

City of Longville

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September 22, 2026

Sarah Strommen, Commissioner
Minnesota Department of Natural Resources
500 Lafayette Road
St. Paul, MN 55155-4040

***Re: Girl Lake Outlet / Boy River Rock Arch Rapids Project
Request for Immediate Interim Corrective Action Pending Completion of Independent
Engineering Review***

Dear Commissioner Strommen:

The City of Longville respectfully requests that the Minnesota Department of Natural Resources take immediate interim action to prevent continued discharge from Girl Lake through portions of the recently constructed rock arch rapids structure that are substantially below the intended outlet control elevation and the former low-water runout condition.

This request follows completion of the field survey undertaken as Phase I of the City's independent engineering review. The survey has identified a condition that, in the City's judgment, warrants prompt action while the more comprehensive Phase II engineering review proceeds. Attached please find two photographs showing the field survey results.

Phase I Survey Identifies Substantially Lower Discharge Paths. The Phase I survey confirms that the principal center crest rock is near and just below the intended design elevation. The surveyed elevation at that location is approximately 1322.54 feet NAVD88.

The survey, however, also identifies substantially lower elevations immediately adjacent to and between the crest rocks through which water is presently flowing. Surveyed elevations at these locations include approximately 1321.63, 1321.67, 1321.99, and 1322.03 feet NAVD88. The attached photographs depict both the surveyed elevations and the actual flow of water through these lower portions of the structure.

The significance is apparent. Although the nominal center crest is near the intended elevation, the center crest is not presently functioning as the effective low-water hydraulic control of the outlet. Water is instead continuing to discharge through lower openings and flow paths, including locations approximately ten to eleven inches below the nominal center crest elevation.

Of particular concern, these lower discharge paths extend below the former low-water runout condition. Thus, at lake elevations at which discharge through the former outlet would have been substantially

reduced or ceased, the reconstructed outlet permits water to continue leaving the lake through the lower portions of the rock arch rapids.

The Present Condition Warrants Immediate Interim Action. This is no longer simply a question concerning the ultimate engineering design of the outlet. The Phase I work has identified a present physical condition that is allowing continued discharge at elevations substantially below the nominal crest.

Water leaving the lake through these lower pathways cannot be recovered during the present low-water conditions. Continued discharge while the remaining engineering work is performed therefore risks additional and potentially avoidable drawdown of Girl Lake and the connected lake system.

The City recognizes that the permanent configuration of the outlet should be determined through sound engineering analysis. That is precisely why the City initiated an independent review. But the need for careful study of a permanent solution should not require the lakes to continue losing water through a condition that can be addressed on an interim and reversible basis.

City's Request for Temporary and Reversible Measures. The City therefore respectfully requests that DNR promptly inspect the surveyed conditions and undertake, authorize, or arrange appropriate temporary and reversible measures to prevent continued discharge through the identified sub-crest openings and low points.

The City is not requesting that DNR establish a new lake level, permanently redesign the rock arch rapids, or prejudge the conclusions of the independent engineering review. Nor is the City presently prescribing the particular engineering method that should be employed.

Rather, the City asks DNR and the appropriate engineers to determine the most expeditious means of temporarily controlling the lower discharge paths. Depending upon engineering judgment and field conditions, temporary measures might include sandbags, temporary barriers, plugging or covering particular openings, or another reversible means of preventing discharge below the appropriate low-water control elevation.

The objective is straightforward: preserve existing lake water by preventing avoidable discharge through the newly identified low points while the permanent engineering analysis is completed.

Phase II Independent Engineering Review Will Proceed. The requested interim action is not a substitute for the City's independent engineering review.

Following receipt and documentation of the Phase I findings, the City intends to proceed with Phase II, under which its independent engineer will evaluate the structure, available historical and design information, relevant hydrology and hydraulics, and alternatives for an appropriate permanent solution.

Temporary corrective measures can remain in place, subject to appropriate monitoring and adjustment, while that work proceeds. Once Phase II is completed, the City, DNR, and other responsible entities will have a more complete engineering record upon which to evaluate the appropriate permanent configuration of the outlet.

This two-step approach protects the resource now without prejudging the ultimate engineering solution.

