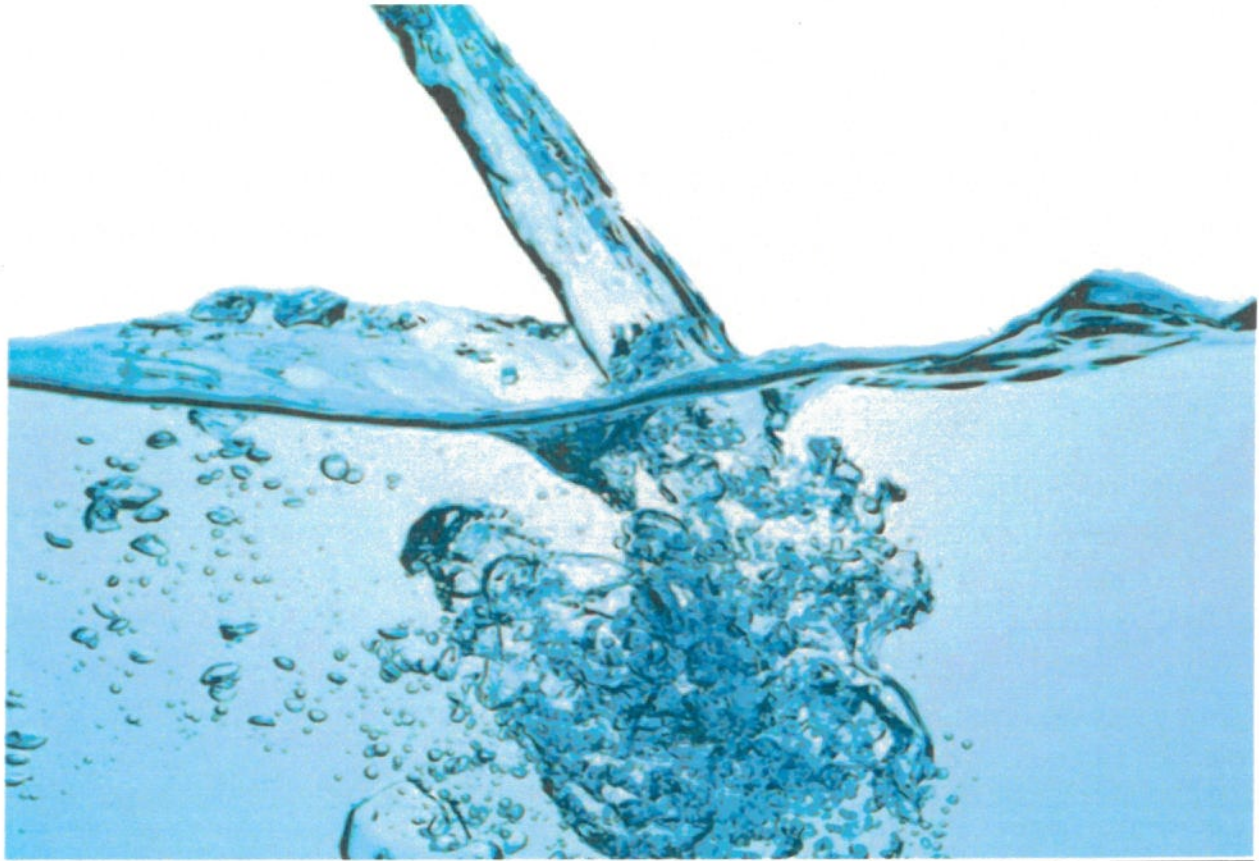


2025 Water Report Valemount Community Water Source



VILLAGE OF
VALEMOUNT

Let the mountains move you.



northern health

the northern way of caring

Valemount Community Watershed 2025 Water Report

Population Served: 1076

Number of Connections: 577 Residential 104 Commercial

Type of Source: Swift Creek

Type of Treatment: Conventional filtration system which includes the following processes: Coagulation, flocculation, Clarification, Filtration, U.V. and Chlorination.

