



Annual Report of Monitoring

Arrow Creek /Erickson Water System

Developed in accordance with the
British Columbia Drinking Water Protection Act

ERICKSON WATER SYSTEM	
Period of Monitoring Covered by this Report:	January 1 - December 31, 2025
Interior Health Permit to Operate Facility Number:	12-098-00381
EOCP Classification:	WD-II (Erickson) / WT-II (Arrow Creek)
IHA Permit:	Drinking Water System 301 - 10,000 Connections
Location of Water Supply System:	Erickson, BC

Contact Information:

Regional District of Central Kootenay
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1. Introduction

The Erickson Water System is located in the community of Erickson, just outside the eastern border of Creston, crossing the boundary of RDCK Electoral Areas B and C. The system services approximately 700 active connections and is the largest of the water systems managed by the RDCK. The Erickson Water System consists of two historic systems: Erickson Irrigation District that historically sourced water from Sullivan Creek, and the East Creston Irrigation District established in 1929 that sourced water from Arrow Creek. The two Irrigation Districts combined in 1980 to become the Erickson Improvement District. In 2003, the Ministry of Municipal Affairs dissolved the system's Board of Trustees and the system was converted to a RDCK service with a new treatment plant constructed on Arrow Creek in 2005.

As part of the British Columbia Provincial *Drinking Water Protection Act (2001)* and *Drinking Water Protection Regulation (2003)* an annual water system report to water users is required. This annual report summarizes information collected and recorded throughout the reporting period, and details additional relevant information to the water system.

2. Water Treatment Objectives

The provincial technical document *Drinking Water Treatment objectives (Microbiological) for Surface Water Supplies in British Columbia (2012)* provides performance targets for water suppliers to ensure the provision of biologically safe drinking water. Interior Health supports water suppliers to meet these objectives as risk to human health is substantially reduced. The general treatment objectives are:

- 4-log (99.99%) removal/inactivation of viruses
- 3-log (99.9%) removal/inactivation of Giardia and Cryptosporidium (oocysts)
- Two separate treatment processes (multi-barrier) for surface water supplies
- Turbidity less than 1 NTU (Nephelometric Turbidity Unit)
- Zero total and fecal coliforms (E. coli)

The Erickson/Arrow Creek water treatment plant supplies biologically safe drinking water to its users and achieves the above listed treatment objectives through various system components installed and maintained as part of the water treatment plant process.

3. Water System Overview

The Erickson Water System derives source water from Arrow Creek, which is classified as a Community Watershed. In 2005 a new water treatment plant was commissioned on Arrow Creek. This plant now serves the Erickson community as well as the Town of Creston. The treatment process begins with coarse screening, settling, and fine screening to reduce turbidity. Following this is membrane filtration for further turbidity reduction and physical removal of some microbiological components. Ultraviolet (UV) disinfection and chemical disinfection by chlorination are final treatments for microbiological components prior to water being released into the distribution system. A Supervisory Control and Data Acquisition (SCADA) system allows for remote plant monitoring, alarming, and operation.

4. Monitoring

The Erickson/Arrow Creek water system includes monitoring for bacteriological testing (total/fecal coliforms), turbidity, chlorine residual (free and total), consumption, and chemical constituents.

4.1 Bacteriological

Sampling is done from various locations within the distribution system. In addition to the certified lab sample testing, RDCK staff also conduct weekly in-house Coliform Presence/Absence testing. Tests for total and fecal coliforms are performed in accordance with the methods outlined in the Standard Methods for the Examination of Water and Wastewater (2005). Colony forming units (cfu) per 100 ml are determined for each sample. Twenty samples were taken in 2025 with one adverse result on June 3, 2025. The result was due to sampling error and re-sampled on June 11, 2025 with acceptable results.

4.2 Turbidity

Turbidity is measured on the Arrow Creek raw source water and post ultra-filtration water using both in-line and handheld turbidity meters. The Regional District targets a turbidity level post ultrafiltration treatment below 0.10 NTU. Turbidity exceeded the threshold on Aug 4, Sept 18, Sept 29 and, Sept 30. In all cases the portable test results showed permeate turbidity to be below the threshold. Figure 1 outlines raw water turbidity levels, and Figure 2 outlines permeate (treated) water turbidity levels. Comparing these two figures demonstrates the effectiveness of membrane filtration to reduce turbidity in source water.