Request for Prompt DNR Response. Minnesota law places administration of the use and control of waters of the state, including the establishment, maintenance, and control of lake levels, with the Commissioner. Minn. Stat. § 103G.255. The Commissioner also has authority to examine dams and control structures and, where the statutory criteria are met, require repair or alteration. Minn. Stat. § 103G.515. Section 103G.251 further authorizes investigation and monitoring of activities, whether conducted with or without a permit, that may affect waters of the state.

Given the documented elevations and the continuing discharge, the City respectfully requests that DNR treat this matter as requiring prompt field review and interim response rather than awaiting completion of the Phase II process.

Specifically, the City requests that DNR:

1. promptly review the Phase I survey information and attached photographs;
2. inspect the outlet conditions with the City's engineer;
3. identify and implement, authorize, or arrange an appropriate temporary and reversible means of preventing continued discharge through the identified low points; and
4. coordinate with the City and its independent engineer while Phase II proceeds.

Because water continues to leave the lake, time is material. The City therefore respectfully requests that DNR acknowledge this request promptly and advise the City as soon as possible and by Friday, September 25, concerning arrangements for a site inspection and the Department's proposed interim response.

The City appreciates the Commissioner's prior attention to this matter and DNR's cooperation with the City's independent review. The Phase I information now provides objective field data that was not previously available. The City believes that information warrants immediate, limited, and reversible action to protect the lake system while the independent engineering process proceeds to Phase II.

