0	0	
% Plecoptera	1.9	0.8	0.4	0.7	0.5	
% EPT	67.1	75.9	64.6	19.5	44.6	

Discussion

Historically, both chemical and biological monitoring indicate above average water quality in the Rum River. Poorer results in 2021-2023 may reflect varying site and sampling conditions rather than a shift in the biological community. Habitat is ideal for a variety of stream life, and includes a variety of substrates, plenty of woody, snags, riffles, and pools.

Historically, biomonitoring near Anoka High School was conducted mostly in a backwater area with a mucky bottom, particularly during high or moderate water levels. That area tends to not be occupied by pollution intolerant families and has less diversity. When water levels are low, students are also able to sample in the main channel with its rockier bottom, more sensitive families, and greater diversity. Water levels in the Rum River have been moderate the last several times this site was sampled, requiring backwater sampling; this may be contributing to the decline in sensitive families captured.

Wetland Hydrology

Partners: LLRWMO, ACD

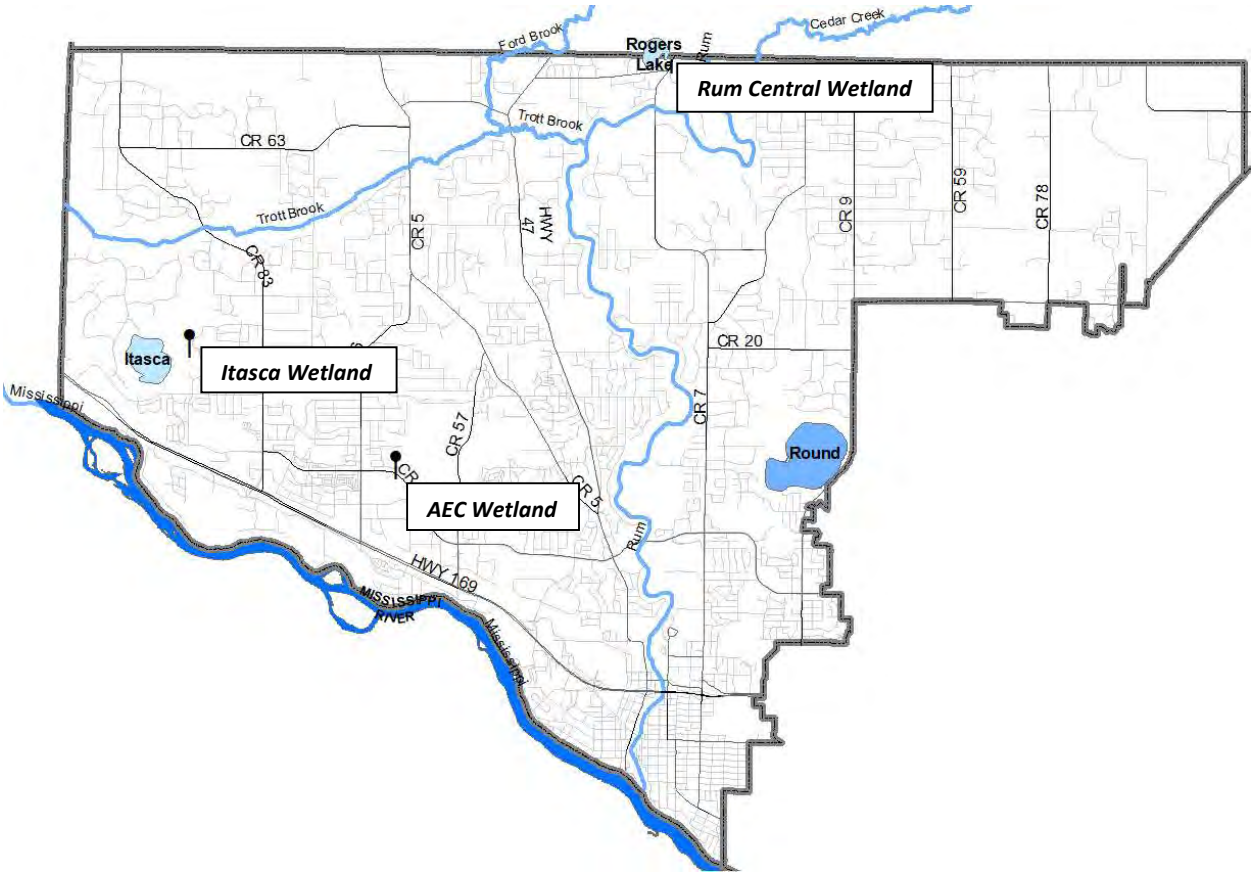
Description: Continuous groundwater level monitoring within wetlands, ACD maintains a network of 23 wetland hydrology monitoring stations.

Locations: AEC Wetland, Rum Central Wetland, Itasca Wetland.

Purpose: To provide understanding of wetland hydrology, including the impacts of climate and changes in land use. These data aid in local wetland delineations by documenting hydrologic trends including the timing, frequency, and duration of saturation.

Results: See the following pages

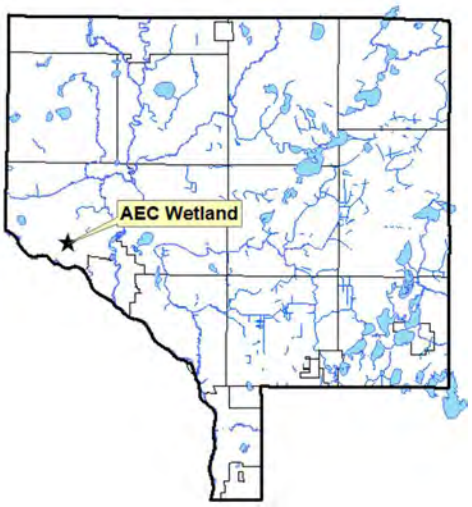
2023 LRRWMO Wetland Hydrology Monitoring Sites



AEC REFERENCE WETLAND

Cottonwood Park, City of Ramsey

Site Information



Monitored Since: 1999

Wetland Type: 3

Wetland Size: ~18 acres

Isolated Basin: No, probably receives storm water

Connected to a Ditch: No

Surrounding Soils: Hubbard coarse sand

Soils at Well Location:

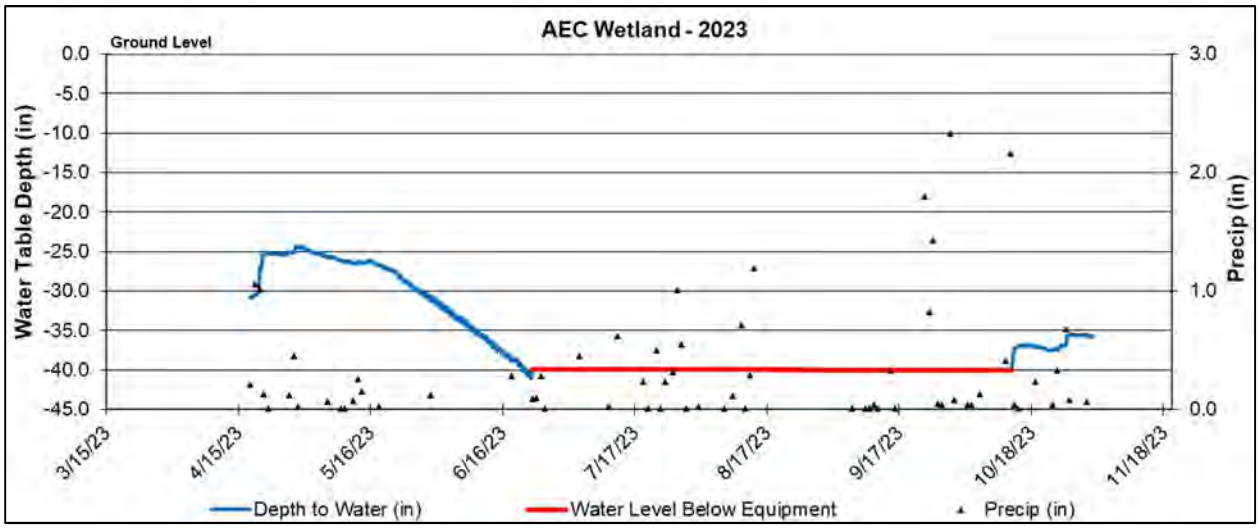
Horizon	Depth	Color	Texture	Redox
A	0-15	10yr2/1	Sandy Loam	-
Bw	15-40	10yr3/2	Gravelly Sandy loam	-

Vegetation at Well Location:

Scientific	Common	% Coverage
Populus tremuloides	Quaking Aspen	30
Salix bebbiana	Bebb Willow	30
Carex Spp	Sedge undiff.	30
Solidago canadensis	Canada Goldenrod	20

Other Notes: This boring is located near the wetland boundary. In 2023, Anoka County experienced drought conditions. As a result, this boring was dry the majority of the year.