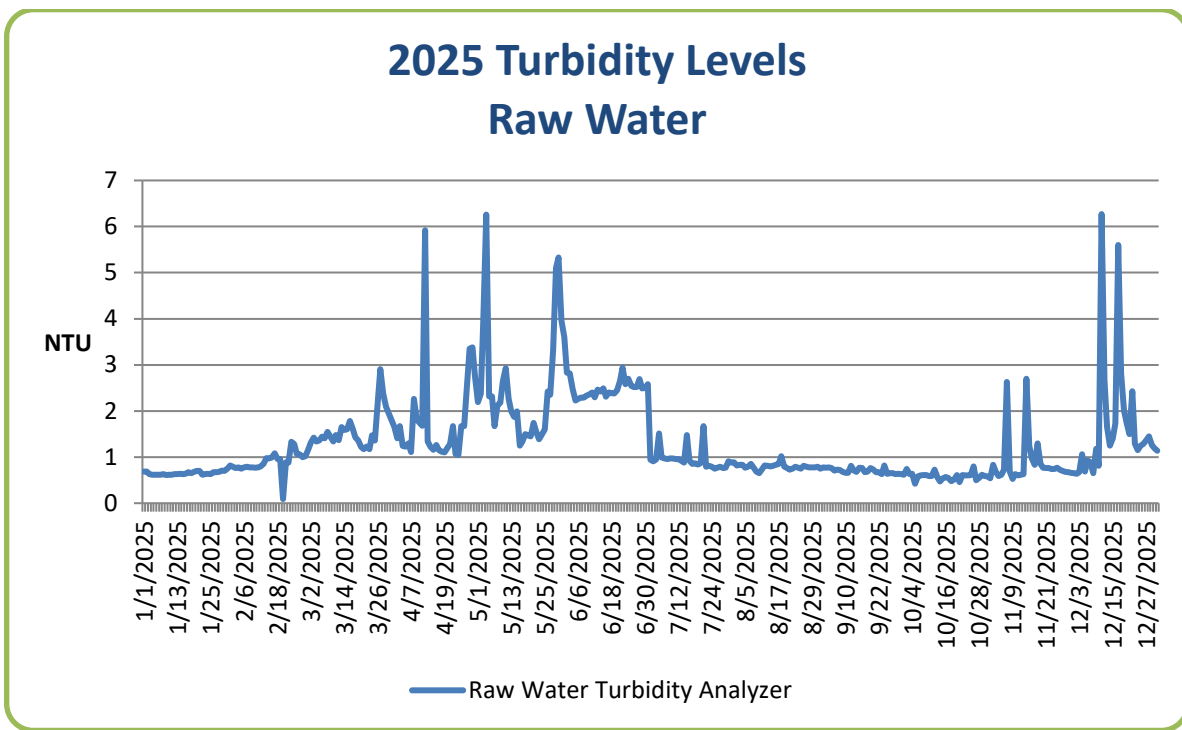


Figure 1 – Raw Water Turbidity Levels for Reporting Period

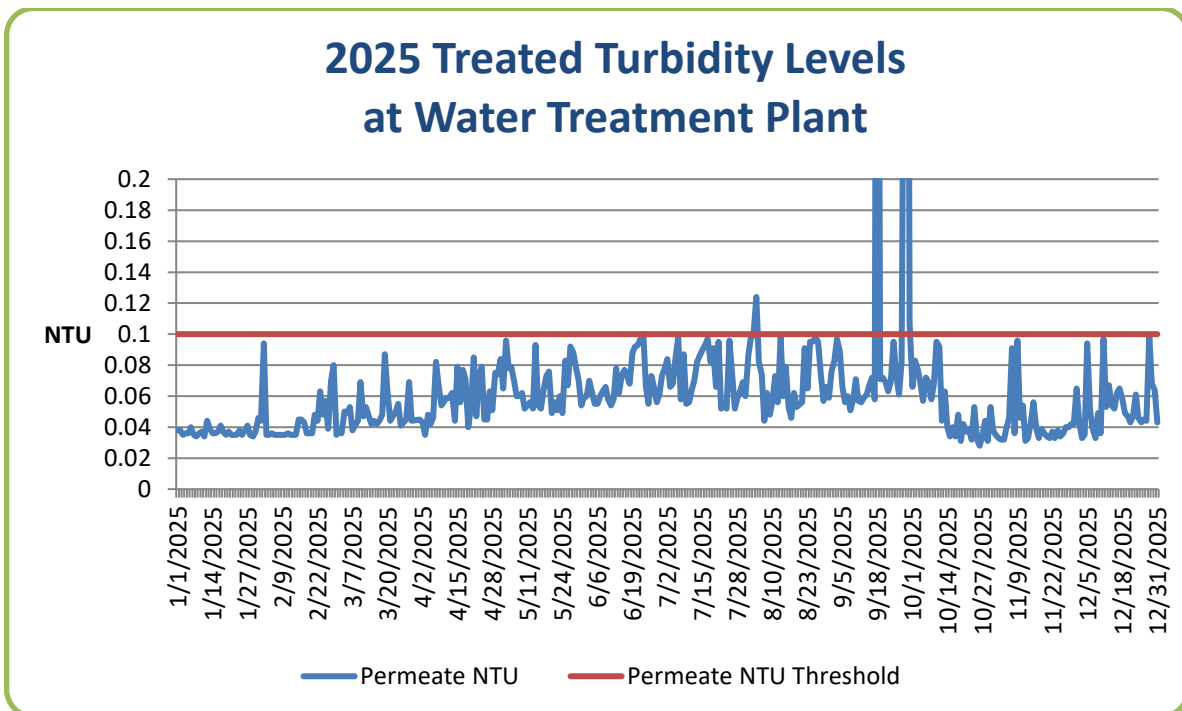


Figure 2 – Permeate (Treated) Water Turbidity Levels for Reporting Period

4.3 Chlorine Residual

Chlorine residual levels are measured post reservoir and within the distribution system throughout the year. The Regional District targets a minimum chlorine residual of 0.70 mg/l leaving the reservoir to maintain 0.2 mg/L in all areas of the distribution system as complete loss of residual would result in a water quality concern. On Oct 12, Nov 16, Nov 17 and, Dec 13 the chlorine residual analyzer reading was below 0.70 mg/l leaving the treated water storage reservoir. On Oct 12 the chlorine dosing pumped malfunctioned and a Water Quality Advisory was issued. On Nov 16 and 17 and Dec 13 heavy rainfall resulted