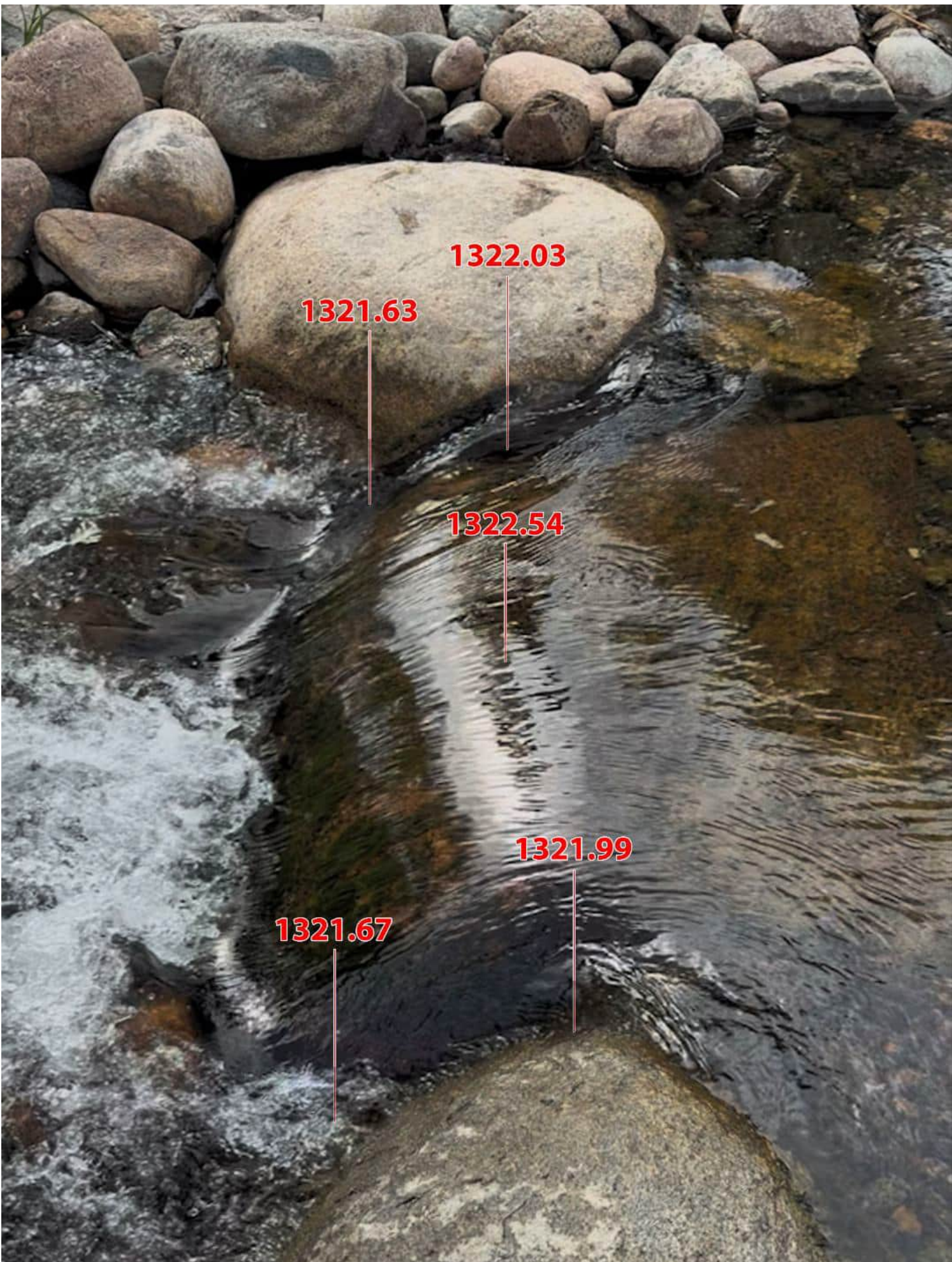
Sincerely,

Floyd "Jocko" Kline
Mayor

Christina Herheim
City Clerk

cc: Andrew Shaw, City Attorney
Nathan Kestner, Minnesota DNR





1321.63

1322.03

1322.54

1321.99

1321.67

ELEVATION AND STREAM DISCHARGE MEASUREMENT REPORT

Woman Lake Chain of Lakes

Cass County, Minnesota

This report summarizes surface elevations collected by Northeast Technical Services, Inc. (NTS) on September 21, 2026 at the Girl Lake Outflow at the request of Mr. Jeff Davis of Woman Lake Action. Field notes are attached to this report as Appendix A.

1. Location

- Girl Lake Outflow Rock Archway Rapids (RAR)
- First Pool below RAR weir
- Upstream Channel ~4 yards upstream of RAR

2. Reported Results

Results are presented in Table 1.

Table 1. Surface Elevation Measurements, 21 September 2026

#	Location	Elevation (ft)
1	MNDOT Station 1111Q	1328.13
2	RAR Weir Crest	1322.54
3	RAR Weir Adjacent NE Channel	1321.99
4	RAR Weir Adjacent NE Channel downstream	1321.67
5	RAR Weir Adjacent SW Channel	1322.03
6	RAR Weir Adjacent SW Channel downstream	1321.63
7	RAR SW Side Channel	1322.75
8	RAR NE Side Channel	1322.74
9	Upstream RAR Channel Bottom Elevation	1321.99
10	Upstream RAR Surface Water	1323.15
11	First Pool Centerline	1319.77
12	First Pool Surface Water	1322.20

3. Technology & Methodology

Elevation measurements were collected using a Trimble R8S high accuracy GNSS device with GPS, GLONASS, Galileo, BeiDou, QZSS, and SBAS satellite tracking. The Trimble accuracy was verified at MNDOT Station 1111Q in Longville, MN, with horizontal accuracy of 0.019' and vertical accuracy of 0.03'.

Appendix A

Location Woman Lake Chain Date 9/21/26Project / Client _____ Page 1 of 6Project: 23644Personnel: L. YuretichWeather: Partly Cloudy, High 61°F, S-10 mph E WindEquipment: VT63 (209 miles), EG-03C, EQ-06H

0715 Arrive at NTS Office, Prepare Equipment

0900 ~~Start~~ Different Project

1032 Depart NTS Office

1245 Arrive at Longville, MN

1300 111Q Benchmark Elevation: 1328.132'HRMS: 0.019VRMS: 0.030

1310 Begin obtaining elevations at Girl Lake Dam

1st Weir Rock Crest: 1322.544' HRMS: 0.040 VRMS: 0.0611st Weir NE Depression: 1321.990' HRMS: 0.043 VRMS: 0.0671st Weir SW Depression LT 9/21/26~~1st Weir SW Depression Downstream~~1st Weir SW Depression: 1322.025' HRMS: 0.040 VRMS: 0.0641st Weir SW Depression Downstream: 1321.626'HRMS: 0.044VRMS: 0.0691st Weir SW Side Channel: 1322.751'HRMS: 0.037VRMS: 0.0611st Weir NE Side Channel: 1322.741'HRMS: 0.043VRMS: 0.065

[NEXT PAGE]

Location Woman Lake Chain Date 9/21/26Project / Client _____ Page 2 of 6Project: 23644Personnel: L. Yuretich1st Weir NE Depression Downstream: 1321.670'HRMS: 0.040VRMS: 0.068Upstream Substrate Elevation: 1321.990'HRMS: 0.042VRMS: 0.076Upstream Surface Water Elevation: 1323.151'HRMS: 0.040VRMS: 0.0731st Pool Centerline: 1319.771'HRMS: 0.038VRMS: 0.0621st Pool Surface Water Elevation: 1322.198'HRMS: 0.036VRMS: 0.060

* Due to poor precision while measuring elevations, five total recordings were measured at each site and the best HRMS/VRMS precision was recorded in the notes. Remaining data is available if needed.

