

Springgate Water Coop

Phone:

Lab Number: 102333

Fax:

Email:

PO Number:

Sample Info: Annual Chem & Baseline
Pump House Well

Sampled By:
Date Sampled: 8/4/2026
Date Received: 8/4/2026
Date Reported: 8/9/2026

TEST REPORT

Analyte	Units	Result	CDW Guideline Maximum	Detection Limit
Calcium	mg/L	98.0	No Guideline	0.04
Iron	mg/L	0.02	AO: 0.1	0.01
Magnesium	mg/L	49.7	No Guideline	0.02
Manganese	mg/L	<0.01	AO: 0.02, MAC: 0.12	0.01
Potassium	mg/L	4.4	No Guideline	0.03
Sodium	mg/L	48	AO: 200	0.04
Bicarbonates	mg/L	447	No Guideline	-
Bromides	mg/L	<0.2	No Guideline	0.2
Carbonates	mg/L	0	No Guideline	-
Chlorides	mg/L	64.8	AO: 250	0.1
Fluorides	mg/L	0.12	MAC: 1.5	0.02
Nitrates as N	mg/L	1.42	MAC: 10	0.04
Nitrites as N	mg/L	<0.05	MAC: 1	0.05
NO ₃ + NO ₂ as N	mg/L	1.42	No Guideline	0.04
Sulfates	mg/L	94	AO: 500	0.9

Parameter	Units	Result	CDW Guideline Maximum	Detection Limit
Electrical Conductivity (at 25°C)	µS/cm	966	No Guideline	0.2
pH	pH	7.87	7.0 - 10.5	-
Hardness (as CaCO ₃)	mg/L	449	No Guideline	0.2
Total Alkalinity (as CaCO ₃)	mg/L	367	No Guideline	3
P-Alkalinity (as CaCO ₃)	mg/L	0	No Guideline	-
Hydroxide (as CaCO ₃)	mg/L	0	No Guideline	-
Total Dissolved Solids (calculated)	mg/L	580	AO: 500	4

Microbiology	Units	Result	CDW Guideline Maximum
Total Coliform	CFU/100 mL	0	MAC: Zero / Absent
Escherichia Coliform	CFU/100 mL	0	MAC: Zero / Absent

Sum of Cations	11.16	TDS / EC Ratio	0.60
Sum of Anions	11.22	Sodium Adsorption Ratio	0.98
Ion Balance	0.99	Saturation Index	0.94

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Trace Metals	Units	Result	CDW Guideline Maximum	Detection Limit
Boron	µg/L	30.5	MAC: 5000	0.3
Aluminum	µg/L	<0.6	OG: 100, MAC: 2900	0.6
Chromium	µg/L	0.08	MAC: 50	0.05
Copper	µg/L	1.34	AO: 1000, MAC: 2000	0.09
Zinc	µg/L	2.7	AO: 5000	0.3
Arsenic	µg/L	0.15	MAC: 10	0.08
Selenium	µg/L	0.57	MAC: 50	0.06
Strontium	µg/L	977	MAC: 7000	0.06
Cadmium	µg/L	<0.06	MAC: 7	0.06
Antimony	µg/L	<0.05	MAC: 6	0.05
Barium	µg/L	40.3	MAC: 2000	0.08
Mercury	µg/L	<0.03	MAC: 1	0.03
Lead	µg/L	0.15	MAC: 5	0.09
Uranium	µg/L	3.29	MAC: 20	0.09

WSH Labs (1992) Ltd. as per: _____

Legalities

Lab Number: 102333

- (1) The results above are related only to the items analyzed.
- (2) Results apply to the sample(s) as received. Date and time sampled are solely provided by the client.
- (3) Analytical determinations were performed in Calgary, AB. 3851B - 21 Street NE.
- (4) Condition of sample(s) upon receipt:
Acceptable
- (5) External provider(s) of laboratory results:

References

- (1) Accredited by CALA to ISO/IEC 17025 for specific tests.
- (2) Guidelines for Canadian Drinking Water Quality are provided courtesy of Health Canada, March 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>

Acronyms & Nomenclatures

< denotes less than detection limit
> denotes greater than
AO = Aesthetic Objective
CDW = Canadian Drinking Water

MAC = Maximum Acceptable Concentration
OG = Operational Guidance Value
TNTC = Too Numerous To Count (>80 colonies)

Standard Methods for the Examination of Water and Wastewater 24th Edition (2023)

Alkalinity. 2320 B. Titration Method.
Ammonia Nitrogen. 4500-NH₃ C. Titrimetric Method.
Anions. 4110 B. Ion Chromatography with Chemical Suppression of Eluent Conductivity.
Biochemical Oxygen Demand. 5210 B. 5-Day BOD Test.
Color. 2120 B. Visual Comparison Method.
Conductivity. 2510 B. Laboratory Method.
Fluoride. 4500-F⁻ C. Ion-Selective Electrode Method.
Hardness. 2340 B. Hardness by Calculation.
Metals. 3125 B. Inductively Coupled Plasma / Mass Spectrometry (ICP-MS) Method.
Organic Carbon. 5310 B. High-Temperature Combustion Method.
pH. 4500-H⁺ B. Electrometric Method.
Total Kjeldahl Nitrogen / Nitrogen (Organic). 4500-Norg B. Macro-Kjeldahl Method.
Total Suspended Solids. 2540 D. Total Suspended Solids Dried at 103-105°C.
Turbidity. 2130 B. Nephelometric Method.

Hach Methods

Chemical Oxygen Demand. Hach Method 8000.
Chlorine, Total & Free. As per Hach CN66 Test Kit Instructions.
Coliforms, Total and E. coli. (Membrane Filtration). Hach Method 10029.
Ortho-Phosphate. Hach Method 8048.
Sulfides. Hach Method 8131.
Tannin & Lignin. Hach Method 8193.
Total Phosphate. Hach Method 8190.