Number of Sampling Sites: 6

Number of Samples Taken During 2025: 50

Number of Samples Showing the Presence of Total Coliform or Ecoli: 0

Complete List of Water Quality Data Provided

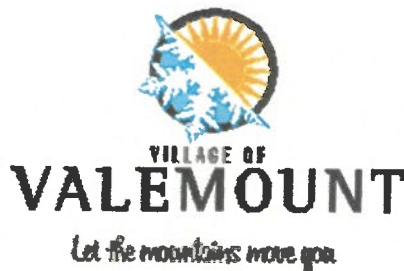
Water Chemistry Data Collected during Previous Year's provided

Trevor Pelletier

Superintendent of Public Works

WT2, WD1, WWT1, WWC1

1-250-566-4435 pworks@valemount.ca



Erika Mak

Environmental Health Officer

Public Health Protection

4th Floor 1600 Third Avenue, Prince George, BC V2L 3G6

Prince George Tel: 250-565-7322 24hr Emergency line 1-833-214-3274

Fax: 250-645-8091

Erika.Mak@northernhealth.ca

Valemount CWS

Facility Location:

Facility Information:

Facility Type: 301-10000 Connections

Current Hazard Rating: ◆ **Low**

Facility Sampling History:

<u>Location</u>	<u>Date</u>	<u>Total Coliform</u>	<u>Fecal Coliform</u>	<u>E. Coli</u>
Valemount Learning Centre, 99 Gorse Street	2-Jul-2025	LT1		LT1
400 Ash Street, 400 Ash Street	2-Jul-2025	LT1		LT1
Village Office Coffee Room, 735 Cranberry Lake Road	2-Jul-2025	LT1		LT1
Valemount Learning Centre, 99 Gorse Street	4-Jun-2025	LT1		LT1
Village Office Coffee Room, 735 Cranberry Lake Road	4-Jun-2025	LT1		LT1
400 Ash Street, 400 Ash Street	4-Jun-2025	LT1		LT1
Alpine Country Rentals, 1140 Main Street	4-Jun-2025	LT1		LT1
Swift Creek - Raw, Various	4-Jun-2025	33.2		1.0
Village Office Coffee Room, 735 Cranberry Lake Road	7-May-2025	LT1		LT1
Valemount Learning Centre, 99 Gorse Street	7-May-2025	LT1		LT1
400 Ash Street, 400 Ash Street	7-May-2025	LT1		LT1
Best Western, 1950 Highway 5 South	7-May-2025	LT1		LT1
Valemount Learning Centre, 99 Gorse Street	8-Apr-2025	LT1		LT1
400 Ash Street, 400 Ash Street	8-Apr-2025	LT1		LT1
Alpine Country Rentals, 1140 Main Street	8-Apr-2025	LT1		LT1
Village Office Coffee Room, 735 Cranberry Lake Road	8-Apr-2025	LT1		LT1
Valemount Learning Centre, 99 Gorse Street	5-Mar-2025	LT1		LT1
Village Office Coffee Room, 735 Cranberry Lake Road	5-Mar-2025	LT1		LT1
400 Ash Street, 400 Ash Street	5-Mar-2025	LT1		LT1
Best Western, 1950 Highway 5 South	5-Mar-2025	LT1		LT1
Alpine Country Rentals, 1140 Main Street	11-Feb-2025	LT1		LT1
Village Office Coffee Room, 735 Cranberry Lake Road	11-Feb-2025	LT1		LT1
400 Ash Street, 400 Ash Street	11-Feb-2025	LT1		LT1
Valemount Learning Centre, 99 Gorse Street	11-Feb-2025	LT1		LT1
Village Office Coffee Room, 735 Cranberry Lake Road	7-Jan-2025	LT1		LT1
Best Western, 1950 Highway 5 South	7-Jan-2025	LT1		LT1
400 Ash Street, 400 Ash Street	7-Jan-2025	LT1		LT1
Valemount Learning Centre, 99 Gorse Street	7-Jan-2025	LT1		LT1

Valemount Learning Centre, 99 Gorse Street	3-Dec-2025	LT1
Village Office Coffee Room, 735 Cranberry Lake Road	3-Dec-2025	LT1
Alpine Country Rentals, 1140 Main Street	3-Dec-2025	LT1
400 Ash Street, 400 Ash Street	3-Dec-2025	LT1
Valemount Learning Centre, 99 Gorse Street	4-Nov-2025	LT1
Village Office Coffee Room, 735 Cranberry Lake Road	4-Nov-2025	LT1
400 Ash Street, 400 Ash Street	4-Nov-2025	LT1
Best Western, 1950 Highway 5 South	4-Nov-2025	LT1
Village Office Coffee Room, 735 Cranberry Lake Road	7-Oct-2025	LT1
Valemount Learning Centre, 99 Gorse Street	7-Oct-2025	LT1
400 Ash Street, 400 Ash Street	7-Oct-2025	LT1
Alpine Country Rentals, 1140 Main Street	7-Oct-2025	LT1
Valemount Learning Centre, 99 Gorse Street	3-Sep-2025	LT1
Village Office Coffee Room, 735 Cranberry Lake Road	3-Sep-2025	LT1
400 Ash Street, 400 Ash Street	3-Sep-2025	LT1
Best Western, 1950 Highway 5 South	3-Sep-2025	LT1
Village Office Coffee Room, 735 Cranberry Lake Road	5-Aug-2025	LT1
Alpine Country Rentals, 1140 Main Street	5-Aug-2025	LT1
400 Ash Street, 400 Ash Street	5-Aug-2025	LT1
Valemount Learning Centre, 99 Gorse Street	5-Aug-2025	LT1
Best Western, 1950 Highway 5 South	2-Jul-2025	LT1
Valemount Learning Centre, 99 Gorse Street	2-Jul-2025	LT1