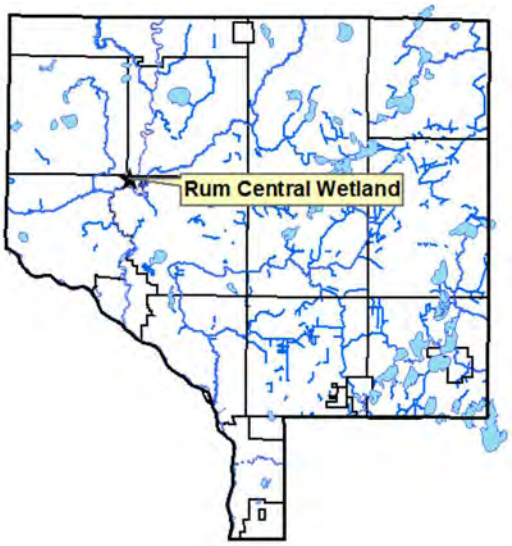
2023 Hydrograph (Well Depth 40 inches)



RUM CENTRAL REFERENCE WETLAND

Rum River Central Regional Park, Ramsey

Site Information



Monitored Since: 1997

Wetland Type: 6

Wetland Size: ~0.8 acres

Isolated Basin: Yes

Connected to a Ditch: No

Surrounding Soils: Zimmerman fine sand

Soils at Well Location:

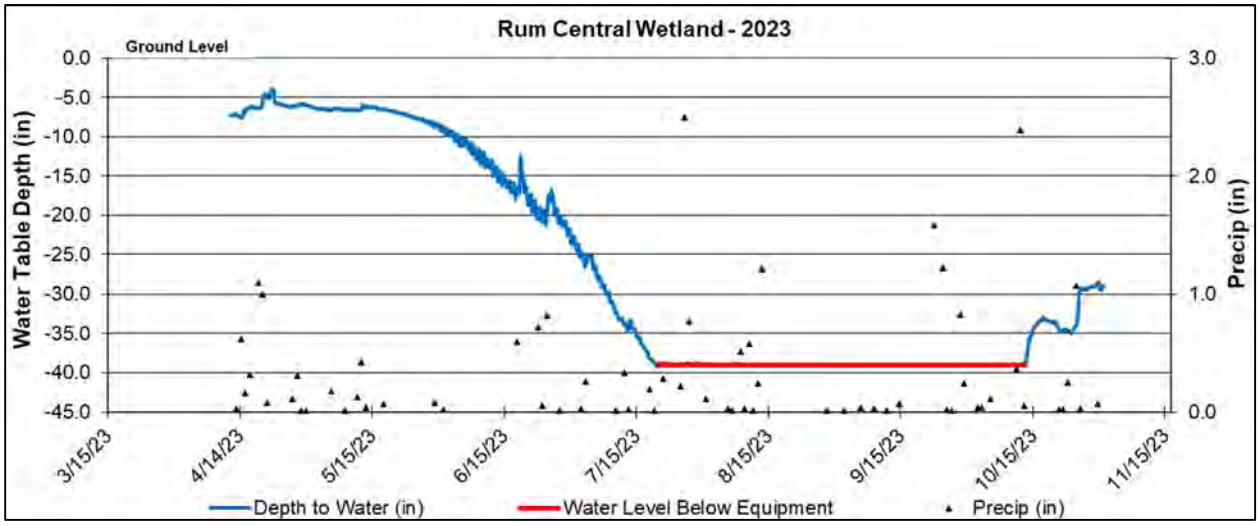
Horizon	Depth	Color	Texture	Redox
A	0-12	10yr2/1	Sandy Loam	-
Bg1	12-26	10ry5/6	Sandy Loam	-
Bg2	26-40	10yr5/2	Loamy Sand	-

Vegetation at Well Location:

Scientific	Common	% Coverage
Phalaris arundinacea	Reed Canary Grass	40
Corylus americanum	American Hazelnut	40
Onoclea sensibilis	Sensitive Fern	30
Rubus strigosus	Raspberry	30
Quercus rubra	Red Oak	20

Other Notes: This boring is located near the wetland boundary. Anoka County was in a state of drought through most of 2023. As a result, the boring was dry during the fall season.

2023 Hydrograph (Well Depth 39 inches)



LAKE ITASCA TRAILS REFERENCE WETLAND

Lake Itasca Trails Park, City of Ramsey

Site Information

Monitored Since: 2013

Wetland Type: 2/6

Wetland Size: ~10 acres

Isolated Basin: Yes

Connected to a Ditch: No

Surrounding Soils: Hubbard coarse sand

Soils at Well Location:

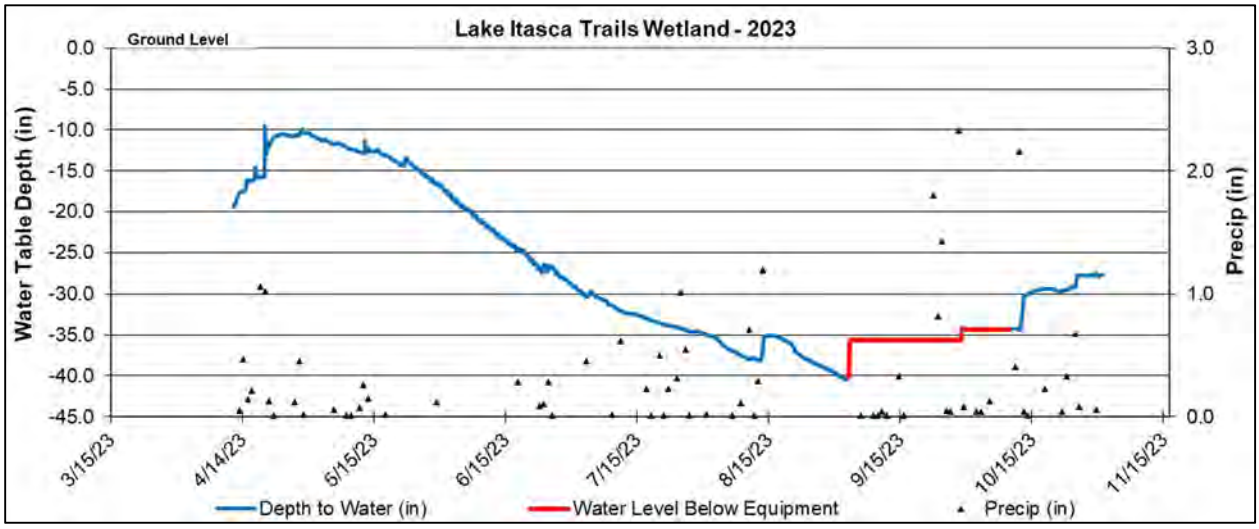
Horizon	Depth	Color	Texture	Redox
A1	0-12	10yr2/0	Mucky sand	-
A2	12-20	10ry2/1	Sand	-
B1	20-36	10yr4/1	Sand and fine gravel	-
B2	36-48	10yr6/1	Sand and fine gravel	-

Vegetation at Well Location:

Scientific	Common	% Coverage
Carex stricta	Hummock Sedge	80
Phalaris arundinacea	Reed Canary Grass	20
Salix sp.	Willow	20
Rubus sp.	Bristle-berry	5

Other Notes: The boring is located near the wetland boundary. Anoka County was in a state of drought through most of 2023. As a result, the boring was dry during late fall.

2023 Hydrograph (Well Depth 40 inches)



Subwatershed Studies

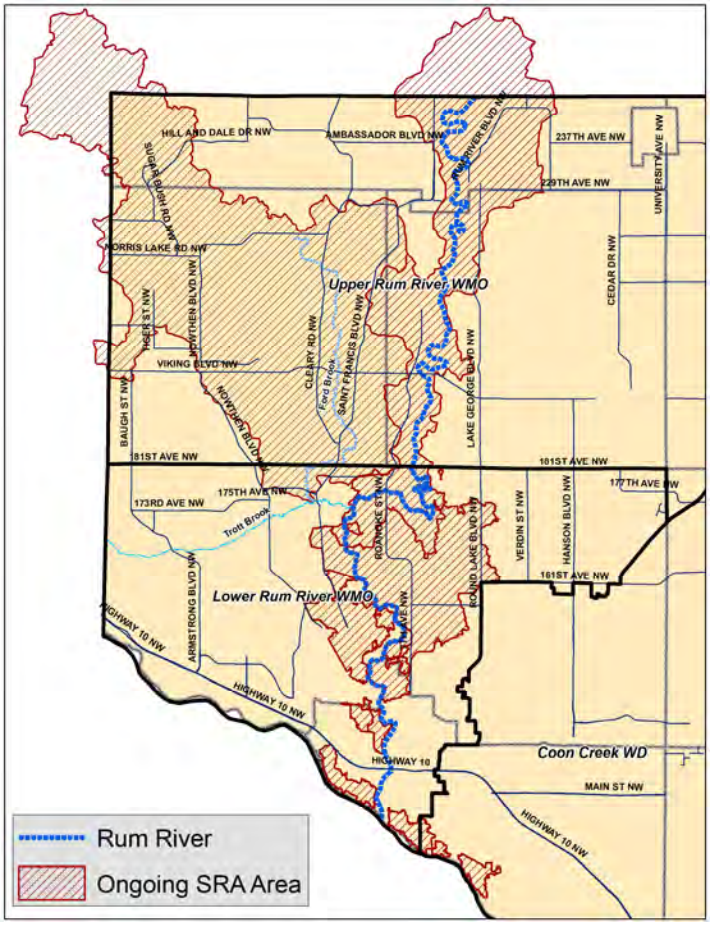
Partners: LRRWMO, URRWMO, ACD

Description: Subwatershed studies identify projects to improve water quality and rank them by cost effectiveness. The process includes identifying a priority waterbody, the watershed delineation, identifying projects, cost estimates, and modeling benefits.

Purpose: To allow prioritization of the most cost effective water quality projects.

Results: In 2023 the Anoka Conservation District is working on subwatershed studies for the Ford Brook watershed, and direct drainage areas to the Rum and Mississippi Rivers. The areas are discontinuous because some areas were previously studied, do not directly discharge to the waterbody of interest, or have little or no stormwater infrastructure. Among the studied areas, some areas have more analysis due to the number of possible projects identified and direct discharge into the priority waterbody.

Each of these studies is underway and will be completed in 2024. Funding is from a Rum metro Watershed Based Implementation Funding grant and match from the Upper and Lower Rum River WMOs.



Water Quality Grant Fund

Partners: LRRWMO, ACD

Description: The LRRWMO provides cost share grants for projects on both public and private lands that will improve water quality, such as repairing streambank erosion, restoring native lakeshore vegetation, or installing rain gardens. ACD administers this funding. Projects affecting the Rum River are given priority because it is viewed as an exceptionally valuable resource.

Purpose: To improve water quality in lakes, streams, and rivers by correcting erosion problems and treating stormwater runoff before it reaches the water bodies.

Results: Projects reported in the year they are installed.