in an increase in dissolved organics subsequently decreasing the chlorine residual post reservoir. Chlorine dosing was adjusted accordingly. Figure 3 shows chlorine residual levels post reservoir.

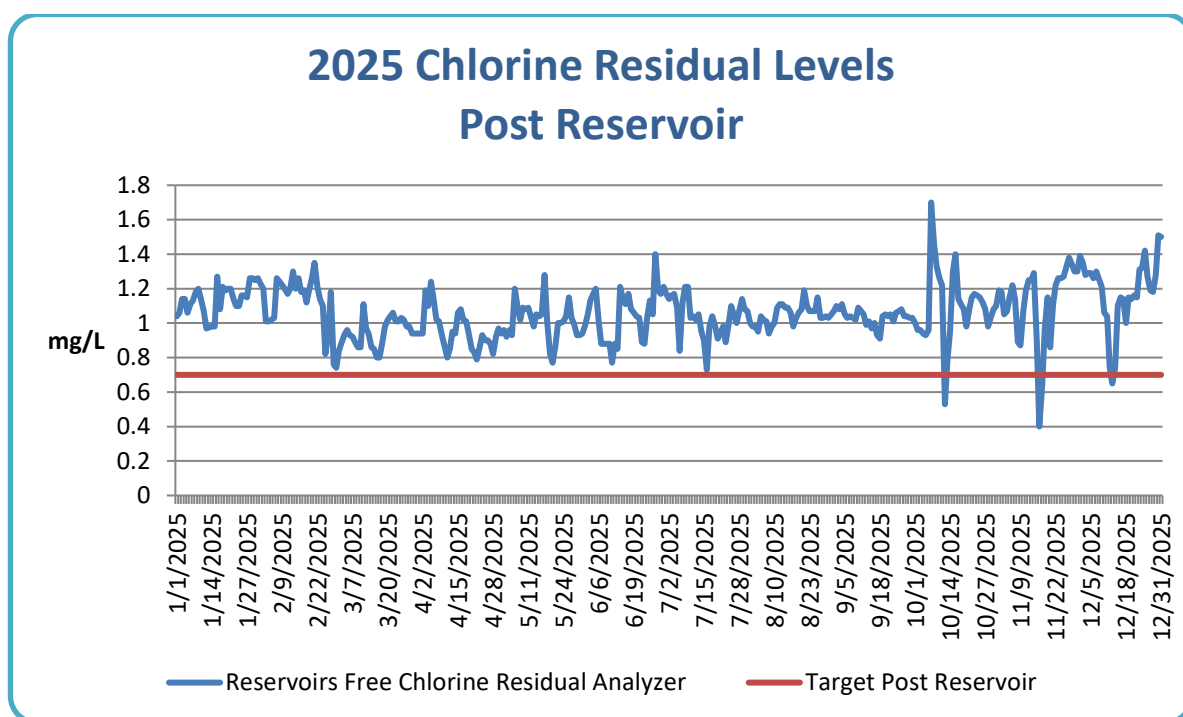


Figure 3 – Free Chlorine Residual Levels for Reporting Period

4.4 Consumption

Flow rates are measured for both the Arrow Creek water treatment plant and the Town of Creston. The consumption rate for the Erickson water system is determined from subtracting the two totals. The total recorded volume of treated water for the Arrow Creek water treatment plant in 2025 was 2,752,500 m³. The total calculated consumption volume for the Erickson water system in 2025 was 1,214,440 m³. Figure 4 shows the volumes per month of both the Arrow Creek water treatment plant and the Erickson water system for the reporting period.