[NEXT PAGE]

Location Woman Lake Chain Date 9/21/26Project / Client _____ Page 3 of 6Project: 23644Personnel: L. Yurelich1st Pool Stream Flow Flow Stream Width: 23'Step Size: 2'

<u>Step</u>	<u>Depth</u>	<u>20 Velocity, 80</u>
1.0	0.80	-0.43
3.0	0.80	-0.41
5.0	1.10	-0.33
7.0	2.00	1.72 / 0.49
9.0	2.25	
11.0		
13.0		
15.0		
17.0		
19.0		
21.0		

Cancel flow measurement, will
start over with more narrow
step to account for large variations in
velocity caused by weir pool

NEXT PAGELocation Woman Lake Chain Date 9/21/26Project / Client _____ Page 4 of 6Project: 23644Personnel: L. Yurelich1st Weir Pool Stream Flow ContinuedFlow Stream Width: 23' Step Size: 1'

<u>Step</u>	<u>Depth</u>	<u>20 Velocity, 80</u>	<u>Step</u>	<u>Depth</u>	<u>20 Velocity, 80</u>
0.5	0.60	-0.68	18.5	0.90	-0.06
1.5	0.90	-0.48	19.5	0.75	-0.02
2.5	0.90	-0.50	20.5	0.60	0.01
3.5	0.85	-0.28	21.5	0.30	-0.04
4.5	0.95	-0.25	22.5	0.05	0.00
5.5	1.20	-0.17			
6.5	1.70	0.70 / 0.24			
7.5	2.05	2.13 / 0.58			
8.5	2.00	2.65 / 1.73			
9.5	2.30	0.46 / 0.76			
10.5	2.10	0.42 / 0.07			
11.5	2.00	0.17 / -0.04			
12.5	1.75	-0.14 / -0.13			
13.5	1.50	-0.36 / -0.13			
14.5	1.15	-0.38			
15.5	1.05	-0.20			
16.5	1.00	-0.16			
17.5	1.00	-0.13			

NEXT PAGE

Location Women Lake Chain Date 9/21/26Project / Client _____ Page 5 of 6Project: 23644Personnel: L. Yuretich1535 Downstream of Girt Lake Dam Flow
Child Lake 9/21/26Flow: Stream Width: 39' Step Size: 2'

Step	Depth	Velocity	Step	Depth	Velocity
1.0	0.40	0.28	39.0		

LY 9/21/26

3.0 0.45 0.37

5.0 0.50 0.43

7.0 0.50 0.45

9.0 0.60 0.23

11.0 0.50 0.12

13.0 0.65 0.18

15.0 0.65 0.130

17.0 0.65 0.25

19.0 0.65 0.43

21.0 0.65 0.44

23.0 0.70 0.36

25.0 0.70 0.26

27.0 0.60 0.15

29.0 0.55 0.10

31.0 0.55 0.27

33.0 0.55 0.16

35.0 0.50 0.02

37.0 0.40 0.00

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24
9/21/26Location Women Lake Chain Date 9/21/26 101Project / Client _____ Page 6 of 6Project: 23644Personnel: L. Yuretich

1625 Depart Longville for NTS office

1820 Return to NTS office, Unbed Truck

[Signature]
9/21/26

Flow: Velocity(ft/s) | Depth(ft)
pH(su) | Temp(°C) | ORP(mV)
Turb(NTU) | DO(mg/L) | SPE(µs/cm)

LY
9/21/26

Rite in the Rain.