LRRWMO Cost Share Fund Summary

2020 LRRWMO Contribution	$1,449.76
2022 LRRWMO Contribution	$2,000.00
2022 Expense – 6 Rum & Mississippi Riverbank stabilizations	$6,000.00
2023 LRRWMO Contribution	$5,000.00
Current Balance	$8,449.76

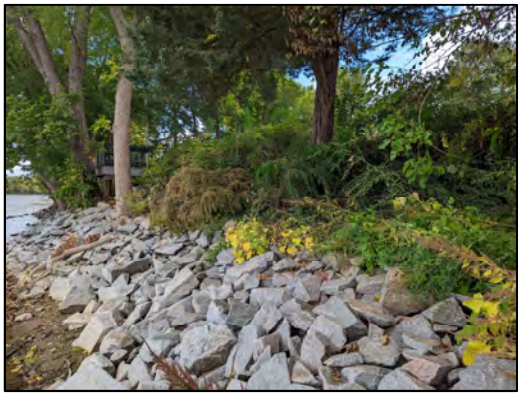
Water Quality Improvement Projects

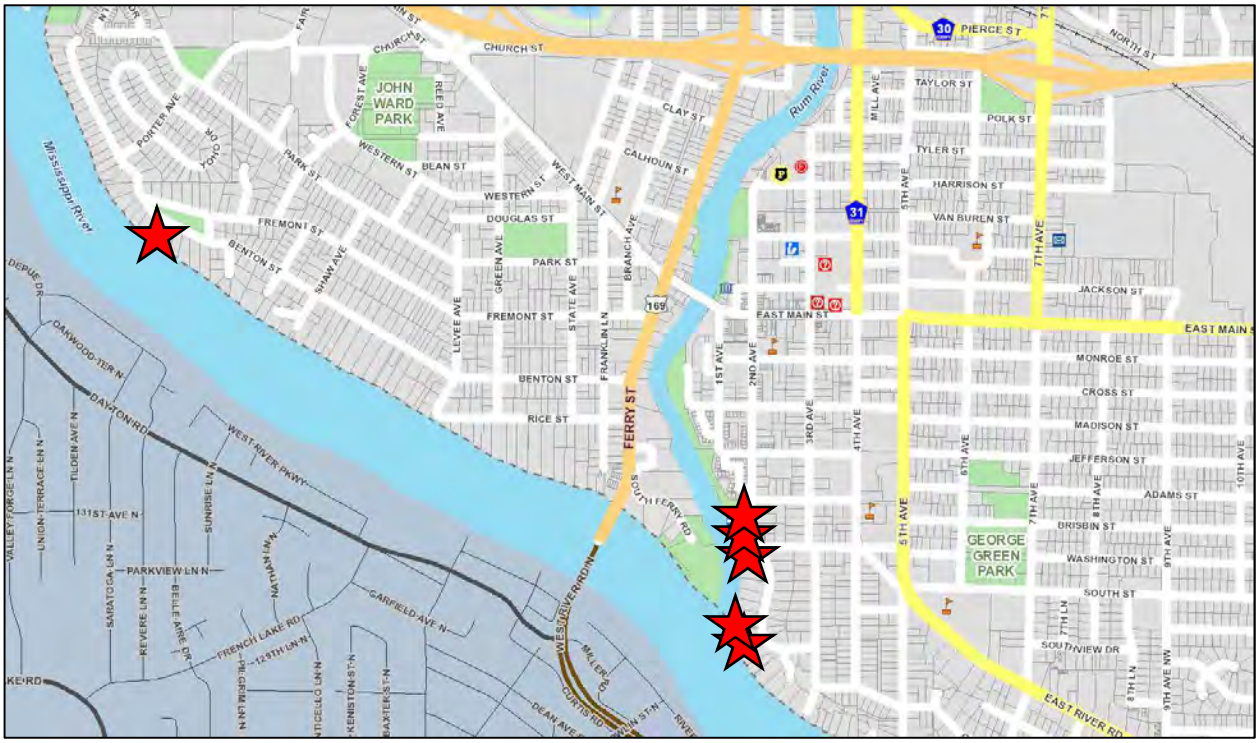
The following water quality projects were installed in 2023 in the Lower Rum River WMO.

Critical Area Plantings – 3 Sites on the Rum River, 3 Sites on the Mississippi River

In 2023 ACD did follow-up planting at six riverbank sites where the toe-of-slope had been stabilized in 2022. At each site, rock was used on the lower bank in 2022. 2023 work was upper bank stabilization with vegetation, totaling 7,747 square feet and 760 linear feet of riverbank. Funding was from the Rum metro Watershed Based Implementation Fund grant (WBIF), state cost share grant from ACD, district capacity grant funds from ACD, and landowners.

Photos: Two sites during vegetation establishment.

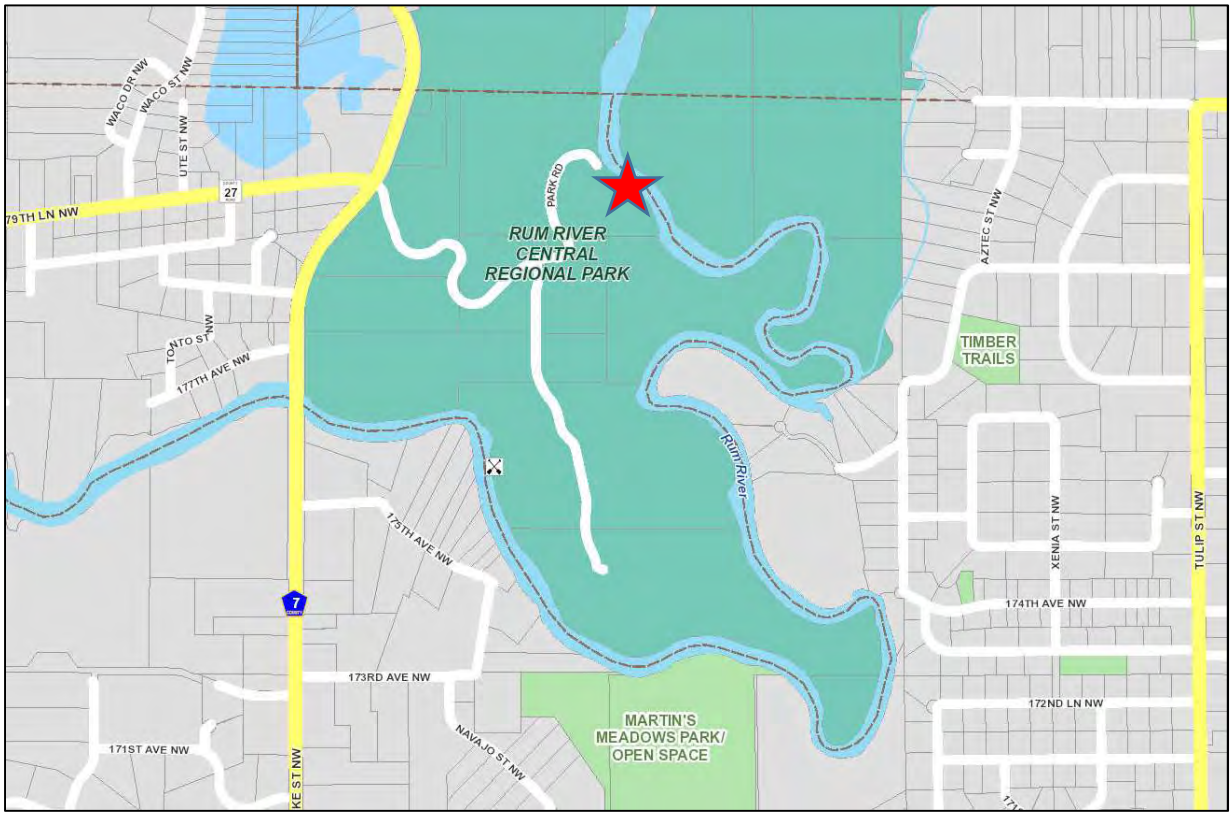




Rum Central Park Boat Launch Area Riverbank Stabilization

A riverbank stabilization project was completed in 2022, and subsequently damaged by spring 2023 floods before vegetation establishment. That flood was the highest in 51 years. The Anoka Conservation District and Anoka County Highway Department repaired the damage. The project length was 90 ft. Funding sources were Anoka County and the Outdoor Heritage Fund.

Photo: Flooding damage spring 2023 (left). July 2023 after repair (right).



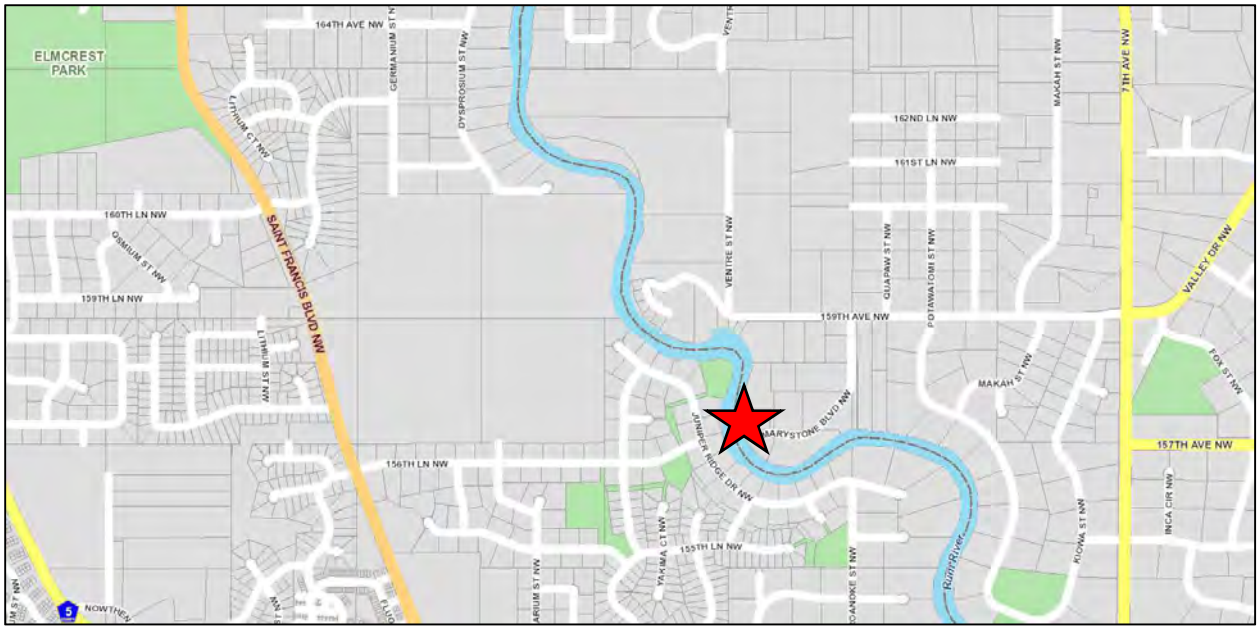
Neilson Rum Riverbank Stabilization

A 100 linear ft riverbank was stabilized. Techniques included:

- Protecting the toe of bank with a cedar tree revetment,
- Contouring the slope with brush bundles to hold soil from migrating downslope,
- Revegetation by hydroseeding, and 1,000 plant plugs and shrubs.