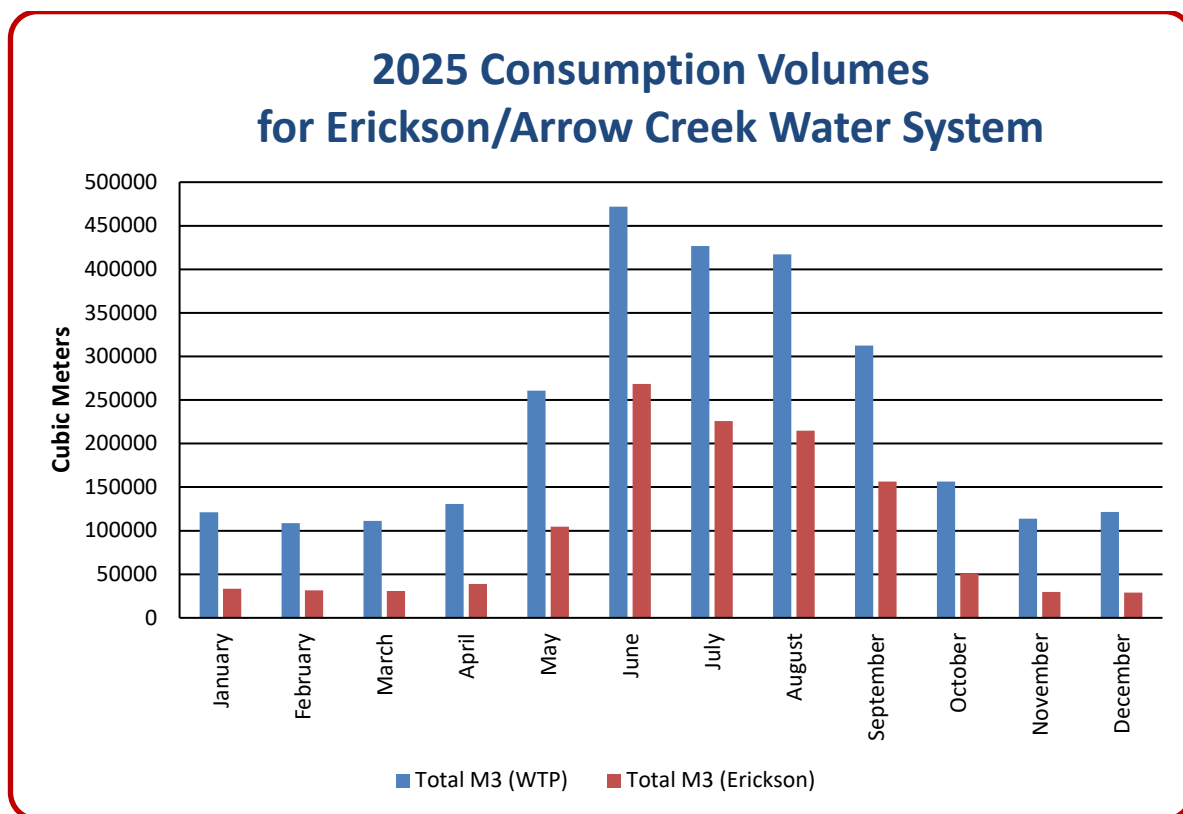


Figure 4 – Treated Water Volumes for Reporting Period

4.5 Chemistry

Comprehensive chemical analysis of water constituents was completed in October 2025 (including the assay for haloacetic acids, a chemical disinfection by-product). The results in Appendix A show that chemical parameters are below the Maximum Acceptable Concentration (MAC) as detailed in Health Canada’s *Guidelines for Canadian Drinking Water Quality – Summary Table (2024)*.

The RDCK also tested for the chemical disinfection by-products Trihalomethanes and Volatile Organic Compounds in April 2025. These results are presented in Appendix A. The results show that levels are below the MAC as outlined in the *Guidelines*.

5. Advisories Issued

The following table describes the Notices and Advisories issued for the reporting period.

Table 1 – Notices and Advisories Issued

Notice/Advisory Type	Dates in Effect	Reason
Boil Water Notice - Localized	April 1 – April 7 2025	Water main repair
Boil Water Notice - Localized	May 1 – May 12 2025	Service repair
Boil Water Notice - Localized	Aug 1 – Aug 8 2025	Service work
Boil Water Notice - Localized	Aug 13 – Aug 22 2025	PRV construction

Boil Water Notice - Localized	Sept 25 – Oct 10, 2025	Service tie-ins
Water Quality Advisory	Oct 12 – Oct 17, 2025	Chlorine dosing pump malfunction
Boil Water Notice - Localized	Sept 23 – Oct 24, 2025	Service replacements
Boil Water Notice - Localized	Oct 30 – Oct 30, 2025	Depressurization of main
Boil Water Notice - Localized	Nov 7 – Nov 7, 2025	Pressure loss
Water Quality Advisory	Nov 5 – Nov 17, 2025	Service valve consolidations
Boil Water Notice	Nov 12 – Nov 21, 2025	Emergency repair
Boil Water Notice - Localized	Dec 4 – Dec 12, 2025	Service work

*Each Notice/Advisory was issued a Rescind Notice to notify the public once action was completed and water quality sampling results demonstrated good water quality.