Water System Inspection Report

Inspection Information

Facility name	Valemount CWS
Facility number	
Officer	NI EHO 6
Inspection type	Routine
Inspection date	June 13, 2025
Follow-up	Yes
Inspection required	
Hazard rating	Low

Critical Hazards - These items relate to public health or safety, and must receive immediate attention.

Operation & Maintenance - These items must be corrected within a designated time period.

314 - Improper maintenance of distribution system

Observation: Small bushes can be observed growing on the surface of the outdoor reservoir.

Correction: Operator to remove bushes on the reservoir and seal holes.

Correct By: 13-Sep-2025

320 - Other (specify below)

Observation: An up to date Emergency Response and Contingency Plan (ERCP) is not available. ERCP does not have updated contact or drought response.

Correction: Operator to update ERCP to include drought response, updated contacts and submit it to Northern Health.

Correct By: 13-Sep-2025

Corrected Violations

No corrections entered

Comments

Inspection completed with EHO Neha K. and operator Trevor P.

Source & Pumphouse:

Source of water is 26km down Swift Creek.

The three screens can be observed from shore and in place.

Intake is inspected regularly. Divers are hired to clean intake and pump house. Pond for holding backwash water from treatment is located near pumphouse and intake. It is fenced and located downstream from intake. Sign posted at surface intake structure.

Clarification & Filtration:

There are two water treatment filtration/clarification tank. This tank has upflow contact clarifier and down flow media filter.

Multimedia Filtration include mixed media consist of anthracite, silica and granite.

Ultraviolet

UV light is change out every 4000 hours as per manufacturers recommendations.

Maintenance Log available and record UV intensity of both units daily.

UV operational indicator light is on.

Replacement bulb and parts are on-site.

Chlorination:

Chlorination room is maintained and access is restricted.

Chemicals are store in separate room and labelled.

Chlorine sits on metal grate above a concrete hole underneath that act as containment in case of spill.

Chlorination room is well maintained and free of debris.

Spare parts - injector pumps are on-site.

Chlorine used is Hypochlor 12, supplied by CLEARTech and is NSF 60 std.

Max and minimum residual is set at 2.2 ppm and 1.4ppm respectively.

Reservoir

Reservoir #1 is an outdoor reservoir with exterior foam. Size is approximately with 841 m³.

Reservoir #2 is underground, with a total capacity of approximately 1140 m³. This reservoir located underneath the treatment building.

Out door reservoir have some plants growing on the insulation exterior.

Other General observations:

Log shows that pump operates for 3.7 (March 16, 2025) hours in winter to 17.8 hours(Jun 17, 2025) in summer months.

Water enter building with a turbidity of 2.819 NTU and post treatment showed 0.024 NTU operator's system. Turbidity meter is checked every 3 months

Back-up generator on-site and is check daily.

Distribution:

Recently changes: connected to retirement home facility.

Flushing occurs annually.

Chemistry measured at time of inspection at the treatment plant sink:

Turbidity: 0.39 NTU

Free Chlorine: 2.33 ppm

Documentation:

Last water chemistry sample submitted in 2023. No issue noted.

Operator training meets EOCP requirements - Treatment class 2 and Distribution class 1.

Maintenance log is maintained and include pH, Temperature, runtime, free chlorine measured at various locations (shop, office, STP and Best Western). Treatment plant data log include chemical used, backwash time, inflow meter information, flow meter, NTU, UV intensity and reservoir level.