Project benefits included stabilizing 3,200 sq ft, suspended solids reduction of 19.56 tons/yr, and phosphorus reduction of 16.62 lbs/yr.

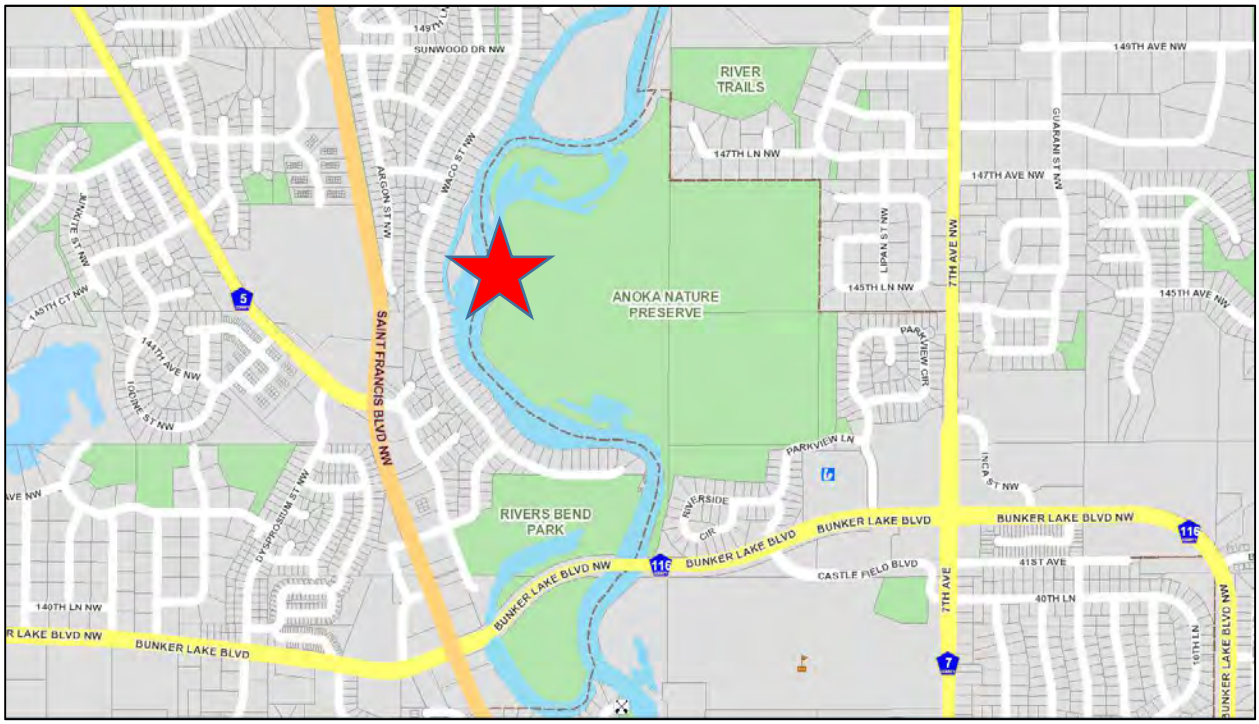
Project design and construction oversight were by the Anoka Conservation District. Construction was by Prairie Restorations, Inc. The project was funded with a combination of Rum Metro Watershed Based Implementation Funds from the MN Board of Water and Soil Resources, other state funds, and the landowner.



Anoka Nature Preserve Riverbank Stabilization

570 feet of cedar tree revetments were installed to stabilize moderately eroding banks of the Rum River. Installation was completed by MN Conservation Corps crews, with assistance and organizing from the Anoka Conservation District. Bare root shrubs were planted throughout. Funding was from a MN DNR Conservation Partners Legacy grant, Conservation Crews of Minnesota and Iowa, the Anoka Conservation District, and donated supplies.

Photos: Riverbank pre-project (left). Installed cedar tree revetment (right).



Annual Report to BWSR

Partners: LRRWMO, ACD

Description: The Lower Rum River Watershed Management Organization (LRRWMO) is required by law to submit an annual report to the Minnesota Board of Water and Soil Resources (BWSR). This report consists of an up-to-date listing of LRRWMO Board members, activities related to implementing the LRRWMO Watershed Management Plan, the status of municipal water plans, financial summaries, and other work results. The report is due annually, 120 days after the end of the URRWMO's fiscal year (April 30th).

Purpose: To document progress toward implementing the LRRWMO Watershed Management Plan and to provide transparency of operations.

Location: Watershed-wide

Results: ACD prepared the LRRWMO annual report

Website Maintenance

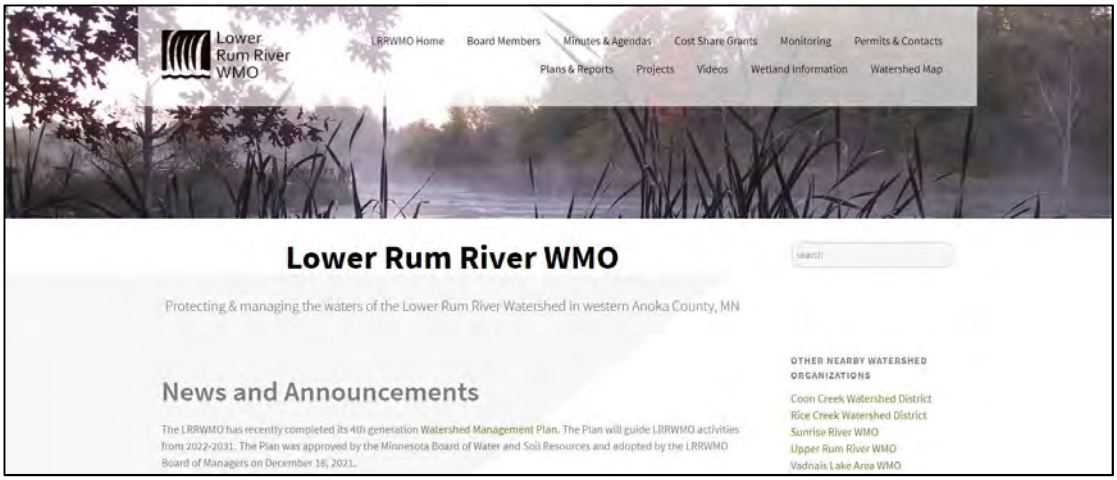
Partners: LRRWMO, ACD

Description: The LRRWMO contracted ACD to maintain their official website.

Purpose: To increase awareness of the LRRWMO. The website also provides tools and information regarding LRRWMO programs.

Location: http://www.lrrwmo.org/

Results: ACD maintained the existing LRRWMO website, paid the domain registration and hosting fees, and posted meeting minutes and agendas.



Newsletters

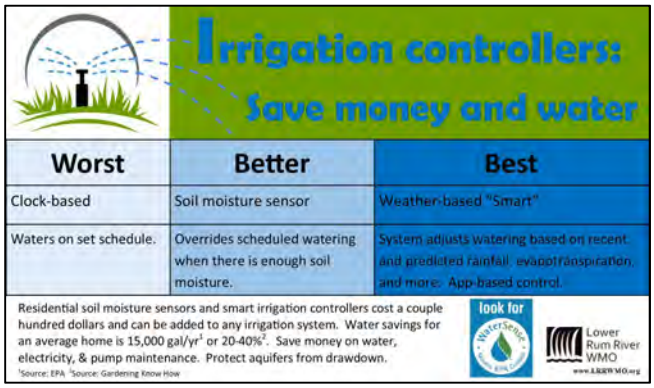
Partners: ACD, LRRWMO

Description: ACD develops LRRWMO outreach pieces, required by the state, such as newsletter articles or infographics. Topics have included stormwater management, wetland regulation and protection, water quality best management practices, septic fix-up funding opportunities, groundwater, watershed planning, and others.

Purpose: To increase public awareness of the LRRWMO and its programs.

Location: Watershed-wide

Results: ACD prepared three articles/infographics for the LRRWMO in 2023. The topics included smart irrigation, the Adopt-a-Drain Program, and septic system fix-up grants. Articles were printed in partnering city newsletters.



Outreach and Education

Partners: ACD, Anoka County, WMO's, watershed districts, cities and townships

Description: ACD conducted public outreach and education including newsletter articles, workshops, community events, and others. Each effort is intended to reduce work needed by cities and avoid duplication. There are multiple funding sources including cities, watershed organizations, ACD, and Watershed Based Implementation Funding from the State.

Purpose: To inform community residents, businesses, staff, and decision-makers about issues affecting local waterbodies and groundwater resources. To achieve behavioral changes that improve water quality and recruit people to install water quality projects.

Location: Watershed wide

Results: Outreach efforts are collaborative. Some tasks are exclusively performed by ACD for the LRRWMO. The LRRWMO also provides funding to support the Anoka County Water Resources Outreach Program which uses funds pooled from various sources to perform regional outreach used in multiple watersheds. Finally, the LRRWMO area benefits from outreach by the Rum River Watershed Partnership.