6. Capital Projects and Operations & Maintenance

The following capital projects in 2025:

- Phase 1 Universal Metering Project (substantial completion)
- 210m of 2" substandard pipe replaced with 4" HDPE along Erickson Road
- Pressure reducing station installed on west end of Erickson Road
- Water treatment plant HVAC system and controls upgrades

The following operations and maintenance items were completed in 2025:

- 4 road crossings, service and valve replacements
- Pipe replacement at 27th Ave S road crossing
- Abandoned 2 unused services
- Replaced pipe and valve on Hwy 3
- Replaced several leaks and service valves
- Preventative maintenance on PRV #3
- Annual distribution system flushing and valve exercising

7. Water Conservation

Mandatory Stage 1 water conservation measures are in place from June 1st to September 30th every year. In Stage 1 measures, watering lawns, gardens, trees and shrubs is permitted only from 7pm to 10am daily. Watering using drip irrigation, a watering can or a hand-held hose is permitted anytime. Stage 1 conservation measures remained in place until October 15th, 2025. The RDCK did not implement Stage 2 or 3 Water Conservation Measures on the Erickson water system in 2025.

8. Planned Improvements

8.1 Improvements Required by Operating Permit or Drinking Water Officer

The Regional District and Interior Health updated the Operating Permit Conditions (OPC) for Arrow Creek in 2024 and provided the following Conditions on Operating Permit under Section 8 of the BC Drinking Water Act:

Condition #1: Submit Commissioning Report & Operations Plan for Ultraviolet Disinfection Devices

Status: In Progress

Condition #2: Submit Drought Management Plan

Status: In Progress

Condition #3: Submit Water System Master Plan & Asset Management Plan

Status: In Progress

Condition #4: Update Operations & Maintenance Plan

Status: In Progress

Condition #5: Update Source Protection Planning Tools

Status: Ongoing

The RDCK is committed to complying with all terms and conditions of the permit by the target dates provided by Interior Health.

8.2 Future Improvements

The Erickson water system asset management plan identifies a backlog of approximately \$19.5 million in distribution system pipe replacement needs. In addition to the required replacement of these linear assets, much of the Erickson system is legacy asbestos concrete watermain that may require removal, including safe handling and disposal protocols unique to this material. Asbestos concrete removal costs are handled separately in the asset management plan. For Erickson, this cost is estimated at an additional \$10.2 million.

The following future improvements are planned for the system:

- Metering Phase 1 (substantially completed – a few complex installations remain)

- Metering Phase 2 (2026 - 2027)
- Intake upgrade design (2026)
- Intake upgrades construction (2027)
- Distribution system replacements (2027)

Water treatment plant bypass and water intake diversion improvements are planned over the next several years. The goal of these upgrades is to improve the settling capabilities of the two ponds and decrease the turbidity of water flowing into the water treatment plant. The project will also include improving the isolation of the ponds for cleaning.

9. Training and Certification

Table 2 – Operator Certification

OPERATOR	ACTIVE EOCP LEVELS
Allan K. Richardson	WD-II, WT-II, WWC-II, MWWT-I, CH
Cody Peck	WT-II, WD-II, CH
Evan Bjarnason	WT-II, WD-II, CH
Kalen Luck	WT-I, CH

10. Emergency Response and Contingency Plan

The Emergency Response and Contingency Plan (ERCP) for the Erickson and Arrow Creek systems is updated annually. The ERCP includes emergency contact information, a communications plan, and detailed procedures for the following types of incidents:

- broken water main;
- source contamination;
- elevated turbidity levels in treated water;
- fire in a building;
- flood conditions;
- loss of source;
- presence of coliforms or E. coli;
- pump failure;
- power failure;
- UV failure; and
- low chlorine residuals.

The *Drinking Water Protection Regulation (2003)*, under Section 13, requires that water suppliers provide an ERCP to address any potential emergencies that may impact the delivery of water and health of those being supplied by the water system. The ERCP must be made accessible to the staff of the water supplier and a copy submitted to the local Environmental Health Officer. The RDCK has fulfilled these requirements for the Erickson Water System.

Appendix A: Comprehensive Chemistry Analysis Results

CERTIFICATE OF ANALYSIS

REPORTED TO Regional District of Central Kootenay - Erickson
531B 16th Ave. South
CRESTON, BC V0B 1G5

ATTENTION Allan Richardson

PO NUMBER RDCK- Erickson

PROJECT Arrow Creek/ Erickson

PROJECT INFO

WORK ORDER 25J3292

RECEIVED / TEMP 2025-10-23 13:39 / 4.7°C

REPORTED 2025-10-31 12:24

COC NUMBER B37919

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

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If you have any questions or concerns, please contact me at hhannaoui@caro.ca

Authorized By:

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Junior Account Manager

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TEST RESULTS

REPORTED TO PROJECT Regional District of Central Kootenay - Erickson
Arrow Creek/ Erickson