Erika Mak
EHO 6



CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	: KS2304705	Page	: 1 of 10
Client	: Village of Valemount	Laboratory	: ALS Environmental - Kamloops
Contact	: Trevor Pelletier	Account Manager	: Amanda Lampreau
Address	: 735 Cranberry Lake Road PO Box 168 Valemount BC Canada V0E 2Z0	Address	: 1445 McGill Road, Unit 2B Kamloops, British Columbia Canada V2C 6K7
Telephone	: 250 566 4435	Telephone	: 1 250 372 3588
Project	: Annual Water Test	Date Samples Received	: 06-Dec-2023 12:22
PO	: ----	Date Analysis Commenced	: 06-Dec-2023
C-O-C number	: ----	Issue Date	: 18-Dec-2023 15:04
Sampler	: ----		
Site	: ----		
Quote number	: KS20-GMVL100-01		
No. of samples received	: 2		
No. of samples analysed	: 2		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Guideline Comparison

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Amanda Lampreau	Laboratory _ Supervisor	Microbiology, Kamloops, British Columbia
Ghazaleh Khanmirzaei	Analyst	Metals, Burnaby, British Columbia
Janice Leung	Supervisor - Organics Instrumentation	Organics, Burnaby, British Columbia
Kate Dimitrova	Supervisor - Inorganic	Inorganics, Burnaby, British Columbia
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Inorganics, Burnaby, British Columbia
Kim Jensen	Department Manager - Metals	Organics, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia
Rebecca Sit	Supervisor - Organics Extractions	Organics, Burnaby, British Columbia
Sanja Risticjevic	Department Manager - LCMS	LCMS, Waterloo, Ontario
Syreena Bhattacharya	Account Manager	Administration, Kamloops, British Columbia

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guidelines are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Key : LOR: Limit of Reporting (detection limit).

Unit	Description
-	no units
°C	degrees celsius
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
MPN/100mL	most probable number per hundred millilitres
NTU	nephelometric turbidity units
pH units	pH units

> : greater than.

< : less than.

Red shading is applied where the result or the LOR is greater than the Guideline Upper Limit (or lower than the Guideline Lower Limit, if applicable).

For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

Lighter shading is applied where the LOR itself is greater than the Guideline Upper Limit (or Lower than the Guideline Lower Limit, if applicable).

Qualifiers

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
HTDC	Hold time exceeded for dilution or re-analysis. Reported results are consistent with initial results (tested within hold time), and are valid and defensible.



Analytical Results

Sub-Matrix: Water (Matrix: Water)		Client sample ID		Raw Water	
Analyte	Method/Lab	LOR	Unit	Sampling date/time	KS2304705-001
Field Tests					
pH, field	EF001/KS	0.10	pH units	7.19	--
Temperature, field	EF001/KS	0.10	°C	3.30	--
Physical Tests					
Alkalinity, total (as CaCO3)	E290/VA	1.0	mg/L	62.4	--
Colour, true	E329/VA	5.0	CU	<5.0	--
Conductivity	E100/VA	2.0	µS/cm	167	15 CU
Hardness (as CaCO3), from total Ca/Mg	EC100/AVA	0.60	mg/L	82.2	--
Langelier index (@ 4°C)	EC104/AVA	0.01	-	-1.36	--
pH	E108/VA	0.10	pH units	7.70	7 - 10.5 pH units
Solids, total dissolved [TDS]	E162/VA	10	mg/L	98	500 mg/L
Turbidity	E121/VA	0.10	NTU	8.13	1 NTU
Langelier index (@ 15°C)	EC104/AVA	0.01	-	-1.18	--
Langelier index (@ 20°C)	EC104/AVA	0.01	-	-1.11	--
Langelier index (@ 25°C)	EC104/AVA	0.01	-	-1.04	--
Langelier index (@ 60°C)	EC104/AVA	0.01	-	-0.58	--
Langelier index (@ 77°C)	EC104/AVA	0.01	-	-0.38	--
Anions and Nutrients					
Ammonia, total (as N)	E298/VA	0.0050	mg/L	0.0066	--
Bromide	E235.Br-LVA	0.050	mg/L	<0.050	--
Chloride	E235.ClVA	0.50	mg/L	2.87	250 mg/L
Fluoride	E235.FVA	0.020	mg/L	<0.020	1.5 mg/L
Kjeldahl nitrogen, total [TKN]	E318/VA	0.050	mg/L	0.088	--
Nitrate (as N)	E235.NO3-LVA	0.0050	mg/L	0.204	10 mg/L
Nitrite (as N)	E235.NO2-LVA	0.0010	mg/L	<0.0010	1 mg/L
Nitrogen, total organic	EC363/VA	0.050	mg/L	0.081	--
Sulfate (as SO4)	E235.SO4VA	0.30	mg/L	20.5	500 mg/L
Organic / Inorganic Carbon					
Carbon, total organic [TOC]	E355-LVA	0.50	mg/L	1.11	--
Microbiological Tests					
Coliforms, total	E010/KS	1	MPN/100mL	71	1 MPN/100mL