2023 accomplishments included:

Workshops promotion

- Smart Salting – Distributed information to community public works departments about this training and certification program from the MPCA.
- Cover Crops & Soil Health – Promoted a workshop to agricultural producers. Funded by the Rum River Watershed Partnership.

Community events

- Andover City Council presentation – ACD staff presented about watershed planning and new state grants for water quality.
- River Clean Up – Promotion of a citizen-led Mississippi River cleanup event.
- Tree Planting at Wetland Restoration – ACD staff, along with The Nature Conservancy, led a volunteer tree planting effort at the Andover Pine Hills North wetland restoration project.

Other

- Adopt a Drain – ACD promoted this program through the watershed. Presently there are 134 adopted drains in the LRRWMO.
- Videos – The "Our Waters" video series which the LRRWMO contributed to produce received national press. The "Our Groundwater Connection" video was used by Ohio TV news to help explain groundwater contamination from the East Palestine train derailment.
- Local Officials Education about Land Use Planning – A new video entitled "When Development Comes to Town" was promoted to elected officials and planning/zoning committees. The video was funded by the Lower St. Croix Partnership.

ANOKA CONSERVATION DISTRICT
1318 McKay Drive NE, Suite 300
Ham Lake, MN 55304
Phone: (763) 434-2030 Fax: (763) 434-2094
www.AnokaSWCD.org

MEMO

To: **ACD Board of Supervisors**

From: **Jamie Schurbon, Watershed Projects Manager**

Date: **20 February 2024**

Re: **LRRWMO 2024 Contract**

A 2024 contract between the LRRWMO and ACD is ready for consideration. The contract includes administrative services, water monitoring, outreach, website, and projects.

The tasks and costs exactly match the LRRWMO 2024 budget, except for one. The exception is that $1,000 was budgeted for biomonitoring of the Rum River with Anoka High School; the actual cost is $1,250.

Contract summary

Task	Note	Fee
Watershed Coordinator	Up to amount, billed for actual hours	$15,000
Annual report to BWSR		$900
Grant search and applications		$1,100
Lake water quality monitoring	Round Lake	$2,400
Lake level monitoring	Itasca, Round, Rogers, Sunfish/Grass	$1,400
Rum River water quality monitoring	Rum R. at CR 7 plus analysis with data collected by Met Council at Anoka Dam	$2,180
Rum River biomonitoring	With Anoka High School	$1,250
Reference wetland monitoring	3 sites	$2,175
Website		$960
Newsletter articles	2 articles, printed in city newsletters	$1,120
Outreach coordinator		$3,680
Water quality cost share grant fund		$6,000
Match for upcoming WBIF grant projects		$18,600
TOTAL		$56,765

CONTRACT FOR SERVICES

between the

LOWER RUM RIVER WATERSHED MANAGEMENT ORGANIZATION

and the

ANOKA CONSERVATION DISTRICT

for

2024 Water Monitoring and Management

This AGREEMENT is made and entered into by and between the LOWER RUM RIVER WATERSHED MANAGEMENT ORGANIZATION, hereinafter referred to as the LRRWMO, and the ANOKA CONSERVATION DISTRICT, a subdivision of state government organized under MN Statute 103C with a regular place of business at 1318 McKay Drive NE, Suite 300, Ham Lake, MN 55304, hereinafter referred to as ACD.

WITNESSETH

WHEREAS, the ACD and the LRRWMO have the common objective of properly and efficiently managing natural and water resources for the long term good; and

WHEREAS, the LRRWMO and the ACD are mutually interested in cooperating with each other in order to facilitate implementation of the 2024 LRRWMO Work Plan; and

WHEREAS, the parties agree that it is in their best interest to define their respective responsibilities and obligations; and

WHEREAS, the parties are authorized to enter into agreements for joint exercise of powers common to them pursuant to the Minnesota Joint Powers Act, Minn. Stat. §471.59;

NOW, THEREFORE, it is mutually stipulated and agreed;

1 Purpose

The parties agree that they have joined together for the purpose of implementing the 2024 LRRWMO WORK PLAN, which is attached hereto and incorporated herein by reference.

2 Term

2.1 **Effective date:** The date of contract execution by all parties.

2.1.1 **Expiration date:** April 30, 2025.

2.2 **Early termination.** Either party may terminate this agreement or portion thereof at any time with 30 days written notice, or shorter time if mutually agreed. Both parties are responsible for their duties through the date of termination.

2.3 **Survival of terms**. The following clauses survive the expiration or cancellation of this agreement: liability, disposition of work products, employees.

3 LRRWMO Duties

The LRRWMO is responsible to:

3.1 Compensate the ACD per this agreement. Compensation will be limited to the amount specified in this agreement. Funds used shall be from non-state sources so they are eligible as local match for local water planning block grants.

4 ACD Duties

The ACD is responsible to:

4.1 Carry out the tasks outlined in the Work Plan considering budget, staffing and environmental constraints.

4.2 Maintain detailed accounting of all financial transactions and in-kind contributions.

4.3 Providing a final report of activities and finances by March 31, 2024.

5 Disbursement of Funds

The PARNTER(S) will invoice the LRRWMO on the following schedule:

5.1 Watershed Coordinator services shall be invoiced for actual hours no more frequently than quarterly.

5.2 All other work The ACD will invoice the LRRWMO 100% of the total amount of this agreement immediately following execution of this agreement The LRRWMO may pay 100% immediately or may pay a minimum of 75% immediately and the remaining 25% following satisfactory completion of all work tasks.

5.3 The ACD must refund to the LRRWMO any fees paid for work that is not completed to the terms specified in this AGREEMENT.

6 Purchases

Any equipment purchased pursuant to this agreement will become the property of the entity which issues payment for that equipment.

7 Equipment

Equipment necessary to perform the tasks in this agreement shall be provided by the ACD, unless specified otherwise in this agreement.

8 Liability

8.1 In the performance of this agreement the ACD and LRRWMO mutually agree to indemnify and hold harmless each other from any claims, losses, costs, expenses or damages resulting from the acts or omissions of the respective officers, agents, or employees relating to activities conducted by either party under this Agreement. Nothing herein shall be deemed a waiver by either party of the limitations on liability set forth in Minnesota Statutes, Chapter 466; and neither party shall be required to indemnify the other for any claims in excess of the

limitations set forth in Minnesota Statutes, Chapter 466, less any amounts the indemnifying party is required to pay on behalf of itself, its officers, agents, and employees for damages arising out of the same occurrence.

8.2 The ACD shall maintain compliance with Minn. Stat 176.181, subd. 2, pertaining to worker's compensation insurance coverage. ACD employees will not be considered LRRWMO employees. Any claims that arise under the Minnesota Worker's Compensation Act on behalf of these employees are in no way the LRRWMO's obligation or responsibility.

9 Disposition of Work Products

9.1 At the time of completion or termination of the work, the ACD shall make available to the LRRWMO all maps, tracings, reports, resource materials and other documents pertaining to the work or to the PROJECT. Any adaptation or interpretation will be at the third party's sole risk and without liability or legal exposure to the ACD.

9.2 All data and information obtained by the ACD in the performance of the work herein may be kept and used by the ACD at its discretion to the benefit of the public.

10 Employees

10.1 ACD staff engaged in work under this agreement are independent contractors and not LRRWMO employees.

10.2 ACD and the LRRWMO agree to abide by the requirements and regulations of The Americans with Disabilities Act of 1990 (ADA), the Minnesota Human Rights Act (Minn. Stat. C.363), and Title VII of the Civil Rights Act of 1964. These laws deal with discrimination based on race, gender, disability, and religion, and with sexual harassment. Violation of any of the above laws can lead to termination of this Agreement.

11 Entire Agreement

The entire agreement of the parties is contained herein including the attached "2024 Work Plan." Any alterations, variations, modifications or waivers of the provisions of this agreement shall be valid only when they have been reduced to writing and duly signed by the parties herein.

IN WITNESS WHEREOF, the parties hereto have executed this agreement the day and year first above written.

LOWER RUM RIVER WATERSHED MANAGEMENT ORGANIZATION	**ANOKA CONSERVATION DISTRICT**
By: _____	By: _____
Date: _____	Date: _____

2024 LRRWMO Work Plan

TASK	SITES/ELEMENTS	2024 Fee
Administrative		
Watershed Coordinator	Day to day management of LRRWMO affairs, excluding secretarial and financial management. See description on the following pages.	up to $15,000 to be billed hourly
Annual Report to MN Board of Water & Soil Resources	Report must meet MN Rules 8410.0150. Distribution includes digital copies to four communities, board members, and others.	$900
Grant Applications	Grant applications for projects consistent with the LRRWMO Watershed Plan. In 2024 the anticipated tasks is coordination of the FY2025 Watershed Based Implementation Funds (WBIF) convene process.	$1,100
Water Monitoring		
Lake Water Quality Monitoring	Round Lake	$2,400
Lake Level Monitoring	Itasca Lake	$1,400
	Round Lake	
	Rogers Lake	
	Sunfish/Grass Lake	
Rum River Water Quality Monitoring	Rum River at County Road 7 Eight occasions Includes optional chlorides sampling 4x ($250) and Reporting of Met Council collected data from the Rum River near Anoka Dam ($300) (cost NOT shared with Upper Rum River WMO in 2024 and therefore higher than other yrs)	$2,180
Student Stream Biomonitoring	Rum River with Anoka High School	$1,250
Reference Wetland Hydrology Monitoring	AEC	$2,175
	Rum Central	
	Lake Itasca Trails	
Outreach		
Maintain/Operate LRRWMO Website	Hosting	$960
	Domain name fees	
	Maintenance fees	
	Posting 12 agendas with meeting packets, and up to 6 late additions/updates	
	Posting 12 minutes	
Newsletters	Prepare two articles for printing in city newsletters Topics: 1. Smart salting promotion 2. One of the following: septic system care, hazardous waste disposal, eco-friendly landscaping, terrestrial/aquatic invasive species, wetland protection, rain barrels, etc.	$1,120
Education Coordinator - Anoka Co Water Resource Outreach Collaborative (WROC)	Outreach services to be determined by ACD in consultation with the LRRWMO outreach plan adopted in 2022 (first priority), AWROC collaborative (LRRWMO is member), Rum River Watershed Partnership outreach work plan, LRRWMO CAC, and input directly from the LRRWMO board.	$3,680

