

2025 Annual Water Public Report

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2025 APPENDICES

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WATER DISTRIBUTION SYSTEM HISTORY

Since 1992, water purveyors in B.C. have been required to possess an Operating Permit issued by their Regional Health Authority, which includes following the [Guidelines for Canadian Drinking Water Quality](#), and the [British Columbia Drinking Water Protection Act](#) and [Drinking Water Protection Regulation](#)

WATER DISTRIBUTION SYSTEM DESCRIPTION

The Town of Smithers water system currently draws water from three wells.

Well #1 (19th Avenue) is located about 30 feet away from the original well and is connected to the same pumphouse. It is 268 feet deep and, in a sand and gravel aquifer with a 12-inch telescoping screen between 234 and 265 feet. This pumphouse is used for annual chlorine application for Spring Water Main Flushing.

Well #2 (Victoria Street well) is 244 feet deep well, in the same aquifer, confined from potential contamination from an old landfill site, and with a similar screen from 193 to 235 feet. Its capacity is unknown, but lower than Well #1.

Well #3 (Riverside Park) is located adjacent to the Bulkley River, is 92 feet deep gravel aquifer with a similar screen from 64 to 85 feet. This pumphouse is also used for annual chlorine application for water main flushing.

In 2025, Well #1 (19th Avenue) produced an average of 74.9 L/S (11183 USG/M). Well #2 (Victoria Street) produced at an average rate of 12.4 L/S (196 USG/M). Well #3, (Riverside Park) produced an average of 38.0 L/S (600 USG/M). Well #1 provides the Town with 41.7% of its water while Well #2 provides 26.7% and Well #3 makes up the remaining 31.6%.

The Town of Smithers Water System currently has 2411 residential connections and 281 commercial/industrial connections. The system serves a population of approximately 5400 people.

STANDARDS

The Town of Smithers has a Northern Health Authority (NHA) permit to operate a drinking water system with 301 -10000 connections (copy of permit attached – Appendix “A”). The Emergency Response Plan is reviewed and updated annually or as required.

Samples are collected weekly and evaluated for bacteria. This schedule was set up with the NHA Environmental Health Officer in 2018 to accommodate the limited days that are available to send out the samples weekly. Overall, the Town of Smithers tests at least 8 separate locations each month. These samples are taken to the local Northern Health Authority Office and sent to an accredited lab for testing and analyzed for the presence of Total Coliform and *E. coli*.

The Town of Smithers Utility Department collected a total of 131 Bacteriological Water Samples in 2025. Of the collected samples, 6 tested positive for trace amounts of Total Coliforms, 0 positive returns for E. coli, and 0 positive returns for Fecal Coliform. There are many factors that can contribute to positive returns in water samples, including handling and sampling practices.

Please note that when background growth counts are **greater than 200**, a follow-up investigation by Northern Health and sampling would be initiated as a higher count could indicate that the water system may be under potability stress. A complete breakdown of Total Coliforms and E. coli results can be found at Healthspace.ca/nha - [Smithers Community Water Systems - Samples](#)

An annual “Core Chemical Analysis” provides the Town with a full chemical breakdown of the water in the system. These samples are taken at each well and at specific locations elsewhere in town. These samples are analyzed at an accredited lab from the Northern Health Authority for chemical and physical parameters including potability, metals, and mercury. Lab analysis indicated that the water was moderately hard with relatively low mineral content. Results of these samples are included in Appendix “B.”

MANGANESE (MN)

Health Canada has established a new **Health-Based Guideline** in 2019 for manganese with a **Maximum Acceptable Concentration (MAC)** of 0.12 mg/L and an **Aesthetic Objective (AO)** of 0.02 mg/L.

The Town of Smithers samples quarterly for manganese and, because of the new guidelines in place, the water in the system now slightly exceeds the MAC in 19 of 33 samples taken in 2025. Working closely with Northern Health, the Town issued a standing “Water Quality Advisory” in 2022 and is actively working on treatment solutions. More information and FAQs concerning manganese can be found on the Town of Smithers webpage (<https://www.smithers.ca/node/414/manganese-drinking-water>).

Manganese is an essential element for humans and occurs naturally in the environment. Manganese is widely distributed in air, water, and soil. The main problem with manganese in drinking water has to do with undesirable taste and discoloration (black) of the water. Aesthetic Quality Guidelines address parameters, which may affect consumer acceptance of drinking water, such as taste, odour, and color. The Maximum Acceptable Concentration (MAC) for manganese in drinking water is 0.12 mg/L. As with iron, the presence of manganese in water may lead to the accumulation of microbial growths in the distribution system. Even at concentrations below 0.12 mg/L, manganese may form coatings on water distribution pipes that may slough off as black precipitates.

For more information on drinking water, please refer to the Canadian Drinking Water Quality Guidelines (CDWQG) - <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/water-quality/drinking-water/canadian-drinking-water-guidelines.html>

WATER STORAGE FACILITIES

The distribution system includes two reservoirs, both of which float on the system. The Float on the System is a method of operating a water storage facility. Daily flow into the facility is approximately equal to the average daily demand for water. When consumer demands for water are low, the storage facility will be filling. During periods of high demand, the facility will be emptying. The reservoir levels are lowered and raised significantly each day. One reservoir is 265,000 gallons and is approximately 10 feet deep. The other is 1,000,000 gallons and 25 feet deep. Both have a single inlet/outlet, and the distribution system is flushed annually.

The main Moncton Road reservoir was built in 1975. The reservoir has been evaluated, and the June 2005 Condition Survey is on file in the Utility Supervisor's Office as well as in the Engineering Department at the Town Office.

The small reservoir on Zobnick Road was built in 1950; it contains two compartments and is underground. The Zobnick reservoir was cleaned in September 2015.

Both reservoirs recently underwent cleaning and inspection procedures. No defects were found and the reservoirs remain compliant with all operational integrity and safety standards for continued use.

WELL MAINTENANCE

Well maintenance is a critical component of our water infrastructure maintenance program. As the water from the three wells is introduced into our distribution grid untreated, we conduct maintenance and monitoring. The water levels are measured and recorded to ensure the aquifer is not over utilized and the system is checked for malfunctions. The system is flushed regularly and all activities around the wells are closely monitored and regulated. The Environmental Operators Certification Program of British Columbia certifies the employees who maintain this facility.

VALVES

The Town of Smithers has 875 flow control valves (including the airport) attached to the underground network. The valves are primarily used to control the direction of water flow and to isolate areas of the network for inspection or repair. The expected service life of a flow control valve is 40 to 50 years without cathodic protection and 100 years with cathodic protection. Cathodic Protection (CP) is a technique used to control the corrosion of metal surface by making it the cathode of an electrochemical cell.

WATER MAIN FLUSHING

The Town of Smithers initiated a water main flushing program in 1978. In 2002, the Town of Smithers replaced the old chlorine gas system used in flushing water mains with a new hypochlorite (liquid chlorine) system. Each main is flushed annually in the month of May during daytime hours and flushes its 49.2 km of water mains. The Hypochlorite is added two weeks before and during flushing.

The Town of Smithers follows the Guidelines for Canadian Drinking Water Quality (GCDWQ) protocols regarding the levels of Chlorine that is used. More information regarding Chlorine can be found at [Guidelines for Canadian Drinking Water Quality: Guideline Technical Document – Chlorine](#).

In addition to accumulated debris, some areas of the water system are susceptible to water stagnation, where water usage is low, or water mains terminate at a cul-de-sac or water main dead ends. Accumulated debris and stagnant water inhibit flow through mains, cause dirty water and create a favourable environment for bacteria growth. In response to these concerns, chlorine is added during flushing to offset any bacteria that might be disturbed during the flushing program.

The Town of Smithers takes the responsibility of a water supplier very seriously and takes pride in the fact that we maintain a system that provides the Town of Smithers with the highest quality of potable water.