Page : 4 of 10
 Work Order : KS2304705
 Client : Village of Valemount
 Project : Annual Water Test

Analyte	Method/Lab	LOR	Unit	KS2304705-001 (Continued)	BCDWQG AO	BCDWQG MAC	BCDWQG OG	--	--
Microbiological Tests - Continued									
Coliforms, Escherichia coli [E. coli]	E010/KS	1	MPN/100mL	1	--	1 MPN/100mL	--	--	--
Total Metals									
Aluminum, total	E420VA	0.0030	mg/L	2.73	--	2.9 mg/L	--	--	--
Antimony, total	E420VA	0.00010	mg/L	<0.00010	--	0.006 mg/L	--	--	--
Arsenic, total	E420VA	0.00010	mg/L	0.00071	--	0.01 mg/L	--	--	--
Barium, total	E420VA	0.00010	mg/L	0.00430	--	2 mg/L	--	--	--
Beryllium, total	E420VA	0.000100	mg/L	<0.000100	--	--	--	--	--
Bismuth, total	E420VA	0.000050	mg/L	<0.000050	--	--	--	--	--
Boron, total	E420VA	0.010	mg/L	<0.010	--	5 mg/L	--	--	--
Cadmium, total	E420VA	0.0000050	mg/L	0.000147	--	0.007 mg/L	--	--	--
Calcium, total	E420VA	0.050	mg/L	17.8	--	--	--	--	--
Cesium, total	E420VA	0.000010	mg/L	0.000048	--	--	--	--	--
Chromium, total	E420VA	0.00050	mg/L	0.00050	--	0.05 mg/L	--	--	--
Cobalt, total	E420VA	0.00010	mg/L	0.00040	--	0.001 mg/L	--	--	--
Copper, total	E420VA	0.00050	mg/L	0.00516	1 mg/L	2 mg/L	--	--	--
Iron, total	E420VA	0.010	mg/L	0.764	0.3 mg/L	--	--	--	--
Lead, total	E420VA	0.000050	mg/L	0.000766	--	0.005 mg/L	--	--	--
Lithium, total	E420VA	0.0010	mg/L	0.0030	--	--	--	--	--
Magnesium, total	E420VA	0.0050	mg/L	9.17	--	--	--	--	--
Manganese, total	E420VA	0.00010	mg/L	0.0278	0.02 mg/L	0.12 mg/L	--	--	--
Mercury, total	E508VA	0.0000050	mg/L	<0.0000050	--	0.001 mg/L	--	--	--
Molybdenum, total	E420VA	0.000050	mg/L	0.000083	--	--	--	--	--
Nickel, total	E420VA	0.00050	mg/L	0.0133	--	--	--	--	--
Phosphorus, total	E420VA	0.050	mg/L	<0.050	0.01 mg/L	--	--	--	--
Potassium, total	E420VA	0.050	mg/L	0.690	--	--	--	--	--
Rubidium, total	E420VA	0.00020	mg/L	0.00084	--	--	--	--	--
Selenium, total	E420VA	0.000050	mg/L	0.000106	--	0.05 mg/L	--	--	--
Silicon, total	E420VA	0.10	mg/L	2.09	--	--	--	--	--
Silver, total	E420VA	0.000010	mg/L	0.000017	--	--	--	--	--
Sodium, total	E420VA	0.050	mg/L	1.05	200 mg/L	--	--	--	--
Strontium, total	E420VA	0.00020	mg/L	0.123	--	7 mg/L	--	--	--
Sulfur, total	E420VA	0.50	mg/L	7.45	--	--	--	--	--
Tellurium, total	E420VA	0.00020	mg/L	<0.00020	--	--	--	--	--
Thallium, total	E420VA	0.000010	mg/L	<0.000010	--	--	--	--	--
Thorium, total	E420VA	0.00010	mg/L	0.00014	--	--	--	--	--