	2024 wanted tasks, per the LRRWMO outreach plan, as funding allows are: - Projects and resources tour for elected officials, city and partner agency staff. Note: LRRWMO has budgeted an additional $1,000 that is not per this contract to cover tour expenses. - Project maintenance reminders to past water quality project cooperators. - Promote existing stewardship videos. - New stewardship videos: forest stewardship, soil health, or others. - Adopt a drain - Recruit sites for projects as installation funding is available. LRRWMO funding may be used as match for Watershed Based Implementation Funding grants.	
CAC Coordination	Up to 2 CAC mtgs/yr. CAC member list is in appendix D of the LRRWMO plan. 2024 anticipated work tasks: Solicit project ideas from the CAC to be funded by FY2025 Watershed Based Implementation Funds (WBIF). Forward that information to the grant convene process committee for decision-making.	Include in Watershed Coordinator duties
Studies		
Trott Brook Low Oxygen Study	Study of low oxygen impairment of Trott Brook causes and possible projects. The LRRWMO funded the monitoring component of the study in 2023. The 2024 study/analysis is funded by a FY2023 Rum River Watershed Based Implementation Funding (WBIF) grant.	$0
Projects		
Water Quality Grant Fund	Water quality grant fund description: Incentive grants to willing landowners wishing to do water quality improvement projects. Administered through ACD. Projects must follow ACD policies and any additional policies directed by the LRRWMO. Primary purpose is for projects in the LRRWMO, and the LRRWMO Watershed Plan activity PP-5 also includes financially supporting projects upstream of the LRRWMO.	$6,000
Match for Anticipated Watershed Based Implementation Funds (WBIF) grant	Funds to meet the 10% grant match requirement. Activities to be funded are selected by the FY2025 Watershed Based Implementation Funds (WBIF) convene committee, of which the LRRWMO is a member. In the event that ACD is not the fiscal agent for all of this grant, these funds will be provided proportionately to the fiscal agent(s).	$18,600
TOTAL		**$56,765**

*Of this total, $15,000 for watershed Coordinator services to be billed quarterly on an hourly basis.

DESCRIPTIONS OF TASKS

Watershed Coordinator

To be billed hourly no more frequently than quarterly for actual expense only. Administrative services totaling an estimated 190 hrs to include:

- Monthly LRRWMO meeting coordination.
- Official WMO point of contract.
- Task checklist to track progress toward plan accomplishments.
- Represent LRRWMO at staff level meetings,
- Budgeting, approximately 50% effort shared with the Finance Director.
- Referring permit applicants to cities.
- Recommend activities, projects, and other work consistent with the LRRWMO Watershed Management Plan.
- Miscellaneous administration as directed by the LRRWMO board or essential for the basic operations of the LRRWMO.

The scope of work does not include:

- Preparation of meeting packets.
- Financial bookkeeping.
- Operation of the LRRWMO permitting program.

Annual Report to BWSR

Prepare the LRRWMO annual report to the MN Board of Water and Soil Resources (BWSR) and member communities. The report will be formatted and contain content consistent with Minnesota Rules Chapter 8410.0150.

Fees must cover the costs of:

- compiling the report, including financial report,
- gathering some data from member communities,
- formatting,
- submit report to BWSR by email, and
- posting a pdf version of the report on the LRRWMO website.

In order to facilitate the reporting, the LRRWMO will:

- Provide ACD with an annual LRRWMO financial summary including itemized expenditures, revenues and account balances,
- Ensure that member communities complete their annual report to the LRRWMO in a timely fashion, and provide these to the ACD,
- Provide an annual audit or equivalent, as required by the State.

According to Minnesota Rules Chapter 8410.0150, the final report is due to BWSR within 120 days of the end of the WMO's fiscal year. The end of the LRRWMO fiscal year is **December 31**, making the deadline **April 30**. The ACD will **provide a draft report by the March LRRWMO meeting** for review and comment. The ACD will do up to one round of revisions if requested, then submit the final document to BWSR before the submittal deadline.

This task does not include annual financial reporting to the MN State Auditor.

Grant Applications

Grant applications for projects consistent with the LRRWMO Watershed Plan.

Lake Water Quality Monitoring

Each lake will be monitored every other week from May through September for a total of 10 occasions. The water will be tested for total phosphorus, chlorophyll-a, dissolved oxygen, turbidity, temperature, conductivity, pH, salinity and transparency. Subjective ranking of recreational suitability and physical conditions will also be noted using the Metropolitan Council's ranking protocol. Reporting will include a summary of water quality throughout

the year, a trend analysis, comparison to any WMO water quality standards, and recommendations. Data will be submitted to the MPCA EqUIS database.

Lake Level Monitoring

Lake elevations will be monitored with volunteer assistance on major recreational lakes. Lake level data assists with resolving water level disputes, determining flood elevations, groundwater to surface water recharge relationships, surficial groundwater fluctuations, flows and trends, and local zoning (such as floodplain and shoreland).

Readings will be taken by volunteers weekly during ice-out conditions. The fee to coordinate volunteer lake level monitoring covers the costs of:

- Installing and surveying the lake gauges,
- Coordinating the volunteers, such as by providing equipment and datasheets,
- Troubleshooting problems such as moving gauges in low or high water conditions, and
- Receiving the data, checking its quality, and submitting it to state databases.

All data collected will be made publicly available through the MN DNR website.

Rum River Water Quality Monitoring

The Rum River will be monitored by grab samples on eight occasions during non-ice conditions (generally April-Oct). Four occasions will be following storms, generally larger storms of 1" or more in 24 hr or a similar combination of snowmelt and rain. The remaining four samples will be taken during baseflow conditions. A staff gauge will be installed and surveyed to sea level so water elevation during each sampling can be recorded, except for the Rum River which will utilize water level data from the Metropolitan Council or USGS. Parameters tested will include total phosphorus, total suspended solids, pH, conductivity, turbidity, temperature, dissolved oxygen, and water level. Reporting will include an analysis of water quality, graphs, and recommendations. Data will be submitted to the MPCA's EQuIS database.

Student Stream Biomonitoring

This program is educational outreach that occurs buy engaging high school classes in river monitoring by monitoring river water quality by assessing aquatic insect populations. Students from Anoka High School will collect macroinvertebrate samples from the Rum River. The ACD will facilitate this process by providing:

- Sampling gear,
- Guidance before, during and after sampling,
- Quality assurance procedures on the samples,
- Collection of supplemental data including temperature, dissolved oxygen, pH, conductivity, salinity, and turbidity,
- Analysis and reporting,
- And will make the data available to the public and resource management agencies.

The school is expected to participate in sampling in either May or October. Sampling will be timed to best coordinate with the class' academic schedule. If for some reason the school is unable to do any sampling, then the ACD staff will do the sampling for the same fee or will apply the fees paid as a credit toward future work, at the direction of the LRRWMO Board.

Reference Wetland Hydrology Monitoring

Install and maintain an electronic water level monitoring devices at reference wetlands within the watershed. Well depths shall be 40 inches minimum and be located at the delineated boundary of established reference wetlands. Reference wetlands are long term monitoring stations to aid in understanding of water conditions in wetlands. These data aid understanding surficial water table changes and trends, as well as in regulatory determinations (for example, is a dry area actually a wetland, or are all wetlands dry right now?) and resolving water level disputes. Fee shall cover:

- Equipment,
- Installation and end-of-season equipment removal,
- Periodic downloading,

- Data management, and
- Reporting.

LRRWMO Website Maintenance

The ACD will maintain the WMO website. The WMO website contains information about the LRRWMO and results of WMO activities. The fee includes an annual maintenance fee plus additional item-by-item charges for web page updates.

Annual maintenance fee	$425
Domain registration	$35
Post mtg agendas ($10/ea x 12)	$120
Post mtg minutes ($10/ea x 12)	$120
Post late additions of agendas, packets or minutes ($10 x 6)	$60
Hosting fee	$200
TOTAL	$960

Website policies - It is the LRRWMO's responsibility to provide the ACD with meeting agendas, minutes, and other materials for web posting in a digital format. All items posted on the website will be remain until replaced by more recent information, both the ACD and LRRWMO decide to remove the information, or at the ACD's discretion after 2 years, whichever comes first. The ACD reserves the *right to exclude any material from the website; clients will only be charged for material pos*ted. The ACD reserves the right to determine the format of the posted information, which will typically be either html or pdf.

Newsletters

The ACD will write two newsletter articles or infographics to be released to LRRWMO member cities. Contact information for the LRRWMO in accordance with MN Rules 8410 shall be included, as well as the LRRWMO logo.

Due to space limitations each article will likely be 5 paragraphs or less, or a single infographic may be used. Failure of cities to print the article does not constitute a failure to perform by the ACD.

Other Activities

Additional detail is not provided for additional activities. See the Work Plan table.

ANOKA CONSERVATION DISTRICT
1318 McKay Drive NE, Suite 300
Ham Lake, MN 55304
Phone: (763) 434-2030 Fax: (763) 434-2094
www.AnokaSWCD.org

To: **LRRWMO Board**
CC: **Matt Danzl, Barr Engineering**
From: **Becky Wozney, Anoka Conservation District**
Date: **2/2/2024**
Re: **Adoption of Resolution for Wetland Conservation Act (WCA) Administration**

The current resolution (93-2) adopted for the administration of the permanent rules of the WCA is not sufficient because:

- It doesn't clarify if the Board of Managers or their designee have the authority to make decisions
- mentions the City of Coon Rapids; which is no longer necessary

There are two options for the Board to make decisions pertaining to the Wetland Conservation Act. Remember, all Notices of Application and Notices of Decision (consultant and/or board) are properly noticed and decisions can be appealed by the public for up to 30 days. Any member of the public can request to be noticed on all applications if they so desire.