SUMMARY OF COMPLETED PROJECTS

In summary, the Town of Smithers undertook the following in the year 2025:

- Flushed every water main
- Installed 3 new services
- Maintained 3 pump stations
- Repaired 1 water main valves
- Repaired 20 water shut-off services
- Turned on/off 18 water services
- Conducted 131 microbiological tests and continued a dedicated water sampling and testing program.
 - There were 6 positive E. coli tests reported.
 - Detected 0 fecal coliform tests
- Installed 10 new water meters with R-900i meters
- Total water pumped in 2025 = 895,845 cubic meters
- Total metered water (commercial) = 587,548 cubic metres
- Maintained emergency generator by running it once a month for an hour
- Water Treatment Plant at the Smithers Airport became operational in September 2025

In May of 2023, Riverside well was scheduled to be rehabilitated due to age and the pump replaced with a new modern pump. During the engineering stage of the project, the well pump suffered catastrophic mechanical failure. A temporary pump was installed and will be used until the project is completed in early 2026. Although this temporary pump

produces slightly less volume of water than the old pump, when combined with 19th Avenue well and Victoria Street well, it is sufficient enough to provide for usage as well as fire protection. The upgrade is still scheduled to be implemented in 2026.

FUTURE PLANS

In 2026, The Town will utilize the Feasibility Study to discuss the implementation of the newly operational Water Treatment Plant. This will assist in the Town maintaining a high level of water quality to its end users. The Town will continue collaborating with Northern Health to facilitate the removal of manganese, with the Water Treatment Plant also playing a role in the process.

In the Spring of 2026, water main replacements will proceed to include the segment from Railway to Manitoba, located beneath the CN yard.

The Riverside replacement pump project is currently under way and is scheduled for completion in early 2026. This replacement will improve water supply to our reservoirs and establish a more reliable and resilient system overall.

Respectfully submitted,

Peter Minard
Utilities Supervisor

PM/jb



2025 Annual Water Public Report

APPENDIX "A"

2025 Ministry of Health Permit

PERMIT TO OPERATE

A Drinking Water System with
301-10000 Connections

System Name: Smithers Community Water System
Physical Location: Smithers Community Water System
1027 Aldous Street
Smithers BC
Owner Name: Town of Smithers

Conditions of Permit

- > Bacteriological sampling required minimum of twice weekly, from locations that are representative of the distribution system, as approved by the Environmental Health Officer.
- > Chemical sampling is required minimum yearly, from each source, or at the request of the Environmental Health Officer.
- > An Emergency Response plan shall be maintained and updated annually; or as required.

1-Jul-1992

Effective Permit Date
Officer

Environmental Health

30-Jun-2016

Permit Revised Date

*This permit must be displayed
in a conspicuous place and is non-transferable*

Place

Decal Here



2025 Annual Water Public Report

APPENDIX "B"

2025 Analytical Water Report

ANALYTICAL REPORT

Town of Smithers
PO Box 879
Smithers, BC V0J 2N0
dfuerst@smithers.ca

Project: Drinking water
Project Number: -
Project Manager: Darren Fuerst

Work Order: N25L042

RECEIVED: 24-Dec-2025

REPORTED: 21-Jan-2026

All analyses were performed in accordance with standard procedures published by BC MoE, Health Canada, Environment Canada, the American Public Health Association, or the US EPA.

Northern Laboratories (2010) Ltd.



Jesse Newton
Laboratory Manager

ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: 19th Ave Well (N25L042-01), Sampled: 22-Dec-2025 11:43						
Anions						
Chloride	19.5	AO ≤ 250	1.0 mg/L	6-Jan-26	SM 4500-Cl D	
Fluoride	0.14	MAC = 1.5	0.10 mg/L	5-Jan-26	SM 4500-F C	
Nitrite (as N)	<0.01	MAC = 1	0.01 mg/L	24-Dec-25	SM 4500-NO2 B	
Nitrate + Nitrite (as N)	<0.10	MAC = 10	0.10 mg/L	24-Dec-25	SM 4500-NO3 E	
Sulfate	1.2	AO ≤ 500	1.0 mg/L	4-Jan-26	SM 4110 B (2020)	
General Parameters						
pH	7.8	7 - 10.5	1.0 pH units	24-Dec-25	SM 4500-H B	
Alkalinity (total, as CaCO ₃)	210		5 mg/L	24-Dec-25	SM 2320 B	
Conductivity	435		1.0 uS/cm	24-Dec-25	SM 2510 B	
Colour	<1	AO ≤ 15	1 PtCo units	24-Dec-25	SM 2120 C	
Turbidity	0.22	OG < 1	0.05 NTU	24-Dec-25	SM 2130 B	
Solids, Total Dissolved / TDS	270	AO ≤ 500	1.0 mg/L	24-Dec-25	SM 2540 C	
Carbon, Total Organic	0.85		0.50 mg/L	5-Jan-26	SM 5310 B (2022)	
Ammonia (total as N)	0.14		0.03 mg/L	7-Jan-26	SM 4500-NH3 D	
Nitrogen, Total Kjeldahl	0.172		0.050 mg/L	2-Jan-26	SM 4500-Norg D* (2021)	
Calculated Parameters						
Nitrate (as N)	<0.10	MAC = 10	0.10 mg/L	7-Jan-26	[CALC]	
Nitrogen, organic	<0.0500		0.0500 mg/L	7-Jan-26	[CALC]	
Hardness, Total (as CaCO ₃)	95.3	None Required	0.500 mg/L	2-Jan-26	SM 2340 B* (2021)	
Total Metals						
Aluminum, total	<0.0050	OG < 0.1 MAC = 2.9	0.0050 mg/L	2-Jan-26	EPA 6020B	
Antimony, total	<0.00020	MAC = 0.006	0.00020 mg/L	2-Jan-26	EPA 6020B	
Arsenic, total	0.00138	MAC = 0.01	0.00050 mg/L	2-Jan-26	EPA 6020B	
Barium, total	0.0911	MAC = 2	0.0050 mg/L	2-Jan-26	EPA 6020B	
Beryllium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Bismuth, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Boron, total	0.0507	MAC = 5	0.0500 mg/L	2-Jan-26	EPA 6020B	
Cadmium, total	<0.000010	MAC = 0.007	0.000010 mg/L	2-Jan-26	EPA 6020B	
Calcium, total	24.8	None Required	0.20 mg/L	2-Jan-26	EPA 6020B	
Chromium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Cobalt, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Copper, total	0.00577	MAC = 2 AO ≤ 1	0.00040 mg/L	2-Jan-26	EPA 6020B	
Iron, total	<0.010	AO ≤ 0.1	0.010 mg/L	2-Jan-26	EPA 6020B	
Lead, total	0.00038	MAC = 0.005	0.00020 mg/L	2-Jan-26	EPA 6020B	
Lithium, total	0.00297		0.00010 mg/L	2-Jan-26	EPA 6020B	

Northern Laboratories (2010) Ltd.

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ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: 19th Ave Well (N25L042-01), Sampled: 22-Dec-2025 11:43						
Total Metals						
Magnesium, total	8.09	None Required	0.010 mg/L	2-Jan-26	EPA 6020B	
Manganese, total	0.154	MAC = 0.12 AO <= 0.02	0.00020 mg/L	2-Jan-26	EPA 6020B	
Mercury, total	<0.000010	MAC = 0.001	0.000010 mg/L	5-Jan-26	EPA 245.7*	
Molybdenum, total	0.00383		0.00010 mg/L	2-Jan-26	EPA 6020B	
Nickel, total	<0.00040		0.00040 mg/L	2-Jan-26	EPA 6020B	
Phosphorus, total	0.052		0.050 mg/L	2-Jan-26	EPA 6020B	
Potassium, total	1.55		0.10 mg/L	2-Jan-26	EPA 6020B	
Selenium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Silicon, total	7.1		1.0 mg/L	2-Jan-26	EPA 6020B	
Silver, total	<0.000050	None Required	0.000050 mg/L	2-Jan-26	EPA 6020B	
Sodium, total	70.1	AO <= 200	0.10 mg/L	2-Jan-26	EPA 6020B	
Strontium, total	0.302	MAC = 7	0.0010 mg/L	2-Jan-26	EPA 6020B	
Sulfur, total	<3.0		3.0 mg/L	2-Jan-26	EPA 6020B	
Tellurium, total	<0.00050		0.00050 mg/L	2-Jan-26	EPA 6020B	
Thallium, total	<0.000020		0.000020 mg/L	2-Jan-26	EPA 6020B	
Thorium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Tin, total	<0.00020		0.00020 mg/L	2-Jan-26	EPA 6020B	
Titanium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Tungsten, total	<0.0010		0.0010 mg/L	2-Jan-26	EPA 6020B	
Uranium, total	0.000650	MAC = 0.02	0.000020 mg/L	2-Jan-26	EPA 6020B	
Vanadium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Zinc, total	<0.0040	AO <= 5	0.0040 mg/L	2-Jan-26	EPA 6020B	
Zirconium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	

ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Riverside Well (N25L042-02), Sampled: 22-Dec-2025 09:42						
Anions						
Chloride	3.0	AO ≤ 250	1.0 mg/L	6-Jan-26	SM 4500-Cl D	
Fluoride	<0.10	MAC = 1.5	0.10 mg/L	5-Jan-26	SM 4500-F C	
Nitrite (as N)	<0.01	MAC = 1	0.01 mg/L	24-Dec-25	SM 4500-NO2 B	
Nitrate + Nitrite (as N)	<0.10	MAC = 10	0.10 mg/L	24-Dec-25	SM 4500-NO3 E	
Sulfate	7.7	AO ≤ 500	1.0 mg/L	4-Jan-26	SM 4110 B (2020)	
General Parameters						
pH	7.7	7 - 10.5	1.0 pH units	24-Dec-25	SM 4500-H B	
Alkalinity (total, as CaCO ₃)	100		5 mg/L	24-Dec-25	SM 2320 B	
Conductivity	218		1.0 uS/cm	24-Dec-25	SM 2510 B	
Colour	4	AO ≤ 15	1 PtCo units	24-Dec-25	SM 2120 C	
Turbidity	0.38	OG < 1	0.05 NTU	24-Dec-25	SM 2130 B	
Solids, Total Dissolved / TDS	140	AO ≤ 500	1.0 mg/L	24-Dec-25	SM 2540 C	
Carbon, Total Organic	0.97		0.50 mg/L	5-Jan-26	SM 5310 B (2022)	
Ammonia (total as N)	0.16		0.03 mg/L	7-Jan-26	SM 4500-NH3 D	
Nitrogen, Total Kjeldahl	0.150		0.050 mg/L	2-Jan-26	SM 4500-Norg D* (2021)	
Calculated Parameters						
Nitrate (as N)	<0.10	MAC = 10	0.10 mg/L	7-Jan-26	[CALC]	
Nitrogen, organic	<0.0500		0.0500 mg/L	7-Jan-26	[CALC]	
Hardness, Total (as CaCO ₃)	91.7	None Required	0.500 mg/L	2-Jan-26	SM 2340 B* (2021)	
Total Metals						
Aluminum, total	0.0051	OG < 0.1 MAC = 2.9	0.0050 mg/L	2-Jan-26	EPA 6020B	
Antimony, total	<0.00020	MAC = 0.006	0.00020 mg/L	2-Jan-26	EPA 6020B	
Arsenic, total	0.00297	MAC = 0.01	0.00050 mg/L	2-Jan-26	EPA 6020B	
Barium, total	0.0521	MAC = 2	0.0050 mg/L	2-Jan-26	EPA 6020B	
Beryllium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Bismuth, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Boron, total	<0.0500	MAC = 5	0.0500 mg/L	2-Jan-26	EPA 6020B	
Cadmium, total	<0.000010	MAC = 0.007	0.000010 mg/L	2-Jan-26	EPA 6020B	
Calcium, total	24.3	None Required	0.20 mg/L	2-Jan-26	EPA 6020B	
Chromium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Cobalt, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Copper, total	0.00351	MAC = 2 AO ≤ 1	0.00040 mg/L	2-Jan-26	EPA 6020B	
Iron, total	0.036	AO ≤ 0.1	0.010 mg/L	2-Jan-26	EPA 6020B	
Lead, total	<0.00020	MAC = 0.005	0.00020 mg/L	2-Jan-26	EPA 6020B	
Lithium, total	0.00055		0.00010 mg/L	2-Jan-26	EPA 6020B	

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ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Riverside Well (N25L042-02), Sampled: 22-Dec-2025 09:42						
Total Metals						
Magnesium, total	7.54	None Required	0.010 mg/L	2-Jan-26	EPA 6020B	
Manganese, total	0.163	MAC = 0.12 AO <= 0.02	0.00020 mg/L	2-Jan-26	EPA 6020B	
Mercury, total	<0.000010	MAC = 0.001	0.000010 mg/L	5-Jan-26	EPA 245.7*	
Molybdenum, total	0.00110		0.00010 mg/L	2-Jan-26	EPA 6020B	
Nickel, total	<0.00040		0.00040 mg/L	2-Jan-26	EPA 6020B	
Phosphorus, total	0.070		0.050 mg/L	2-Jan-26	EPA 6020B	
Potassium, total	0.55		0.10 mg/L	2-Jan-26	EPA 6020B	
Selenium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Silicon, total	5.5		1.0 mg/L	2-Jan-26	EPA 6020B	
Silver, total	<0.000050	None Required	0.000050 mg/L	2-Jan-26	EPA 6020B	
Sodium, total	12.7	AO <= 200	0.10 mg/L	2-Jan-26	EPA 6020B	
Strontium, total	0.226	MAC = 7	0.0010 mg/L	2-Jan-26	EPA 6020B	
Sulfur, total	<3.0		3.0 mg/L	2-Jan-26	EPA 6020B	
Tellurium, total	<0.00050		0.00050 mg/L	2-Jan-26	EPA 6020B	
Thallium, total	<0.000020		0.000020 mg/L	2-Jan-26	EPA 6020B	
Thorium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Tin, total	<0.00020		0.00020 mg/L	2-Jan-26	EPA 6020B	
Titanium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Tungsten, total	<0.0010		0.0010 mg/L	2-Jan-26	EPA 6020B	
Uranium, total	0.000071	MAC = 0.02	0.000020 mg/L	2-Jan-26	EPA 6020B	
Vanadium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Zinc, total	<0.0040	AO <= 5	0.0040 mg/L	2-Jan-26	EPA 6020B	
Zirconium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	

ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Fire Hall (N25L042-03), Sampled: 22-Dec-2025 09:52						
Anions						
Chloride	8.9	AO ≤ 250	1.0 mg/L	6-Jan-26	SM 4500-Cl D	
Fluoride	0.14	MAC = 1.5	0.10 mg/L	5-Jan-26	SM 4500-F C	
Nitrite (as N)	<0.01	MAC = 1	0.01 mg/L	24-Dec-25	SM 4500-NO2 B	
Nitrate + Nitrite (as N)	<0.10	MAC = 10	0.10 mg/L	24-Dec-25	SM 4500-NO3 E	
Sulfate	4.3	AO ≤ 500	1.0 mg/L	4-Jan-26	SM 4110 B (2020)	
General Parameters						
pH	7.8	7 - 10.5	1.0 pH units	24-Dec-25	SM 4500-H B	
Alkalinity (total, as CaCO ₃)	200		5 mg/L	24-Dec-25	SM 2320 B	
Conductivity	400		1.0 uS/cm	24-Dec-25	SM 2510 B	
Colour	4	AO ≤ 15	1 PtCo units	24-Dec-25	SM 2120 C	
Turbidity	0.20	OG < 1	0.05 NTU	24-Dec-25	SM 2130 B	
Solids, Total Dissolved / TDS	250	AO ≤ 500	1.0 mg/L	24-Dec-25	SM 2540 C	
Carbon, Total Organic	0.92		0.50 mg/L	5-Jan-26	SM 5310 B (2022)	
Ammonia (total as N)	0.19		0.03 mg/L	7-Jan-26	SM 4500-NH ₃ D	
Nitrogen, Total Kjeldahl	0.172		0.050 mg/L	2-Jan-26	SM 4500-Norg D* (2021)	
Calculated Parameters						
Nitrate (as N)	<0.10	MAC = 10	0.10 mg/L	7-Jan-26	[CALC]	
Nitrogen, organic	<0.0500		0.0500 mg/L	7-Jan-26	[CALC]	
Hardness, Total (as CaCO ₃)	80.8	None Required	0.500 mg/L	2-Jan-26	SM 2340 B* (2021)	
Total Metals						
Aluminum, total	<0.0050	OG < 0.1 MAC = 2.9	0.0050 mg/L	2-Jan-26	EPA 6020B	
Antimony, total	<0.00020	MAC = 0.006	0.00020 mg/L	2-Jan-26	EPA 6020B	
Arsenic, total	0.00307	MAC = 0.01	0.00050 mg/L	2-Jan-26	EPA 6020B	
Barium, total	0.0727	MAC = 2	0.0050 mg/L	2-Jan-26	EPA 6020B	
Beryllium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Bismuth, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Boron, total	<0.0500	MAC = 5	0.0500 mg/L	2-Jan-26	EPA 6020B	
Cadmium, total	<0.000010	MAC = 0.007	0.000010 mg/L	2-Jan-26	EPA 6020B	
Calcium, total	21.3	None Required	0.20 mg/L	2-Jan-26	EPA 6020B	
Chromium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Cobalt, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Copper, total	0.00187	MAC = 2 AO ≤ 1	0.00040 mg/L	2-Jan-26	EPA 6020B	
Iron, total	0.023	AO ≤ 0.1	0.010 mg/L	2-Jan-26	EPA 6020B	
Lead, total	<0.00020	MAC = 0.005	0.00020 mg/L	2-Jan-26	EPA 6020B	
Lithium, total	0.00308		0.00010 mg/L	2-Jan-26	EPA 6020B	

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ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Fire Hall (N25L042-03), Sampled: 22-Dec-2025 09:52						
Total Metals						
Magnesium, total	6.67	None Required	0.010 mg/L	2-Jan-26	EPA 6020B	
Manganese, total	0.149	MAC = 0.12 AO <= 0.02	0.00020 mg/L	2-Jan-26	EPA 6020B	
Mercury, total	<0.000010	MAC = 0.001	0.000010 mg/L	5-Jan-26	EPA 245.7*	
Molybdenum, total	0.00425		0.00010 mg/L	2-Jan-26	EPA 6020B	
Nickel, total	<0.00040		0.00040 mg/L	2-Jan-26	EPA 6020B	
Phosphorus, total	0.074		0.050 mg/L	2-Jan-26	EPA 6020B	
Potassium, total	1.23		0.10 mg/L	2-Jan-26	EPA 6020B	
Selenium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Silicon, total	7.1		1.0 mg/L	2-Jan-26	EPA 6020B	
Silver, total	<0.000050	None Required	0.000050 mg/L	2-Jan-26	EPA 6020B	
Sodium, total	68.0	AO <= 200	0.10 mg/L	2-Jan-26	EPA 6020B	
Strontium, total	0.244	MAC = 7	0.0010 mg/L	2-Jan-26	EPA 6020B	
Sulfur, total	<3.0		3.0 mg/L	2-Jan-26	EPA 6020B	
Tellurium, total	<0.00050		0.00050 mg/L	2-Jan-26	EPA 6020B	
Thallium, total	<0.000020		0.000020 mg/L	2-Jan-26	EPA 6020B	
Thorium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Tin, total	<0.00020		0.00020 mg/L	2-Jan-26	EPA 6020B	
Titanium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Tungsten, total	<0.0010		0.0010 mg/L	2-Jan-26	EPA 6020B	
Uranium, total	0.000567	MAC = 0.02	0.000020 mg/L	2-Jan-26	EPA 6020B	
Vanadium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Zinc, total	<0.0040	AO <= 5	0.0040 mg/L	2-Jan-26	EPA 6020B	
Zirconium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	

ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Town Office (N25L042-04), Sampled: 22-Dec-2025 10:30						
Anions						
Chloride	16.9	AO ≤ 250	1.0 mg/L	6-Jan-26	SM 4500-Cl D	
Fluoride	0.14	MAC = 1.5	0.10 mg/L	5-Jan-26	SM 4500-F C	
Nitrite (as N)	0.02	MAC = 1	0.01 mg/L	24-Dec-25	SM 4500-NO2 B	
Nitrate + Nitrite (as N)	0.15	MAC = 10	0.10 mg/L	24-Dec-25	SM 4500-NO3 E	
Sulfate	2.1	AO ≤ 500	1.0 mg/L	4-Jan-26	SM 4110 B (2020)	
General Parameters						
pH	7.8	7 - 10.5	1.0 pH units	24-Dec-25	SM 4500-H B	
Alkalinity (total, as CaCO ₃)	210		5 mg/L	24-Dec-25	SM 2320 B	
Conductivity	430		1.0 uS/cm	24-Dec-25	SM 2510 B	
Colour	2	AO ≤ 15	1 PtCo units	24-Dec-25	SM 2120 C	
Turbidity	0.21	OG < 1	0.05 NTU	24-Dec-25	SM 2130 B	
Solids, Total Dissolved / TDS	270	AO ≤ 500	1.0 mg/L	24-Dec-25	SM 2540 C	
Carbon, Total Organic	1.44		0.50 mg/L	5-Jan-26	SM 5310 B (2022)	
Ammonia (total as N)	0.09		0.03 mg/L	7-Jan-26	SM 4500-NH3 D	
Nitrogen, Total Kjeldahl	0.127		0.050 mg/L	2-Jan-26	SM 4500-Norg D* (2021)	
Calculated Parameters						
Nitrate (as N)	0.13	MAC = 10	0.10 mg/L	7-Jan-26	[CALC]	
Nitrogen, organic	<0.0500		0.0500 mg/L	7-Jan-26	[CALC]	
Hardness, Total (as CaCO ₃)	87.3	None Required	0.500 mg/L	2-Jan-26	SM 2340 B* (2021)	
Total Metals						
Aluminum, total	<0.0050	OG < 0.1 MAC = 2.9	0.0050 mg/L	2-Jan-26	EPA 6020B	
Antimony, total	<0.00020	MAC = 0.006	0.00020 mg/L	2-Jan-26	EPA 6020B	
Arsenic, total	0.00178	MAC = 0.01	0.00050 mg/L	2-Jan-26	EPA 6020B	
Barium, total	0.0903	MAC = 2	0.0050 mg/L	2-Jan-26	EPA 6020B	
Beryllium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Bismuth, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Boron, total	0.0508	MAC = 5	0.0500 mg/L	2-Jan-26	EPA 6020B	
Cadmium, total	<0.000010	MAC = 0.007	0.000010 mg/L	2-Jan-26	EPA 6020B	
Calcium, total	22.5	None Required	0.20 mg/L	2-Jan-26	EPA 6020B	
Chromium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Cobalt, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Copper, total	0.0229	MAC = 2 AO ≤ 1	0.00040 mg/L	2-Jan-26	EPA 6020B	
Iron, total	<0.010	AO ≤ 0.1	0.010 mg/L	2-Jan-26	EPA 6020B	
Lead, total	<0.00020	MAC = 0.005	0.00020 mg/L	2-Jan-26	EPA 6020B	
Lithium, total	0.00311		0.00010 mg/L	2-Jan-26	EPA 6020B	