Analyte	Method/Lab	LOR	Unit	KS2304705-001 (Continued)	BCDWQG AO	BCDWQG MAC	BCDWQG OG	--	--	--
Total Metals - Continued										
Tin, total	E420/VA	0.00010	mg/L	<0.00010	--	--	--	--	--	--
Titanium, total	E420/VA	0.00030	mg/L	<0.000630 DLM	--	--	--	--	--	--
Tungsten, total	E420/VA	0.00010	mg/L	<0.00010	--	--	--	--	--	--
Uranium, total	E420/VA	0.0000010	mg/L	0.00343	--	0.02 mg/L	--	--	--	--
Vanadium, total	E420/VA	0.00050	mg/L	<0.00050	--	--	--	--	--	--
Zinc, total	E420/VA	0.0030	mg/L	0.0266	5 mg/L	--	--	--	--	--
Zirconium, total	E420/VA	0.00020	mg/L	<0.00020	--	--	--	--	--	--
Volatile Organic Compounds [Fuels]										
Benzene	E611/AVA	0.50	µg/L	<0.50	--	5 µg/L	--	--	--	--
Ethylbenzene	E611/AVA	0.50	µg/L	<0.50	1.6 µg/L	140 µg/L	--	--	--	--
Methyl-tert-butyl ether [MTBE]	E611/AVA	0.50	µg/L	<0.50	15 µg/L	--	--	--	--	--
Styrene	E611/AVA	0.50	µg/L	<0.50	--	--	--	--	--	--
Toluene	E611/AVA	0.50	µg/L	<0.50	24 µg/L	60 µg/L	--	--	--	--
Xylene, m+p-	E611/AVA	0.40	µg/L	<0.40	--	--	--	--	--	--
Xylene, o-	E611/AVA	0.30	µg/L	<0.30	--	--	--	--	--	--
Xylenes, total	E611/AVA	0.50	µg/L	<0.50	20 µg/L	90 µg/L	--	--	--	--
BTEX, total	E611/AVA	1.0	µg/L	<1.0	--	--	--	--	--	--
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	E611/AVA	1.0	%	89.2	--	--	--	--	--	--
Difluorobenzene, 1,4-	E611/AVA	1.0	%	103	--	--	--	--	--	--

Please refer to the General Comments section for an explanation of any result qualifiers detected.
 Please refer to the Accreditation section for an explanation of analyte accreditations.

Summary of Guideline Breaches by Sample

SampleID/Client ID	Matrix	Analyte	Analyte Summary	Guideline	Category	Result	Limit
Raw Water	Water	Iron, total		BCDWQG	AO	0.764 mg/L	0.3 mg/L
	Water	Manganese, total		BCDWQG	AO	0.0278 mg/L	0.02 mg/L
	Water	Phosphorus, total		BCDWQG	AO	<0.050	
	Water	Turbidity		BCDWQG	MAC	8.13 NTU	1 NTU
	Water	Coliforms, Escherichia coli [E. coli]		BCDWQG	MAC	1 MPN/100mL	1 MPN/100mL
	Water	Coliforms, total		BCDWQG	MAC	71 MPN/100mL	1 MPN/100mL



Page : 6 of 10
Work Order : KS2304705
Client : Village of Valemount
Project : Annual Water Test

Key:

- BCDWQG British Columbia Drinking Water Quality Guidelines (JAN, 2023)
- AO Aesthetic Objective/Other Value
- MAC Maximum Acceptable Concentrations
- OG Operational Guidance



Analytical Results

Analyte	Method/Lab	LOR	Unit	Client sample ID		BCDWQG AO	BCDWQG MAC	BCDWQG OG		
				Sampling date/time	Treated Water					
Field Tests										
pH, field	EF001/KS	0.10	pH units		05-Dec-2023 10:30	--	--	--	--	--
Temperature, field	EF001/KS	0.10	°C			--	--	--	--	--
Physical Tests										
Alkalinity, total (as CaCO3)	E290/VA	1.0	mg/L			--	--	--	--	--
Colour, true	E329/VA	5.0	CU			15 CU	--	--	--	--
Conductivity	E100/VA	2.0	µS/cm			--	--	--	--	--
Hardness (as CaCO3), from total Ca/Mg	EC100/AVA	0.60	mg/L			--	--	--	--	--
Langlier index (@ 4°C)	EC104/AVA	0.01	-			--	--	--	--	--
pH	E108/VA	0.10	pH units			--	--	7 - 10.5 pH units	--	--
Solids, total dissolved [TDS]	E162/VA	10	mg/L			500 mg/L	--	--	--	--
Turbidity	E121/VA	0.10	NTU			--	1 NTU	--	--	--
Langlier index (@ 15°C)	EC104/AVA	0.01	-			--	--	--	--	--
Langlier index (@ 20°C)	EC104/AVA	0.01	-			--	--	--	--	--
Langlier index (@ 25°C)	EC104/AVA	0.01	-			--	--	--	--	--
Langlier index (@ 60°C)	EC104/AVA	0.01	-			--	--	--	--	--
Langlier index (@ 77°C)	EC104/AVA	0.01	-			--	--	--	--	--
Anions and Nutrients										
Ammonia, total (as N)	E298/VA	0.0050	mg/L			--	--	--	--	--
Bromide	E235.Br-LVA	0.050	mg/L			--	--	--	--	--
Chloride	E235.ClVA	0.50	mg/L			250 mg/L	--	--	--	--
Fluoride	E235.FVA	0.020	mg/L			--	1.5 mg/L	--	--	--
Kjeldahl nitrogen, total [TKN]	E318/VA	0.050	mg/L			--	--	--	--	--
Nitrate (as N)	E235.NO3-LVA	0.0050	mg/L			--	10 mg/L	--	--	--
Nitrite (as N)	E235.NO2-LVA	0.0010	mg/L			--	1 mg/L	--	--	--
Nitrogen, total organic	EC363/VA	0.050	mg/L			--	--	--	--	--
Sulfate (as SO4)	E235.SO4/VA	0.30	mg/L			500 mg/L	--	--	--	--
Organic / Inorganic Carbon										
Carbon, total organic [TOC]	E355-LVA	0.50	mg/L			--	--	--	--	--
Microbiological Tests										
Coliforms, total	E010/KS	1	MPN/100mL			--	1 MPN/100mL	--	--	--