WORK ORDER REPORTED 25J3292
2025-10-31 12:24

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Scotties RV Park - Erickson distribution (25J3292-01) | Matrix: Drinking Water | Sampled: 2025-10-22 10:20

Anions

Chloride	1.86	AO ≤ 250	0.10	mg/L	2025-10-24	
Fluoride	< 0.10	MAC = 1.5	0.10	mg/L	2025-10-24	
Nitrate (as N)	< 0.010	MAC = 10	0.010	mg/L	2025-10-24	
Nitrite (as N)	< 0.010	MAC = 1	0.010	mg/L	2025-10-24	
Sulfate	6.0	AO ≤ 500	1.0	mg/L	2025-10-24	

Calculated Parameters

Total Trihalomethanes	0.0294	MAC = 0.1	0.00400	mg/L	N/A	
Hardness, Total (as CaCO ₃)	46.0	None Required	0.500	mg/L	N/A	
Solids, Total Dissolved	62.0	AO ≤ 500	1.00	mg/L	N/A	

General Parameters

Alkalinity, Total (as CaCO ₃)	56.1	N/A	1.0	mg/L	2025-10-25	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-10-25	
Alkalinity, Bicarbonate (as CaCO ₃)	56.1	N/A	1.0	mg/L	2025-10-25	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-10-25	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	1.0	mg/L	2025-10-25	
Conductivity (EC)	105	N/A	2.0	µS/cm	2025-10-25	
Cyanide, Total	< 0.0020	MAC = 0.2	0.0020	mg/L	2025-10-25	
pH	7.05	7.0-10.5	0.10	pH units	2025-10-25	HT2
Turbidity	< 0.10	OG < 1	0.10	NTU	2025-10-24	

Haloacetic Acids

Monochloroacetic Acid	< 0.0040	N/A	0.0020	mg/L	2025-10-30	RA3
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2025-10-30	
Dichloroacetic Acid	0.0134	N/A	0.0020	mg/L	2025-10-30	
Trichloroacetic Acid	0.0176	N/A	0.0020	mg/L	2025-10-30	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2025-10-30	
Total Haloacetic Acids (HAA5)	0.0310	MAC = 0.08	0.00400	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	113		70-130	%	2025-10-30	

Microbiological Parameters

Coliforms, Total	< 1	MAC = 0	1	CFU/100 mL	2025-10-23	
E. coli	< 1	MAC = 0	1	CFU/100 mL	2025-10-23	

Total Metals

Aluminum, total	0.0073	OG < 0.1	0.0050	mg/L	2025-10-28	
Antimony, total	< 0.00020	MAC = 0.006	0.00020	mg/L	2025-10-28	
Arsenic, total	< 0.00050	MAC = 0.01	0.00050	mg/L	2025-10-28	
Barium, total	0.0212	MAC = 2	0.0050	mg/L	2025-10-28	
Boron, total	< 0.0500	MAC = 5	0.0500	mg/L	2025-10-29	
Cadmium, total	< 0.000010	MAC = 0.007	0.000010	mg/L	2025-10-28	
Calcium, total	13.9	None Required	0.20	mg/L	2025-10-28	
Chromium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-10-28	

TEST RESULTS

REPORTED TO PROJECT Regional District of Central Kootenay - Erickson
Arrow Creek/ Erickson

WORK ORDER REPORTED 25J3292
2025-10-31 12:24

Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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Scotties RV Park - Erickson distribution (25J3292-01) | Matrix: Drinking Water | Sampled: 2025-10-22
10:20, Continued

Total Metals, Continued

Copper, total	0.0113	MAC = 2	0.00040	mg/L	2025-10-28	
Iron, total	< 0.010	AO ≤ 0.1	0.010	mg/L	2025-10-28	
Lead, total	< 0.00020	MAC = 0.005	0.00020	mg/L	2025-10-28	
Magnesium, total	2.74	None Required	0.010	mg/L	2025-10-28	
Manganese, total	< 0.00020	MAC = 0.12	0.00020	mg/L	2025-10-28	
Potassium, total	0.47	N/A	0.10	mg/L	2025-10-28	
Selenium, total	< 0.00050	MAC = 0.05	0.00050	mg/L	2025-10-28	
Sodium, total	2.74	AO ≤ 200	0.10	mg/L	2025-10-28	
Strontium, total	0.0385	MAC = 7	0.0010	mg/L	2025-10-28	
Uranium, total	0.000124	MAC = 0.02	0.000020	mg/L	2025-10-28	
Zinc, total	0.0048	AO ≤ 5	0.0040	mg/L	2025-10-28	

Volatile Organic Compounds (VOC)

Bromodichloromethane	< 0.0010	N/A	0.0010	mg/L	2025-10-27	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2025-10-27	
Chloroform	0.0294	N/A	0.0010	mg/L	2025-10-27	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2025-10-27	
Surrogate: Toluene-d8	74		70-130	%	2025-10-27	
Surrogate: 4-Bromofluorobenzene	62		70-130	%	2025-10-27	S02

Sample Qualifiers:

HT2	The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
RA3	The Reporting Limit has been raised due to comparable level detected in the blank(s).
S02	Surrogate recovery outside of control limits. Data accepted based on acceptable recovery of other surrogates.