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ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Town Office (N25L042-04), Sampled: 22-Dec-2025 10:30						
Total Metals						
Magnesium, total	7.58	None Required	0.010 mg/L	2-Jan-26	EPA 6020B	
Manganese, total	0.107	MAC = 0.12 AO <= 0.02	0.00020 mg/L	2-Jan-26	EPA 6020B	
Mercury, total	<0.000010	MAC = 0.001	0.000010 mg/L	5-Jan-26	EPA 245.7*	
Molybdenum, total	0.00395		0.00010 mg/L	2-Jan-26	EPA 6020B	
Nickel, total	<0.00040		0.00040 mg/L	2-Jan-26	EPA 6020B	
Phosphorus, total	0.056		0.050 mg/L	2-Jan-26	EPA 6020B	
Potassium, total	1.46		0.10 mg/L	2-Jan-26	EPA 6020B	
Selenium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Silicon, total	6.9		1.0 mg/L	2-Jan-26	EPA 6020B	
Silver, total	<0.000050	None Required	0.000050 mg/L	2-Jan-26	EPA 6020B	
Sodium, total	67.0	AO <= 200	0.10 mg/L	2-Jan-26	EPA 6020B	
Strontium, total	0.289	MAC = 7	0.0010 mg/L	2-Jan-26	EPA 6020B	
Sulfur, total	<3.0		3.0 mg/L	2-Jan-26	EPA 6020B	
Tellurium, total	<0.00050		0.00050 mg/L	2-Jan-26	EPA 6020B	
Thallium, total	<0.000020		0.000020 mg/L	2-Jan-26	EPA 6020B	
Thorium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Tin, total	<0.00020		0.00020 mg/L	2-Jan-26	EPA 6020B	
Titanium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Tungsten, total	<0.0010		0.0010 mg/L	2-Jan-26	EPA 6020B	
Uranium, total	0.000632	MAC = 0.02	0.000020 mg/L	2-Jan-26	EPA 6020B	
Vanadium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Zinc, total	<0.0040	AO <= 5	0.0040 mg/L	2-Jan-26	EPA 6020B	
Zirconium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	

ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Works Yard (N25L042-05), Sampled: 22-Dec-2025 11:39						
Anions						
Chloride	13.4	AO ≤ 250	1.0 mg/L	6-Jan-26	SM 4500-Cl D	
Fluoride	0.15	MAC = 1.5	0.10 mg/L	5-Jan-26	SM 4500-F C	
Nitrite (as N)	<0.01	MAC = 1	0.01 mg/L	24-Dec-25	SM 4500-NO2 B	
Nitrate + Nitrite (as N)	<0.10	MAC = 10	0.10 mg/L	24-Dec-25	SM 4500-NO3 E	
Sulfate	3.3	AO ≤ 500	1.0 mg/L	4-Jan-26	SM 4110 B (2020)	
General Parameters						
pH	7.8	7 - 10.5	1.0 pH units	24-Dec-25	SM 4500-H B	
Alkalinity (total, as CaCO ₃)	210		5 mg/L	24-Dec-25	SM 2320 B	
Conductivity	422		1.0 uS/cm	24-Dec-25	SM 2510 B	
Colour	3	AO ≤ 15	1 PtCo units	24-Dec-25	SM 2120 C	
Turbidity	0.18	OG < 1	0.05 NTU	24-Dec-25	SM 2130 B	
Solids, Total Dissolved / TDS	270	AO ≤ 500	1.0 mg/L	24-Dec-25	SM 2540 C	
Carbon, Total Organic	0.97		0.50 mg/L	5-Jan-26	SM 5310 B (2022)	
Ammonia (total as N)	0.17		0.03 mg/L	7-Jan-26	SM 4500-NH3 D	
Nitrogen, Total Kjeldahl	0.198		0.050 mg/L	2-Jan-26	SM 4500-Norg D* (2021)	
Calculated Parameters						
Nitrate (as N)	<0.10	MAC = 10	0.10 mg/L	7-Jan-26	[CALC]	
Nitrogen, organic	<0.0500		0.0500 mg/L	7-Jan-26	[CALC]	
Hardness, Total (as CaCO ₃)	82.0	None Required	0.500 mg/L	2-Jan-26	SM 2340 B* (2021)	
Total Metals						
Aluminum, total	<0.0050	OG < 0.1 MAC = 2.9	0.0050 mg/L	2-Jan-26	EPA 6020B	
Antimony, total	<0.00020	MAC = 0.006	0.00020 mg/L	2-Jan-26	EPA 6020B	
Arsenic, total	0.00165	MAC = 0.01	0.00050 mg/L	2-Jan-26	EPA 6020B	
Barium, total	0.0909	MAC = 2	0.0050 mg/L	2-Jan-26	EPA 6020B	
Beryllium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Bismuth, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Boron, total	0.0508	MAC = 5	0.0500 mg/L	2-Jan-26	EPA 6020B	
Cadmium, total	<0.000010	MAC = 0.007	0.000010 mg/L	2-Jan-26	EPA 6020B	
Calcium, total	21.8	None Required	0.20 mg/L	2-Jan-26	EPA 6020B	
Chromium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Cobalt, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Copper, total	0.00158	MAC = 2 AO ≤ 1	0.00040 mg/L	2-Jan-26	EPA 6020B	
Iron, total	<0.010	AO ≤ 0.1	0.010 mg/L	2-Jan-26	EPA 6020B	
Lead, total	<0.00020	MAC = 0.005	0.00020 mg/L	2-Jan-26	EPA 6020B	
Lithium, total	0.00329		0.00010 mg/L	2-Jan-26	EPA 6020B	

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ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Works Yard (N25L042-05), Sampled: 22-Dec-2025 11:39						
Total Metals						
Magnesium, total	6.68	None Required	0.010 mg/L	2-Jan-26	EPA 6020B	
Manganese, total	0.131	MAC = 0.12 AO <= 0.02	0.00020 mg/L	2-Jan-26	EPA 6020B	
Mercury, total	<0.000010	MAC = 0.001	0.000010 mg/L	5-Jan-26	EPA 245.7*	
Molybdenum, total	0.00440		0.00010 mg/L	2-Jan-26	EPA 6020B	
Nickel, total	<0.00040		0.00040 mg/L	2-Jan-26	EPA 6020B	
Phosphorus, total	0.065		0.050 mg/L	2-Jan-26	EPA 6020B	
Potassium, total	1.39		0.10 mg/L	2-Jan-26	EPA 6020B	
Selenium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Silicon, total	7.2		1.0 mg/L	2-Jan-26	EPA 6020B	
Silver, total	<0.000050	None Required	0.000050 mg/L	2-Jan-26	EPA 6020B	
Sodium, total	70.6	AO <= 200	0.10 mg/L	2-Jan-26	EPA 6020B	
Strontium, total	0.275	MAC = 7	0.0010 mg/L	2-Jan-26	EPA 6020B	
Sulfur, total	<3.0		3.0 mg/L	2-Jan-26	EPA 6020B	
Tellurium, total	<0.00050		0.00050 mg/L	2-Jan-26	EPA 6020B	
Thallium, total	<0.000020		0.000020 mg/L	2-Jan-26	EPA 6020B	
Thorium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Tin, total	<0.00020		0.00020 mg/L	2-Jan-26	EPA 6020B	
Titanium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Tungsten, total	<0.0010		0.0010 mg/L	2-Jan-26	EPA 6020B	
Uranium, total	0.000648	MAC = 0.02	0.000020 mg/L	2-Jan-26	EPA 6020B	
Vanadium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Zinc, total	0.0226	AO <= 5	0.0040 mg/L	2-Jan-26	EPA 6020B	
Zirconium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	

ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Airport Well (N25L042-06), Sampled: 22-Dec-2025 11:32						
Anions						
Chloride	2.1	AO ≤ 250	1.0 mg/L	6-Jan-26	SM 4500-Cl D	
Fluoride	0.14	MAC = 1.5	0.10 mg/L	5-Jan-26	SM 4500-F C	
Nitrite (as N)	<0.01	MAC = 1	0.01 mg/L	24-Dec-25	SM 4500-NO2 B	
Nitrate + Nitrite (as N)	<0.10	MAC = 10	0.10 mg/L	24-Dec-25	SM 4500-NO3 E	
Sulfate	66.2	AO ≤ 500	1.0 mg/L	4-Jan-26	SM 4110 B (2020)	
General Parameters						
pH	7.7	7 - 10.5	1.0 pH units	24-Dec-25	SM 4500-H B	
Alkalinity (total, as CaCO ₃)	320		5 mg/L	24-Dec-25	SM 2320 B	
Conductivity	695		1.0 uS/cm	24-Dec-25	SM 2510 B	
Colour	4	AO ≤ 15	1 PtCo units	24-Dec-25	SM 2120 C	
Turbidity	0.25	OG < 1	0.05 NTU	24-Dec-25	SM 2130 B	
Solids, Total Dissolved / TDS	430	AO ≤ 500	1.0 mg/L	24-Dec-25	SM 2540 C	
Carbon, Total Organic	0.81		0.50 mg/L	5-Jan-26	SM 5310 B (2022)	
Ammonia (total as N)	0.30		0.03 mg/L	7-Jan-26	SM 4500-NH3 D	
Nitrogen, Total Kjeldahl	0.339		0.050 mg/L	2-Jan-26	SM 4500-Norg D* (2021)	
Calculated Parameters						
Nitrate (as N)	<0.10	MAC = 10	0.10 mg/L	7-Jan-26	[CALC]	
Nitrogen, organic	<0.0500		0.0500 mg/L	7-Jan-26	[CALC]	
Hardness, Total (as CaCO ₃)	282	None Required	0.500 mg/L	2-Jan-26	SM 2340 B* (2021)	
Total Metals						
Aluminum, total	<0.0050	OG < 0.1 MAC = 2.9	0.0050 mg/L	2-Jan-26	EPA 6020B	
Antimony, total	<0.00020	MAC = 0.006	0.00020 mg/L	2-Jan-26	EPA 6020B	
Arsenic, total	0.00185	MAC = 0.01	0.00050 mg/L	2-Jan-26	EPA 6020B	
Barium, total	0.106	MAC = 2	0.0050 mg/L	2-Jan-26	EPA 6020B	
Beryllium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Bismuth, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Boron, total	0.0974	MAC = 5	0.0500 mg/L	2-Jan-26	EPA 6020B	
Cadmium, total	<0.000010	MAC = 0.007	0.000010 mg/L	2-Jan-26	EPA 6020B	
Calcium, total	58.7	None Required	0.20 mg/L	2-Jan-26	EPA 6020B	
Chromium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Cobalt, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Copper, total	<0.00040	MAC = 2 AO ≤ 1	0.00040 mg/L	2-Jan-26	EPA 6020B	
Iron, total	0.041	AO ≤ 0.1	0.010 mg/L	2-Jan-26	EPA 6020B	
Lead, total	<0.00020	MAC = 0.005	0.00020 mg/L	2-Jan-26	EPA 6020B	
Lithium, total	0.00185		0.00010 mg/L	2-Jan-26	EPA 6020B	

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ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Airport Well (N25L042-06), Sampled: 22-Dec-2025 11:32						
Total Metals						
Magnesium, total	32.8	None Required	0.010 mg/L	2-Jan-26	EPA 6020B	
Manganese, total	0.669	MAC = 0.12 AO <= 0.02	0.00020 mg/L	2-Jan-26	EPA 6020B	
Mercury, total	<0.000010	MAC = 0.001	0.000010 mg/L	5-Jan-26	EPA 245.7*	
Molybdenum, total	0.0121		0.00010 mg/L	2-Jan-26	EPA 6020B	
Nickel, total	<0.00040		0.00040 mg/L	2-Jan-26	EPA 6020B	
Phosphorus, total	<0.050		0.050 mg/L	2-Jan-26	EPA 6020B	
Potassium, total	1.85		0.10 mg/L	2-Jan-26	EPA 6020B	
Selenium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Silicon, total	8.6		1.0 mg/L	2-Jan-26	EPA 6020B	
Silver, total	<0.000050	None Required	0.000050 mg/L	2-Jan-26	EPA 6020B	
Sodium, total	48.8	AO <= 200	0.10 mg/L	2-Jan-26	EPA 6020B	
Strontium, total	0.627	MAC = 7	0.0010 mg/L	2-Jan-26	EPA 6020B	
Sulfur, total	23.5		3.0 mg/L	2-Jan-26	EPA 6020B	
Tellurium, total	<0.00050		0.00050 mg/L	2-Jan-26	EPA 6020B	
Thallium, total	<0.000020		0.000020 mg/L	2-Jan-26	EPA 6020B	
Thorium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Tin, total	<0.00020		0.00020 mg/L	2-Jan-26	EPA 6020B	
Titanium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Tungsten, total	<0.0010		0.0010 mg/L	2-Jan-26	EPA 6020B	
Uranium, total	0.00215	MAC = 0.02	0.000020 mg/L	2-Jan-26	EPA 6020B	
Vanadium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Zinc, total	<0.0040	AO <= 5	0.0040 mg/L	2-Jan-26	EPA 6020B	
Zirconium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	

ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Old Airport Wellhead (N25L042-07) , Sampled: 22-Dec-2025 10:42						
Anions						
Chloride	3.3	AO ≤ 250	1.0 mg/L	6-Jan-26	SM 4500-Cl D	
Fluoride	0.13	MAC = 1.5	0.10 mg/L	5-Jan-26	SM 4500-F C	
Nitrite (as N)	<0.01	MAC = 1	0.01 mg/L	24-Dec-25	SM 4500-NO2 B	
Nitrate + Nitrite (as N)	<0.10	MAC = 10	0.10 mg/L	24-Dec-25	SM 4500-NO3 E	
Sulfate	90.2	AO ≤ 500	1.0 mg/L	4-Jan-26	SM 4110 B (2020)	
General Parameters						
pH	7.7	7 - 10.5	1.0 pH units	24-Dec-25	SM 4500-H B	
Alkalinity (total, as CaCO ₃)	320		5 mg/L	24-Dec-25	SM 2320 B	
Conductivity	744		1.0 uS/cm	24-Dec-25	SM 2510 B	
Colour	7	AO ≤ 15	1 PtCo units	24-Dec-25	SM 2120 C	
Turbidity	1.78	OG < 1	0.05 NTU	24-Dec-25	SM 2130 B	
Solids, Total Dissolved / TDS	460	AO ≤ 500	1.0 mg/L	24-Dec-25	SM 2540 C	
Carbon, Total Organic	0.99		0.50 mg/L	5-Jan-26	SM 5310 B (2022)	
Ammonia (total as N)	0.45		0.03 mg/L	7-Jan-26	SM 4500-NH3 D	
Nitrogen, Total Kjeldahl	0.498		0.050 mg/L	2-Jan-26	SM 4500-Norg D* (2021)	
Calculated Parameters						
Nitrate (as N)	<0.10	MAC = 10	0.10 mg/L	7-Jan-26	[CALC]	
Nitrogen, organic	<0.0500		0.0500 mg/L	7-Jan-26	[CALC]	
Hardness, Total (as CaCO ₃)	328	None Required	0.500 mg/L	2-Jan-26	SM 2340 B* (2021)	
Total Metals						
Aluminum, total	<0.0050	OG < 0.1 MAC = 2.9	0.0050 mg/L	2-Jan-26	EPA 6020B	
Antimony, total	<0.00020	MAC = 0.006	0.00020 mg/L	2-Jan-26	EPA 6020B	
Arsenic, total	0.00311	MAC = 0.01	0.00050 mg/L	2-Jan-26	EPA 6020B	
Barium, total	0.110	MAC = 2	0.0050 mg/L	2-Jan-26	EPA 6020B	
Beryllium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Bismuth, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Boron, total	0.127	MAC = 5	0.0500 mg/L	2-Jan-26	EPA 6020B	
Cadmium, total	<0.000010	MAC = 0.007	0.000010 mg/L	2-Jan-26	EPA 6020B	
Calcium, total	66.4	None Required	0.20 mg/L	2-Jan-26	EPA 6020B	
Chromium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Cobalt, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Copper, total	<0.00040	MAC = 2 AO ≤ 1	0.00040 mg/L	2-Jan-26	EPA 6020B	
Iron, total	0.225	AO ≤ 0.1	0.010 mg/L	2-Jan-26	EPA 6020B	
Lead, total	<0.00020	MAC = 0.005	0.00020 mg/L	2-Jan-26	EPA 6020B	
Lithium, total	0.00191		0.00010 mg/L	2-Jan-26	EPA 6020B	