Analyte	Method/Lab	LOR	Unit	KS2304705-002 (Continued)	BCDWQG AO	BCDWQG MAC	BCDWQG OG	-	-
Microbiological Tests - Continued									
Coliforms, Escherichia coli [E. coli]	E010KS	1	MPN/100mL	<1	-	1 MPN/100mL	-	-	-
Total Metals									
Aluminum, total	E420VA	0.0030	mg/L	0.111	-	2.9 mg/L	-	-	-
Antimony, total	E420VA	0.00010	mg/L	<0.00010	-	0.006 mg/L	-	-	-
Arsenic, total	E420VA	0.00010	mg/L	<0.00010	-	0.01 mg/L	-	-	-
Barium, total	E420VA	0.00010	mg/L	0.00250	-	2 mg/L	-	-	-
Beryllium, total	E420VA	0.000100	mg/L	<0.000100	-	-	-	-	-
Bismuth, total	E420VA	0.000050	mg/L	<0.000050	-	-	-	-	-
Boron, total	E420VA	0.010	mg/L	<0.010	-	5 mg/L	-	-	-
Cadmium, total	E420VA	0.0000050	mg/L	<0.0000050	-	0.007 mg/L	-	-	-
Calcium, total	E420VA	0.050	mg/L	17.8	-	-	-	-	-
Cesium, total	E420VA	0.000010	mg/L	<0.000010	-	-	-	-	-
Chromium, total	E420VA	0.00050	mg/L	<0.00050	-	0.05 mg/L	-	-	-
Cobalt, total	E420VA	0.00010	mg/L	<0.00010	-	0.001 mg/L	-	-	-
Copper, total	E420VA	0.00050	mg/L	0.00079	1 mg/L	2 mg/L	-	-	-
Iron, total	E420VA	0.010	mg/L	<0.010	0.3 mg/L	-	-	-	-
Lead, total	E420VA	0.000050	mg/L	<0.000050	-	0.005 mg/L	-	-	-
Lithium, total	E420VA	0.0010	mg/L	0.0030	-	-	-	-	-
Magnesium, total	E420VA	0.0050	mg/L	9.43	-	-	-	-	-
Manganese, total	E420VA	0.00010	mg/L	0.00038	0.02 mg/L	0.12 mg/L	-	-	-
Mercury, total	E508VA	0.0000050	mg/L	<0.0000050	-	0.001 mg/L	-	-	-
Molybdenum, total	E420VA	0.000050	mg/L	0.000086	-	-	-	-	-
Nickel, total	E420VA	0.00050	mg/L	<0.00050	-	-	-	-	-
Phosphorus, total	E420VA	0.050	mg/L	<0.050	0.01 mg/L	-	-	-	-
Potassium, total	E420VA	0.050	mg/L	0.566	-	-	-	-	-
Rubidium, total	E420VA	0.00020	mg/L	0.00030	-	-	-	-	-
Selenium, total	E420VA	0.000050	mg/L	0.000055	-	0.05 mg/L	-	-	-
Silicon, total	E420VA	0.10	mg/L	1.57	-	-	-	-	-
Silver, total	E420VA	0.000010	mg/L	<0.000010	-	-	-	-	-
Sodium, total	E420VA	0.050	mg/L	2.85	200 mg/L	-	-	-	-
Strontium, total	E420VA	0.00020	mg/L	0.123	-	7 mg/L	-	-	-
Sulfur, total	E420VA	0.50	mg/L	7.57	-	-	-	-	-
Tellurium, total	E420VA	0.00020	mg/L	<0.00020	-	-	-	-	-
Thallium, total	E420VA	0.000010	mg/L	<0.000010	-	-	-	-	-
Thorium, total	E420VA	0.00010	mg/L	<0.00010	-	-	-	-	-