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Central Kootenay - Erickson
Arrow Creek/ Erickson

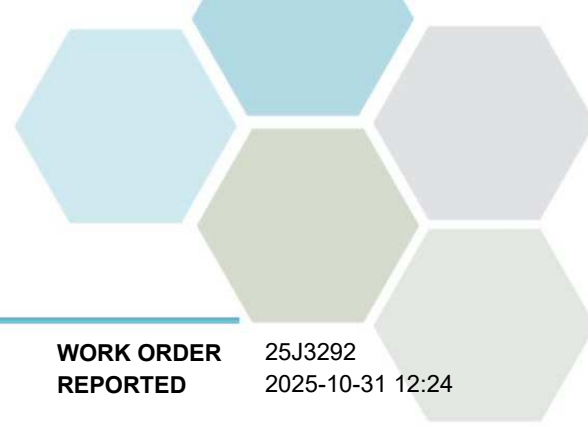
WORK ORDER REPORTED 25J3292
2025-10-31 12:24

Analysis Description	Method Ref.	Technique	Accredited	Location
Alkalinity in Water	SM 2320 B* (2021)	Titration with H ₂ SO ₄	✓	Kelowna
Anions in Water	SM 4110 B (2020)	Ion Chromatography	✓	Kelowna
Coliforms, Total in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Conductivity in Water	SM 2510 B (2021)	Conductivity Meter	✓	Kelowna
Cyanide, SAD in Water	ASTM D7511-12	Flow Injection with In-Line UV Digestion and Amperometry	✓	Kelowna
E. coli in Water	SM 9222* (2015)	Membrane Filtration / Chromocult Agar	✓	Kelowna
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	✓	Richmond
Hardness in Water	SM 2340 B* (2021)	Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est)	✓	N/A
pH in Water	SM 4500-H+ B (2021)	Electrometry	✓	Kelowna
Solids, Total Dissolved in Water	SM 1030 E (2021)	SM 1030 E		N/A
Total Metals in Water	EPA 200.2 / EPA 6020B	HNO ₃ +HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS)	✓	Richmond
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Richmond
Turbidity in Water	SM 2130 B (2020)	Nephelometry	✓	Kelowna

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
AO	Aesthetic Objective
CFU/100 mL	Colony Forming Units per 100 millilitres
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
NTU	Nephelometric Turbidity Units
OG	Operational Guideline (treated water)
pH units	pH < 7 = acidic, pH > 7 = basic
µS/cm	Microsiemens per centimetre
ASTM	ASTM International Test Methods
EPA	United States Environmental Protection Agency Test Methods
SM	Standard Methods for the Examination of Water and Wastewater, American Public Health Association



APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT	Regional District of Central Kootenay - Erickson Arrow Creek/ Erickson	WORK ORDER REPORTED	25J3292 2025-10-31 12:24
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General Comments:

The results in this report apply to samples received by CARO and analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety and must not be modified. CARO is not responsible for losses or damages resulting directly or indirectly from errors or omissions in the conduct of the testing. Any liability is limited to the cost of analysis. CARO will dispose of all samples within 30 days of sample receipt, unless otherwise agreed. The quality control (QC) data is available upon request

Results in **Bold** indicate values that are above CARO's method reporting limits. Results in **red** indicate values above the regulatory limits where these have been included. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: hhannaoui@caro.ca

Regulatory limits are added to test reports on request and are as a convenience only. While CARO makes every effort to ensure accuracy of regulatory limits, CARO assumes no liability for the use of this information. It remains the client's responsibility to ensure that regulatory limits are correct for their circumstances.

Appendix B: Trihalomethanes/Haloacetic Acid and Volatile Organic Compounds Monitoring Results

CERTIFICATE OF ANALYSIS

REPORTED TO	Regional District of Central Kootenay - Erickson 531B 16th Ave. South CRESTON, BC V0B 1G5		
ATTENTION	Allan Richardson	WORK ORDER	25D2690
PO NUMBER	RDCK- Erickson	RECEIVED / TEMP	2025-04-16 13:21 / 13.6°C
PROJECT	Lister Water System	REPORTED	2025-05-29 16:22
PROJECT INFO		COC NUMBER	B37916

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

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<https://www.caro.ca/terms-conditions>