- Designate all of the WCA-related decisions to the Board. This can delay some projects because they cannot start planning until they know where wetlands are located. This does potentially provide transparency to projects but generally the public does not become aware of projects until they are on their city meeting agenda. At that point, the delineation has been approved and civil plans are being discussed.
- Designate that exemption, no-loss, wetland boundary and type decisions to be made by your designated consultants. This is more stream-lined for applicants but does not provide as many options for public discourse.

I have included both Resolutions for your review.

A RESOLUTION REGARDING THE ADMINISTRATION OF THE MINNESOTA WETLAND CONSERVATION ACT

Lower Rum River Watershed Management Organization (LRRWMO)
Resolution 2024-1

WHEREAS, LRRWMO has accepted the authority and administrative responsibility to implement the Wetland Conservation Act (WCA) within the legal boundaries of the LRRWMO in accordance with Minnesota Rules, Chapter 8420; and

WHEREAS, the LRRWMO is authorized by Minnesota Administrative Rules Part 8420.0200, Subpart 2, Item C, to delegate certain functions with regard to implementation of WCA, including the authority to make decisions on applications, with its staff.

THEREFORE; BE IT RESOLVED by the LRRWO Board of Managers; that decision-making authority for WCA for exemption, no-loss, wetland boundary and type, sequencing, replacement plan, and wetland banking applications is placed with the Board of Managers of the Lower Rum River Watershed Management Organization.

Adopted this _____ day of _____, 20___.

By: _____
Chair of the LRRWMO

Resolution No. 2024-1: Offered by {*Commissioner*[1]} _____, seconded by {*Commissioner*[1]} _____, adopted by a vote of _____ at the regular meeting of the {*Board of Managers*} of {*LGU Name*} on {*Date*}.

Attest: _____
{*Staff Name*}
{*Position Title*}

A RESOLUTION REGARDING THE ADMINISTRATION OF THE MINNESOTA WETLAND CONSERVATION ACT

Lower Rum River Watershed Management Organization (LRRWMO)
Resolution 2024-1

WHEREAS, LRRWMO has accepted the authority and administrative responsibility to implement the Wetland Conservation Act (WCA) within the legal boundaries of the LRRWMO in accordance with Minnesota Rules, Chapter 8420; and

WHEREAS, the LRRWMO is authorized by Minnesota Administrative Rules Part 8420.0200, Subpart 2, Item C, to delegate certain functions with regard to implementation of WCA, including the authority to make decisions on applications, with its staff.

THEREFORE; BE IT RESOLVED by the LRRWO Board of Managers; that decision-making authority for WCA (*exemption, no-loss, wetland boundary and type)* applications is placed with the Wetland Specialist with our designated consultant.

Adopted this _____ day of _____, 20___.

By: _____
Chair of the LRRWMO

Resolution No. 2024-1: Offered by {*Commissioner*[1]} _____, seconded by {*Commissioner*[1]} _____, adopted by a vote of _____ at the regular meeting of the {*Board of Managers*} of {*LGU Name*} on {*Date*}.

Attest: _____
{*Staff Name*}
{*Position Title*}

Lower Rum River Watershed Management Organization Task Checklist

Key to Symbols X = Task completed Empty box = task planned but not yet completed Black box = Task not planned for that entity or at that time.

EDUCATION	2022						2023						2024						2025					
Task	**ACD**	**Andover**	**Anoka**	**Ramsey**	**LRRWMO**	**Other**	**ACD**	**Andover**	**Anoka**	**Ramsey**	**LRRWMO**	**Other**	**ACD**	**Andover**	**Anoka**	**Ramsey**	**LRRWMO**	**Other**	**ACD**	**Andover**	**Anoka**	**Ramsey**	**LRRWMO**	**Other**
ED-1 Website Administration – Maintain and post WMO news, meeting dates, permit apps and other documents. Provide links to cities and partners. Check monthly for agenda and meeting minutes.	Ongoing						Continuous updates including minutes						Ongoing incl. updates to Contacts and uploading minutes											
"X" when completed	X				X		X				X													
ED-2 Develop Education and Outreach Plan-Work with ACD to develop planned activities for the ACD Education and Outreach Coordinator in support of LRRWMO goals	Completed.						ACD did include in their budget for 2024.						Hiring process has begun for a Education Specialist											
	X				X		X				X													
ED-3 Education Coordinator Actions in Support of Education Plan-Support a county-wide position housed at ACD													Hiring process has begun for a Education Specialist											
Ongoing																								
ED-4 Newsletter - Distribution of education material biannually, fostering water quality management practices in Community newsletters, specifically addressing wetland regulation from time to time.	X	X	X	X	X		X	X	X	X	X													
ED-5 TAC and CAC coordination – Utilize technical and citizen advisory committees on an occasional, as-needed basis.	8/2022 CAC mtg to create outreach plan						Once Ed Specialist in place will implement for 2024.						Hiring process has begun for a Education Specialist											
Ongoing																								
ED-6 Rum River boat tours-host a boat tour of the Rum River for government officials, city staff, and new managers.							Will be reconsidered for summer, 2024						Started planning											
							N A																	
ADMINISTRATION																								
AD-1 General Administration – includes services of contracted administrator as well as recording, financial, and legal services as needed.													Ongoing											
Ongoing	X					X	X					X												
AD-2 Annual Reporting to State. Submit annual reports to BWSR and the State Auditor.													Collecting information has begun											
"X" when completed	X				X		X				X													
AD-3 Biennial Progress Review																								
X" when completed							**X**				**X**													
AD-4 Grant Review and Application –	ACD submitted LSOHC application for Rum Riverbank stabilizations						ACD applied for $500000 CWF Funds but we were 1 point short of receiving funding.						Submit a more focused CWF application for Rum River in 2024											
"X" when completed	X						X																	
AD-5 Review Funding Mechanisms- LRRWMO will annually review its Watershed Management Plan to ensure it reflects current goals and is appropriate																								
"X" when completed				X							X													
Solicit Bids - LRRWMO will solicit bids for professional services (solicit proposals for work to occur in the following year)							Completed.						Process will start soon											
"X" when completed											X													

Checklist created by Barr Engineering. Reformatted by ACD 1-2014.

Lower Rum River Watershed Management Organization Task Checklist

WATER MONITORING AND IMPROVEMENT	2022						2023						2024						2025					
	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other
Task																								
MN-1 Lake WQ Monitoring							100% complete (report left)						Hiring seasonal staff soon. Report this month											
"X" when completed	X				X		X				X													
MN-2 Lake Level Monitoring																								
"X" when completed	X				X		X				X													
MN-3 Rum River WQ Monitoring																								
"X" when completed	X				X		X				X													
MN-4 Stream Bio Monitoring-Macroinvertebrate monitoring on the Rum Rier facilitated by ACD and local schools.																								
"X" when completed	X					X						X												
MN-5 Wetland Monitoring-Wetland hydrology monitoring performed annually at 3 locations in the WMO																								
"X" when completed	X						X																	

PROJECTS/PROGAMS	2022						2023						2024						2025					
	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other	ACD	Andover	Anoka	Ramsey	LRRWMO	Other
Our manager addressed the county board in regarsds to funding a groundwater specialist. There was good discussion but there are other high priority items as well. We are waiting for their final budget. It is likely a groundwater specialist will not happen next year.																								
PP-1 Cost-share grant small projects-fund grants for WQ improvement including shoreland restoration et al	X				X		X				X													
PP-2 Rum River Streambank Restoration-fund projects to reduce phosphorus/sediment loading to the Rum River.	X				X		X				X													
PP-3 Mississippi River Streambank Restoration-fund and implement projects to reduce phosphorus/sediment to Mississippi	X				X		X				X													
PP-4 Ramsey Central Park Stormwater (non-WBIF)	LRRWMO advised Ramsey plans																							
				X																				
PP-5 Support for Rum River 1W1P projects located upstream- provide written support											X													
PP-6 Subwatershed Analyses of City of Andover draining to Rum River-Conduct studies to assess pollutant	Funding secured. 2023 work						X				X													
	X	X																						
PP-7 Trott Brook Study (WBIF)							X			X	X													
PP-8 Install stormwater retrofits at priority sites identified by SWAs	X						X																	
PP-9 Wetland Restoration support for partners in priority areas	WBIF funding secured						X	ACD has reached out to landowners						Potential wetland restoration in LRR										
PP-10 Groundwater Planning and Technical Assistance						X						X												

LAST UPDATED: 2/6/2024

Checklist created by Barr Engineering. Reformatted by ACD 1-2014.

Cities. Any credits may be applied to the cost allocation of the improvement project under construction or the Board, if feasible and necessary, may defer said credits to a future project.

10a. If any Member City refuses to negotiate or condemn lands as ordered by the Board, any other Member City may negotiate or condemn outside its corporate limits in accordance with Minnesota Statutes, Chapter 117. All Member Cities agree that they will not condemn or negotiate for land acquisition to pond or drain storm and surface waters within the corporate boundaries of another Member City within the Lower Rum River Watershed except upon order of the Board. Needs review by WMO attorney.

10b. The LRRWMO shall have authority to establish land acquisition policies as a part of the overall plan. Needs review by WMO attorney.

Subdivision 11. Pollution Control and Water Quality. The LRRWMO shall have the authority and responsibility to protect and improve water quality in the Watershed as this is one of the main purposes set forth in the Surface Water Management Act. All Member Cities agree that they will refuse to allow the drainage of sanitary sewage or industrial wastes onto any lands or into any water course or storm sewer draining into the Rum River or Mississippi River. The Board may investigate on its own initiative and shall investigate upon petition of any Member City all complaints relating to pollution of surface water or ground water draining to or affecting the Rum River or the Mississippi River or their tributaries. Upon a finding that the creek or surface waters or groundwater are being polluted, the Board shall order the Member City to abate this nuisance and each Member City agrees that it will take all reasonable action available to it under the law to alleviate the pollution and to assist in protecting and improving the water quality of surface water and groundwater in the Watershed. Needs review by WMO attorney-is this required?