Daily Tailgate Safety

Project: 23644 Date: 9/21/26

Work Site Hazard Assessment Worksheet

- ☒ PPE Required (List): Hi-Viz Vest, Waders Level* D
- ☒ Weather Conditions (List): Partly Cloudy, High 61°F, 5-10 mph E Wind
- ☐ Vehicular Traffic ☐ Communications
- ☐ Noise ☐ Equipment/Tools
- ☐ Housekeeping ☐ Other Site Hazards**

- ☐ I have examined the work place named and found no hazards
- ☒ I have examined the work place named and hazards found are listed below with corrective action taken

Hazards Identified/Safety Items Discussed:

Slips/Trips/Falls

Chast Deep Water

Corrective Actions Taken:

Take careful steps

Wear Waders

Participants in Safety Discussion:

Print Name	Signature
1. <u>Logan Yuratic</u>	<u>Logan Yuratic</u>
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____

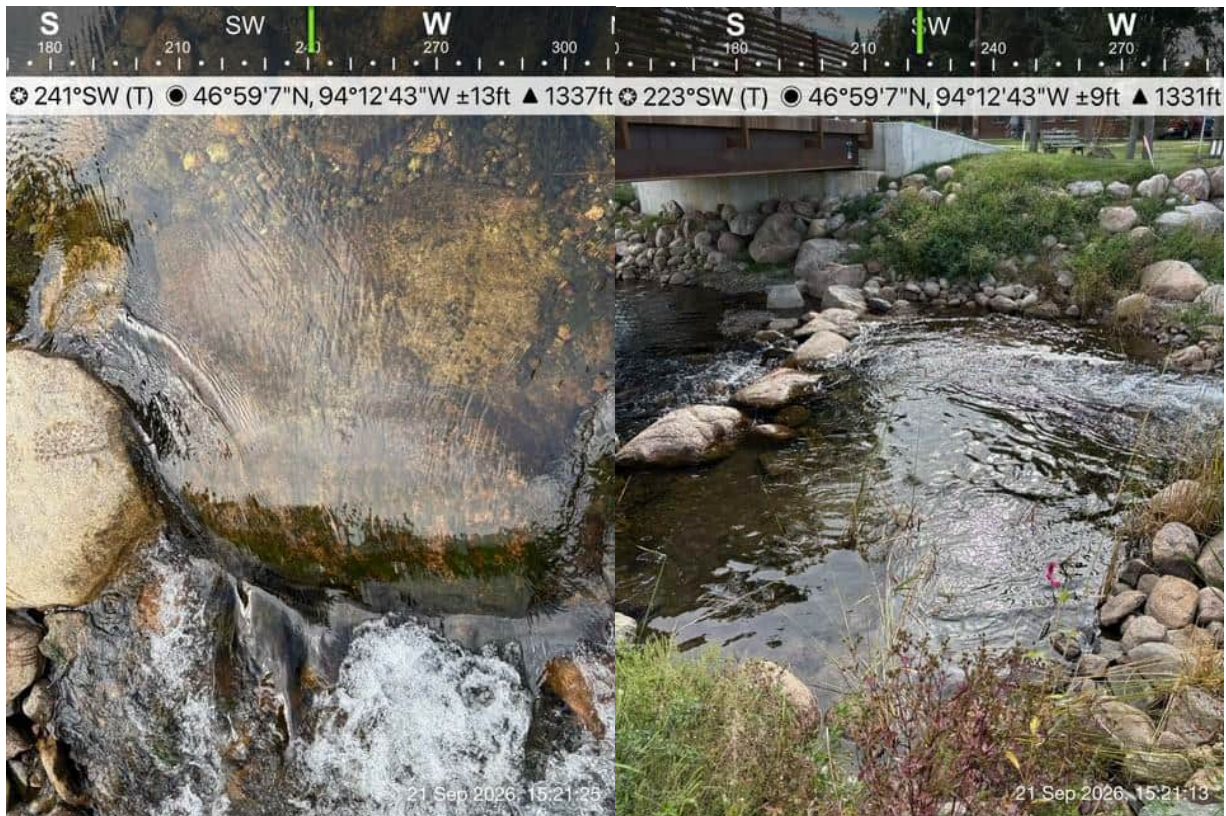
Signature of Site Supervisor/Examiner: Logan Yuratic Date: 9/21/26

*Level D, C, B or A

**Examples: Heavy Equipment, Air Quality, Flammable materials, Wildlife, Work Site Security, Confined Space

RAR Weir Overhead

First Pool



RAR Cross Section

Upstream RAR