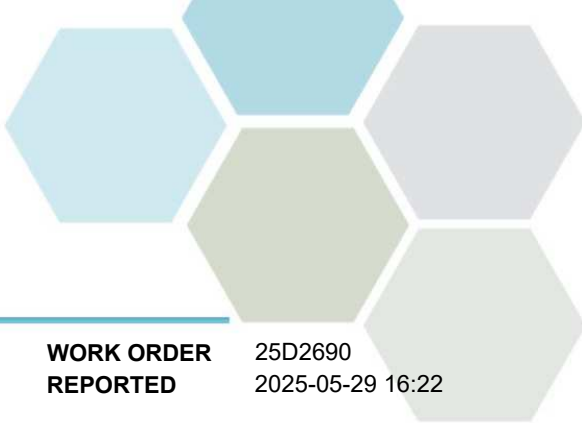
If you have any questions or concerns, please contact me at bwhitehead@caro.ca

Authorized By:

Brent Whitehead
Account Manager

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TEST RESULTS

REPORTED TO PROJECT	Regional District of Central Kootenay - Erickson Lister Water System	WORK ORDER REPORTED	25D2690 2025-05-29 16:22
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Analyte	Result	Guideline	RL	Units	Analyzed	Qualifier
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#2 PRU (25D2690-01) | Matrix: Water | Sampled: 2025-04-15 11:00

Calculated Parameters						
Total Trihalomethanes	0.0309	MAC = 0.1	0.00400	mg/L	N/A	
Haloacetic Acids						
Monochloroacetic Acid	< 0.0020	N/A	0.0020	mg/L	2025-04-24	
Monobromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2025-04-24	
Dichloroacetic Acid	0.0167	N/A	0.0020	mg/L	2025-04-24	
Trichloroacetic Acid	0.0182	N/A	0.0020	mg/L	2025-04-24	
Dibromoacetic Acid	< 0.0020	N/A	0.0020	mg/L	2025-04-24	
Total Haloacetic Acids (HAA5)	0.0350	MAC = 0.08	0.00200	mg/L	N/A	
Surrogate: 2-Bromopropionic Acid	104		70-130	%	2025-04-24	
Volatile Organic Compounds (VOC)						
Bromodichloromethane	< 0.0010	N/A	0.0010	mg/L	2025-04-25	
Bromoform	< 0.0010	N/A	0.0010	mg/L	2025-04-25	
Chloroform	0.0309	N/A	0.0010	mg/L	2025-04-25	
Dibromochloromethane	< 0.0010	N/A	0.0010	mg/L	2025-04-25	
Surrogate: Toluene-d8	97		70-130	%	2025-04-25	
Surrogate: 4-Bromofluorobenzene	96		70-130	%	2025-04-25	

APPENDIX 1: SUPPORTING INFORMATION

REPORTED TO PROJECT Regional District of Central Kootenay - Erickson
Lister Water System

WORK ORDER REPORTED 25D2690
2025-05-29 16:22

Analysis Description	Method Ref.	Technique	Accredited	Location
Haloacetic Acids in Water	EPA 552.3*	Liquid-Liquid Microextraction, Derivatization and GC-ECD	✓	Richmond
Trihalomethanes in Water	EPA 5030B / EPA 8260D	Purge&Trap / GC-MSD (SIM)	✓	Richmond

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

RL	Reporting Limit (default)
<	Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors
MAC	Maximum Acceptable Concentration (health based)
mg/L	Milligrams per litre
EPA	United States Environmental Protection Agency Test Methods

Guidelines Referenced in this Report:

[Guidelines for Canadian Drinking Water Quality \(Health Canada, September 2022\)](#)

Note: In some cases, the values displayed on the report represent the lowest guideline and are to be verified by the end user

General Comments:

The results in this report apply to the received samples analyzed in accordance with the Chain of Custody document. This analytical report must be reproduced in its entirety. CARO is not responsible for any loss or damage resulting directly or indirectly from error or omission in the conduct of testing. Liability is limited to the cost of analysis. Caro will dispose of all samples within 30 days of sample receipt, unless otherwise agreed. The quality control (QC) data is available upon request

Results in **Bold** indicate values that are above CARO's method reporting limits. Any results that are above regulatory limits are highlighted **red**. Please note that results will only be highlighted red if the regulatory limits are included on the CARO report. Any Bold and/or highlighted results do not take into account method uncertainty. If you would like method uncertainty or regulatory limits to be included on your report, please contact your Account Manager: bwhitehead@caro.ca

Please note any regulatory guidelines applied to this report are added as a convenience to the client, at their request, to help provide some initial context to analytical results obtained. Although CARO makes every effort to ensure accuracy of the associated regulatory guideline(s) applied, the guidelines applied cannot be assumed to be correct due to a variety of factors and as such CARO Analytical Services assumes no liability or responsibility for the use of those guidelines to make any decisions. The original source of the regulation should be verified and a review of the guideline(s) should be validated as correct in order to make any decisions arising from the comparison of the analytical data obtained to the relevant regulatory guideline for one's particular circumstances. Further, CARO Analytical Services assumes no liability or responsibility for any loss attributed from the use of these guidelines in any way.