Subdivision 12. Local Water Management Plans. The LRRWMO shall have power and authority to review the Member Cities' local water management plans, capital improvements relating to surface water management programs and official controls required by Minnesota Statutes, Section 103B.235 and/or by rules promulgated and adopted by the Board of Water and Soil Resources. No changes recommended.

FINANCES
VIll.

Subdivision 1. The LRRWMO funds may be expended by the Board in accordance with this agreement and in accordance with the procedures as established by law and as may be determined by the Board. The Board shall designate one or more national or state bank or trust companies, authorized by Minnesota Statutes, Chapters 118 and 427 to receive deposits of public moneys and to act as depositories for the LRRWMO funds. In no event shall there be a disbursement of LRRWMO funds without the signature of at least two Board members, one of whom shall be the Treasurer or Authorized Deputy Treasurer. The Treasurer shall be required to file with the Secretary of the Board a bond in the sum of at least $10,000 or such higher amount

as shall be determined by the Board. The LRRWMO shall pay the premium on said bond. No changes recommended.

Subdivision 2. Each Member City agrees to contribute each year to a general fund, said fund to be used for general administration purposes including, but not limited to: salaries, rent, supplies, development of an overall plan, engineering and legal expenses, insurance, and bonds, and to purchase and maintain devices to measure hydrological and water quality data, Said funds may also be used for normal maintenance of the facilities, but any extraordinary maintenance or repair expense shall be treated as an improvement cost and processed in accordance with Subdivision 5 of this Article. The annual contribution by each Member City shall be based fifty percent (50%) on the net tax capacity of all property within the Watershed and fifty percent (50%) on the basis of the total area of each Member City within the boundaries of the Watershed each year to the total area in the Lower Rum River Watershed governed by this Agreement. No changes recommended.

Subdivision 3.

(a) An improvement fund shall be established for each improvement project instituted under Article VIl, Subdivision 4. In all cases in which capital improvements are to be paid in whole or in part by Member Cities, each Member City agrees to contribute to said fund its agreed-upon proportionate share of the engineering, legal and administrative costs as determined in accordance with Article VIl, Subdivisions 4 and 5 as the amount to be assessed against each Member City as a cost of the improvement. The Board shall submit in writing a statement to each Member City, setting forth in detail the expenses incurred by the LRRWMO for each project. Each Member City further agrees to pay to or contract with the Member City awarding said contract for the improvement, its agreed-upon proportionate share of the cost of the improvement in accordance with the determination of the Board under Article VIl, Subdivisions 4 and 5. The Member City awarding the contract shall submit in writing copies of the engineer's certificate authorizing payment during construction and the Member City being billed agrees to pay its proportionate share of said improvement costs within 30 days after receipt of the statement. The Member City awarding the contract shall advise other contributing Member Cities of the tentative time schedule of the work and the estimated times when the contributions shall be necessary.

(b) The LRRWMO and Anoka County may establish a maintenance fund to be used for normal and routine maintenance of an improvement constructed in whole or in part with money provided by Anoka County pursuant to Minnesota Statutes, Section 103B.251. The levy and collection of an ad valorem tax levy for maintenance shall be by Anoka County based upon a tax levy resolution adopted by a majority vote of all eligible Commissioners and remitted to the County on or before the date prescribed by law each year. If it is determined to levy for maintenance, the LRRWMO shall be required to follow the hearing process established by Minnesota

Statutes, Sections 1031).915 and 1031).921. Mailed notice shall be sent to the Clerk of each Member City at least 30 days prior to the hearing.

Reviewed by Cities and WMO attorney.

Subdivision 4. On or before July 1 of each year, the Board shall adopt a detailed budget for the ensuing year and decide upon the total amount necessary for the general fund. Budget approval shall require a favorable vote by a majority of all eligible votes of the then existing Commissioners.

4a. The secretary of the Board shall certify the budget on or before July 1 to the Clerk of each Member City together with a statement of the proportion of the budget to be provided by each Member City.

4b. The Council of each Member City agrees to review the budget, and the Board shall upon notice from any Member City received prior to August 1, hear objections to the budget, and may, upon notice to all Member Cities and after a hearing, modify or amend the budget, and then give notice to the Member Cities of any and all modifications or amendments.

4c. Each Member City agrees to provide the funds required by the budget and said determination shall be conclusive if no Member City enters objections in writing on or before August 1. If no objections are submitted to the Board, each Member City agrees to provide the funds approved by the Board, after the Board has conducted the aforementioned hearing. Modifications or amendments to the original budget require a favorable vote by a majority of all eligible voters of then existing Commissioners.

4d. The schedule of payments by the Member Cities shall be determined by the Board in such a manner as to provide for an orderly collection of the funds needed.

4e. Upon notice and hearing, the Board by a favorable vote of a majority of all eligible votes of then existing Commissioners may adopt a supplemental budget requiring additional payments by the Member Cities within 60 days of its adoption but in no event shall the budget require any Member City to contribute in excess of one half of one percent of the net tax capacity of all taxable property within the Watershed and within the Member City's corporate boundaries in any one calendar year.

4f. Member Cities' attention is drawn to Minnesota Statutes, Section 103B.245, which authorizes a Watershed Management Tax District to be created within each Member City to pay the costs of planning and for the purpose of paying capital costs and/or normal and routine maintenance of facilities.

Reviewed by Cities and WMO attorney.

Subdivision 5. Cost Allocation. General costs of operating the LRRWMO shall be as set forth in Article VIll, Subdivision 2. Costs of capital projects to be paid by Member Cities will be determined in accordance with Articles VII, Subdivisions 4 and 5 and paid in accordance with Article VIll, Subdivision 3. No changes recommended.

MISCELLANEOUS PROVISIONS rx.

Subdivision 1. The LRRWMO shall not have the power to issue certificates, warrants or bonds. No changes recommended.

Subdivision 2. The LRRWMO shall not have the power of eminent domain and shall not own any interest in real property. All interests in lands shall be held in the name of the Member City wherein said lands are located. No changes recommended.

Subdivision 3. The LRRWMO shall not have the power to levy a special assessment upon any privately or publicly owned land. All such assessments shall be levied by the Member City wherein said lands are located. The LRRWMO shall have the power to require any Member City to contribute the costs allocated or assessed according to the other provisions of this agreement. No changes recommended.

Subdivision 4. Each Member City agrees that it will not directly or indirectly collect or divert any additional surface water to the Lower Rum River or the Mississippi River or their tributaries from any subdistrict or subtrunk without a permit from the Board. Permits may be granted by the Board for a Member City to proceed with the construction or reconstruction of improvements within the Member City's boundaries and at its sole cost upon a finding:

(1) that there is an adequate outlet;
(2) that said construction is in conformance with the overall plan;
(3) that the construction will not adversely affect other Member Cities.

Should be reviewed by Member Cities.

Subdivision 5. Any Member City that is more than 60 days in default in contributing its share to the general fund shall have the vote of its Commissioner suspended pending the payment of its proportionate share.

5a. Any Member City that is more than 60 days in default in contributing its proportionate share of the cost of any improvement to the contracting Member City shall upon application of the contracting Member City have the vote of its Commissioner suspended, pending the payment of its proportionate share.

5b. Any Member City whose vote is under suspension shall not be considered as an eligible Member City as such membership affects the number of votes required to proceed on any matter under consideration by the Board. No changes recommended.

Subdivision 6. Enforcement. Member Cities agree to be bound by the determination of the Commission and to agree to use their best efforts to carry out directives from the Commission; failure to respond may result in a legal action by the Commission to require the Member City to act under a court order. No changes recommended.

DURATION
X.

Subdivision 1. Each Member City agrees to be bound by the terms of this agreement until January 1, 2025, and it may be continued thereafter at the option of the Member Cities. Changed to January 1, 2035 unless WMO attorney suggests a different date.

Subdivision 2. This agreement may be terminated prior to January 1, 2025, by the unanimous consent of the Member Cities or if for any reason the LRRWMO is reduced to less than three Member Cities. If the agreement is to be terminated, a notice of the intent to dissolve the LRRWMO shall be sent to the Board of Water and Soil Resources and to Anoka County at least 90 days prior to the date of dissolution.

Subdivision 3. In addition to the manner provided in Subdivision 2 for termination, any Member City may petition the Board to dissolve the agreement. Upon 30 days' notice in writing to the Clerk of each Member City and the Board of Water and Soil Resources and Anoka County, the Board shall hold a hearing and upon a favorable vote by a majority of all eligible votes of then existing Commissioners, the Board may by Resolution recommend that the LRRWMO be dissolved. Said Resolution shall be submitted to each Member City and if ratified by two-thirds of the Councils of all Member Cities within 60 days, said Board shall dissolve the LRRWMO allowing a reasonable time to complete work in progress and to dispose of personal property owned by the LRRWMO. No changes recommended.

DISSOLUTION

Upon dissolution of the LRRWMO, all property of the LRRWMO shall be sold and the proceeds thereof, together with monies on hand, shall be distributed to the eligible Member Cities. Such distribution of LRRWMO assets shall be made in proportion to the total contribution to the LRRWMO as required by the last annual budget. No changes recommended.

EFFECTIVE DATE

This agreement shall be in full force and effect upon the filing of a certified copy of the resolution approving said agreement by all three Member Cities, for the Lower Rum River Watershed area to be governed by this Agreement. Said resolution shall be filed with the City Manager of the City of Anoka, who shall notify all Member Cities in writing of its effective date. The effective date of the new amended Joint Powers Agreement shall be when approved by

all the Member Cities and when the Mayor and other authorized City representatives have executed the amended agreement. No changes recommended.

IN WITNESS WHEREOF, the undersigned governmental units, by action of their governing bodies, have caused this agreement to be executed in accordance with the authority of Minnesota Statutes, Sections 103B.211 and 471.59.

Approved by the City Council

September 2, 2014

CITY OF ANDOVER

By: _____

Attest: _____

Approved by the City Council

Dated: July 7, 2014

CITY OF ANOKA

By: _____

Attest: _____

Approved by the City Council

August 26, 2014

CITY OF RAMSEY

By: _____

Attest: _____