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ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Old Airport Wellhead (N25L042-07) , Sampled: 22-Dec-2025 10:42						
Total Metals						
Magnesium, total	39.3	None Required	0.010 mg/L	2-Jan-26	EPA 6020B	
Manganese, total	0.766	MAC = 0.12 AO <= 0.02	0.00020 mg/L	2-Jan-26	EPA 6020B	
Mercury, total	<0.000010	MAC = 0.001	0.000010 mg/L	5-Jan-26	EPA 245.7*	
Molybdenum, total	0.0117		0.00010 mg/L	2-Jan-26	EPA 6020B	
Nickel, total	<0.00040		0.00040 mg/L	2-Jan-26	EPA 6020B	
Phosphorus, total	0.059		0.050 mg/L	2-Jan-26	EPA 6020B	
Potassium, total	1.99		0.10 mg/L	2-Jan-26	EPA 6020B	
Selenium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Silicon, total	8.7		1.0 mg/L	2-Jan-26	EPA 6020B	
Silver, total	<0.000050	None Required	0.000050 mg/L	2-Jan-26	EPA 6020B	
Sodium, total	52.1	AO <= 200	0.10 mg/L	2-Jan-26	EPA 6020B	
Strontium, total	0.652	MAC = 7	0.0010 mg/L	2-Jan-26	EPA 6020B	
Sulfur, total	31.1		3.0 mg/L	2-Jan-26	EPA 6020B	
Tellurium, total	<0.00050		0.00050 mg/L	2-Jan-26	EPA 6020B	
Thallium, total	<0.000020		0.000020 mg/L	2-Jan-26	EPA 6020B	
Thorium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Tin, total	<0.00020		0.00020 mg/L	2-Jan-26	EPA 6020B	
Titanium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Tungsten, total	<0.0010		0.0010 mg/L	2-Jan-26	EPA 6020B	
Uranium, total	0.00229	MAC = 0.02	0.000020 mg/L	2-Jan-26	EPA 6020B	
Vanadium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Zinc, total	0.0297	AO <= 5	0.0040 mg/L	2-Jan-26	EPA 6020B	
Zirconium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	

ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Victoria Well (N25L042-08) , Sampled: 22-Dec-2025 11:32						
Anions						
Chloride	7.2	AO ≤ 250	1.0 mg/L	6-Jan-26	SM 4500-Cl D	
Fluoride	0.15	MAC = 1.5	0.10 mg/L	5-Jan-26	SM 4500-F C	
Nitrite (as N)	<0.01	MAC = 1	0.01 mg/L	24-Dec-25	SM 4500-NO2 B	
Nitrate + Nitrite (as N)	<0.10	MAC = 10	0.10 mg/L	24-Dec-25	SM 4500-NO3 E	
Sulfate	4.7	AO ≤ 500	1.0 mg/L	4-Jan-26	SM 4110 B (2020)	
General Parameters						
pH	7.9	7 - 10.5	1.0 pH units	24-Dec-25	SM 4500-H B	
Alkalinity (total, as CaCO ₃)	210		5 mg/L	24-Dec-25	SM 2320 B	
Conductivity	413		1.0 uS/cm	24-Dec-25	SM 2510 B	
Colour	5	AO ≤ 15	1 PtCo units	24-Dec-25	SM 2120 C	
Turbidity	0.24	OG < 1	0.05 NTU	24-Dec-25	SM 2130 B	
Solids, Total Dissolved / TDS	260	AO ≤ 500	1.0 mg/L	24-Dec-25	SM 2540 C	
Carbon, Total Organic	0.91		0.50 mg/L	5-Jan-26	SM 5310 B (2022)	
Ammonia (total as N)	0.23		0.03 mg/L	7-Jan-26	SM 4500-NH3 D	
Nitrogen, Total Kjeldahl	0.197		0.050 mg/L	2-Jan-26	SM 4500-Norg D* (2021)	
Calculated Parameters						
Nitrate (as N)	<0.10	MAC = 10	0.10 mg/L	7-Jan-26	[CALC]	
Nitrogen, organic	<0.0500		0.0500 mg/L	7-Jan-26	[CALC]	
Hardness, Total (as CaCO ₃)	72.9	None Required	0.500 mg/L	2-Jan-26	SM 2340 B* (2021)	
Total Metals						
Aluminum, total	<0.0050	OG < 0.1 MAC = 2.9	0.0050 mg/L	2-Jan-26	EPA 6020B	
Antimony, total	<0.00020	MAC = 0.006	0.00020 mg/L	2-Jan-26	EPA 6020B	
Arsenic, total	0.00222	MAC = 0.01	0.00050 mg/L	2-Jan-26	EPA 6020B	
Barium, total	0.0971	MAC = 2	0.0050 mg/L	2-Jan-26	EPA 6020B	
Beryllium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Bismuth, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Boron, total	0.0502	MAC = 5	0.0500 mg/L	2-Jan-26	EPA 6020B	
Cadmium, total	<0.000010	MAC = 0.007	0.000010 mg/L	2-Jan-26	EPA 6020B	
Calcium, total	18.7	None Required	0.20 mg/L	2-Jan-26	EPA 6020B	
Chromium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Cobalt, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Copper, total	0.00682	MAC = 2 AO ≤ 1	0.00040 mg/L	2-Jan-26	EPA 6020B	
Iron, total	<0.010	AO ≤ 0.1	0.010 mg/L	2-Jan-26	EPA 6020B	
Lead, total	0.00089	MAC = 0.005	0.00020 mg/L	2-Jan-26	EPA 6020B	
Lithium, total	0.00366		0.00010 mg/L	2-Jan-26	EPA 6020B	

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ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Victoria Well (N25L042-08), Sampled: 22-Dec-2025 11:32						
Total Metals						
Magnesium, total	6.35	None Required	0.010 mg/L	2-Jan-26	EPA 6020B	
Manganese, total	0.109	MAC = 0.12 AO <= 0.02	0.00020 mg/L	2-Jan-26	EPA 6020B	
Mercury, total	<0.000010	MAC = 0.001	0.000010 mg/L	2-Jan-26	EPA 245.7*	
Molybdenum, total	0.00488		0.00010 mg/L	2-Jan-26	EPA 6020B	
Nickel, total	<0.00040		0.00040 mg/L	2-Jan-26	EPA 6020B	
Phosphorus, total	0.058		0.050 mg/L	2-Jan-26	EPA 6020B	
Potassium, total	1.36		0.10 mg/L	2-Jan-26	EPA 6020B	
Selenium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Silicon, total	7.5		1.0 mg/L	2-Jan-26	EPA 6020B	
Silver, total	<0.000050	None Required	0.000050 mg/L	2-Jan-26	EPA 6020B	
Sodium, total	76.1	AO <= 200	0.10 mg/L	2-Jan-26	EPA 6020B	
Strontium, total	0.257	MAC = 7	0.0010 mg/L	2-Jan-26	EPA 6020B	
Sulfur, total	<3.0		3.0 mg/L	2-Jan-26	EPA 6020B	
Tellurium, total	<0.00050		0.00050 mg/L	2-Jan-26	EPA 6020B	
Thallium, total	<0.000020		0.000020 mg/L	2-Jan-26	EPA 6020B	
Thorium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Tin, total	0.00027		0.00020 mg/L	2-Jan-26	EPA 6020B	
Titanium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Tungsten, total	<0.0010		0.0010 mg/L	2-Jan-26	EPA 6020B	
Uranium, total	0.000637	MAC = 0.02	0.000020 mg/L	2-Jan-26	EPA 6020B	
Vanadium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Zinc, total	0.0063	AO <= 5	0.0040 mg/L	2-Jan-26	EPA 6020B	
Zirconium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	

ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Airport Maintenance Shop (N25L042-09) , Sampled: 22-Dec-2025 10:50						
Anions						
Chloride	10.2	AO ≤ 250	1.0 mg/L	6-Jan-26	SM 4500-Cl D	
Fluoride	0.13	MAC = 1.5	0.10 mg/L	5-Jan-26	SM 4500-F C	
Nitrite (as N)	<0.01	MAC = 1	0.01 mg/L	24-Dec-25	SM 4500-NO2 B	
Nitrate + Nitrite (as N)	<0.10	MAC = 10	0.10 mg/L	24-Dec-25	SM 4500-NO3 E	
Sulfate	66.3	AO ≤ 500	1.0 mg/L	4-Jan-26	SM 4110 B (2020)	
General Parameters						
pH	7.8	7 - 10.5	1.0 pH units	24-Dec-25	SM 4500-H B	
Alkalinity (total, as CaCO ₃)	300		5 mg/L	24-Dec-25	SM 2320 B	
Conductivity	693		1.0 uS/cm	24-Dec-25	SM 2510 B	
Colour	<1	AO ≤ 15	1 PtCo units	24-Dec-25	SM 2120 C	
Turbidity	1.26	OG < 1	0.05 NTU	24-Dec-25	SM 2130 B	
Solids, Total Dissolved / TDS	430	AO ≤ 500	1.0 mg/L	24-Dec-25	SM 2540 C	
Carbon, Total Organic	0.56		0.50 mg/L	5-Jan-26	SM 5310 B (2022)	
Ammonia (total as N)	0.07		0.03 mg/L	7-Jan-26	SM 4500-NH3 D	
Nitrogen, Total Kjeldahl	<0.050		0.050 mg/L	2-Jan-26	SM 4500-Norg D* (2021)	
Calculated Parameters						
Nitrate (as N)	<0.10	MAC = 10	0.10 mg/L	7-Jan-26	[CALC]	
Nitrogen, organic	<0.0500		0.0500 mg/L	7-Jan-26	[CALC]	
Hardness, Total (as CaCO ₃)	280	None Required	0.500 mg/L	2-Jan-26	SM 2340 B* (2021)	
Total Metals						
Aluminum, total	<0.0050	OG < 0.1 MAC = 2.9	0.0050 mg/L	2-Jan-26	EPA 6020B	
Antimony, total	<0.00020	MAC = 0.006	0.00020 mg/L	2-Jan-26	EPA 6020B	
Arsenic, total	0.00092	MAC = 0.01	0.00050 mg/L	2-Jan-26	EPA 6020B	
Barium, total	0.0561	MAC = 2	0.0050 mg/L	2-Jan-26	EPA 6020B	
Beryllium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Bismuth, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Boron, total	0.0975	MAC = 5	0.0500 mg/L	2-Jan-26	EPA 6020B	
Cadmium, total	<0.000010	MAC = 0.007	0.000010 mg/L	2-Jan-26	EPA 6020B	
Calcium, total	56.7	None Required	0.20 mg/L	2-Jan-26	EPA 6020B	
Chromium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Cobalt, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Copper, total	0.0151	MAC = 2 AO ≤ 1	0.00040 mg/L	2-Jan-26	EPA 6020B	
Iron, total	0.358	AO ≤ 0.1	0.010 mg/L	2-Jan-26	EPA 6020B	
Lead, total	0.00021	MAC = 0.005	0.00020 mg/L	2-Jan-26	EPA 6020B	
Lithium, total	0.00163		0.00010 mg/L	2-Jan-26	EPA 6020B	

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ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Analyte	Result	Guideline (CDWQG)	MRL Units	Analyzed	Method Ref.	Notes
Sample ID: Airport Maintenance Shop (N25L042-09), Sampled: 22-Dec-2025 10:50						
Total Metals						
Magnesium, total	33.6	None Required	0.010 mg/L	2-Jan-26	EPA 6020B	
Manganese, total	0.00617	MAC = 0.12 AO <= 0.02	0.00020 mg/L	2-Jan-26	EPA 6020B	
Mercury, total	<0.000010	MAC = 0.001	0.000010 mg/L	5-Jan-26	EPA 245.7*	
Molybdenum, total	0.00739		0.00010 mg/L	2-Jan-26	EPA 6020B	
Nickel, total	<0.00040		0.00040 mg/L	2-Jan-26	EPA 6020B	
Phosphorus, total	0.065		0.050 mg/L	2-Jan-26	EPA 6020B	
Potassium, total	1.89		0.10 mg/L	2-Jan-26	EPA 6020B	
Selenium, total	<0.00050	MAC = 0.05	0.00050 mg/L	2-Jan-26	EPA 6020B	
Silicon, total	7.8		1.0 mg/L	2-Jan-26	EPA 6020B	
Silver, total	<0.000050	None Required	0.000050 mg/L	2-Jan-26	EPA 6020B	
Sodium, total	58.3	AO <= 200	0.10 mg/L	2-Jan-26	EPA 6020B	
Strontium, total	0.565	MAC = 7	0.0010 mg/L	2-Jan-26	EPA 6020B	
Sulfur, total	25.3		3.0 mg/L	2-Jan-26	EPA 6020B	
Tellurium, total	<0.00050		0.00050 mg/L	2-Jan-26	EPA 6020B	
Thallium, total	<0.000020		0.000020 mg/L	2-Jan-26	EPA 6020B	
Thorium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	
Tin, total	<0.00020		0.00020 mg/L	2-Jan-26	EPA 6020B	
Titanium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Tungsten, total	<0.0010		0.0010 mg/L	2-Jan-26	EPA 6020B	
Uranium, total	0.00200	MAC = 0.02	0.000020 mg/L	2-Jan-26	EPA 6020B	
Vanadium, total	<0.0050		0.0050 mg/L	2-Jan-26	EPA 6020B	
Zinc, total	0.0065	AO <= 5	0.0040 mg/L	2-Jan-26	EPA 6020B	
Zirconium, total	<0.00010		0.00010 mg/L	2-Jan-26	EPA 6020B	

ANALYTICAL REPORT

Town of Smithers

Work Order: N25L042

Glossary of Terms

MRL	Method Reporting Limit
<	Less than the reported detection limit (RDL).
>	Greater than the reported value.

Units

uS/cm	Micro Siemens per centimeter
PtCo units	Platinum Colbalt colour units
pH units	pH units
NTU	Nephelometric Turbidity Units
mg/L	Milligrams per Litre

Method

SM 5310 B (2022)	Carbon, Total Organic
SM 4500-Norg D* (2021)	Kjeldahl Nitrogen, Total
SM 4500-NO3 E	Standard Methods Online - Nitrate by colorimetry
SM 4500-NO2 B	Standard Methods Online - Nitrite by colorimetry
SM 4500-NH3 D	Standard Methods Online - Ammonia by potentiometry
SM 4500-H B	Standard Methods Online - pH by electrode
SM 4500-F C	Standard Methods Online - Fluoride ion by potentiometry
SM 4500-Cl D	Standard Methods Online - Chloride ion by potentiometry
SM 4110 B (2020)	Anions by IC
SM 2540 C	Standard Methods Online - Total dissolved solids
SM 2510 B	Standard Methods Online - Conductivity by meter
SM 2340 B* (2021)	Total Metals by ICPMS
SM 2320 B	Standard Methods Online - Alkalinity by titration
SM 2130 B	Standard Methods Online - Turbidity by nephelometry
SM 2120 C	Standard Methods Online - Colour by spectrophotometry
EPA 6020B	Total Metals by ICPMS
EPA 245.7*	Mercury by CVAFS

Guidelines Referenced

CDWQG	Canadian Drinking Water Quality Guidelines (2025) https://www.canada.ca/content/dam/hc-sc/documents/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table/summary-table-pdf-template-eng.pdf
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MAC	Maximum Acceptable Concentration. Values above MAC are formatted with red text and solid outline.
AO	Aesthetic Objective (not health related). Values above AO are formatted with <u>underline</u> and dashed outline.