Analyte	Method/Lab	LOR	Unit	KS2304705-002 (Continued)	BCDWQG AO	BCDWQG MAC	BCDWQG OG	--	--	--
Total Metals - Continued										
Tin, total	E420VA	0.00010	mg/L	0.00110	--	--	--	--	--	--
Titanium, total	E420VA	0.00030	mg/L	<0.00030	--	--	--	--	--	--
Tungsten, total	E420VA	0.00010	mg/L	<0.00010	--	--	--	--	--	--
Uranium, total	E420VA	0.000010	mg/L	0.000090	--	0.02 mg/L	--	--	--	--
Vanadium, total	E420VA	0.00050	mg/L	<0.00050	--	--	--	--	--	--
Zinc, total	E420VA	0.0030	mg/L	<0.0030	5 mg/L	--	--	--	--	--
Zirconium, total	E420VA	0.00020	mg/L	<0.00020	--	--	--	--	--	--
Volatile Organic Compounds [Fuels]										
Benzene	E611AVA	0.50	µg/L	<0.50	--	5 µg/L	--	--	--	--
Ethylbenzene	E611AVA	0.50	µg/L	<0.50	1.6 µg/L	140 µg/L	--	--	--	--
Methyl-tert-butyl ether [MTBE]	E611AVA	0.50	µg/L	<0.50	15 µg/L	--	--	--	--	--
Styrene	E611AVA	0.50	µg/L	<0.50	--	--	--	--	--	--
Toluene	E611AVA	0.50	µg/L	<0.50	24 µg/L	60 µg/L	--	--	--	--
Xylene, m+p-	E611AVA	0.40	µg/L	<0.40	--	--	--	--	--	--
Xylene, o-	E611AVA	0.30	µg/L	<0.30	--	--	--	--	--	--
Xylenes, total	E611AVA	0.50	µg/L	<0.50	20 µg/L	90 µg/L	--	--	--	--
Bromochloromethane	E611BVA	1.0	µg/L	<1.0	--	--	--	--	--	--
Bromoform	E611BVA	1.0	µg/L	<1.0	--	--	--	--	--	--
Chloroform	E611BVA	1.0	µg/L	3.8	--	--	--	--	--	--
Dibromochloromethane	E611BVA	1.0	µg/L	<1.0	--	--	--	--	--	--
BTEX, total	E611AVA	1.0	µg/L	<1.0	--	--	--	--	--	--
Trihalomethanes [THMs], total	E611BVA	2.0	µg/L	3.8	--	100 µg/L	--	--	--	--
Bromofluorobenzene, 4-	E611BVA	1.0	%	93.7	--	--	--	--	--	--
Difluorobenzene, 1,4-	E611BVA	1.0	%	103	--	--	--	--	--	--
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	E611AVA	1.0	%	93.7	--	--	--	--	--	--
Difluorobenzene, 1,4-	E611AVA	1.0	%	103	--	--	--	--	--	--
Haloacetic Acids										
Bromochloroacetic acid	E750WT	1.00	µg/L	<1.00	--	--	--	--	--	--
Dibromoacetic acid	E750WT	1.00	µg/L	<1.00	--	--	--	--	--	--
Dichloroacetic acid	E750WT	1.00	µg/L	1.44	--	--	--	--	--	--
Monobromoacetic acid	E750WT	1.00	µg/L	<1.00	--	--	--	--	--	--
Monochloroacetic acid	E750WT	1.00	µg/L	<1.00	--	--	--	--	--	--
Trichloroacetic acid	E750WT	1.00	µg/L	1.66	--	--	--	--	--	--
Haloacetic acids, total [HAA5]	E750WT	1.81	µg/L	3.10	--	--	--	--	--	--



Page : 10 of 10
 Work Order : KS2304705
 Client : Village of Valermount
 Project : Annual Water Test

Please refer to the General Comments section for an explanation of any result qualifiers detected.
 Please refer to the Accreditation section for an explanation of analyte accreditations.

Summary of Guideline Breaches by Sample

SampleID/Client ID	Matrix	Analyte	Analyte Summary	Guideline	Category	Result	Limit
Treated Water	Water	Phosphorus, total		BCDWQG	AO	<-0.050	

Key:

- BCDWQG British Columbia Drinking Water Quality Guidelines (JAN, 2023)
- AO Aesthetic Objective/Other Value
- MAC Maximum Acceptable Concentrations
- OG Operational Guidance