



Northern BC's Environment and Climate Solutions Innovation Hub

Water Analysis Packages

Date: April 2024

Contact Information

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NALS Drinking Water Routine Package:

Physical Tests	Units	Reportable Limit ^b	CDWQ ^a Guidelines
pH		n/a	n/a
Electrical Conductivity	µS/cm	n/a	-
Hardness	mg CaCO ₃ /L	n/a	n/a
Turbidity	NTU	0.02	1
Biological Tests	Units	Reportable Limit ^b	CDWQ ^a Guidelines
<i>E. coli</i>	MPN/100mL	0	0
Total Coliforms	MPN/100mL	0	0
Anion Scan	Units	Reportable Limit ^b	CDWQ ^a Guidelines
Fluoride	mg/L	<0.1	1.5
Chloride	mg/L	<0.1	n/a
Nitrite	mg/L	<0.1	3
Sulphate	mg/L	<0.1	500 (AO)
Bromide	mg/L	<0.1	-
Nitrate	mg/L	<0.1	45
Phosphate	mg/L	<0.3	-
Elemental	Units	Reportable Limit ^b	CDWQ ^a Guidelines
Aluminum	mg/L	<0.02	0.1 (OG)
Arsenic	mg/L	<0.0003	0.01
Boron	mg/L	<0.001	5
Barium	mg/L	<0.0004	1
Calcium	mg/L	<0.005	n/a
Cadmium	mg/L	<0.0004	0.005
Cobalt	mg/L	<0.001	-
Chromium	mg/L	<0.0004	0.05
Copper	mg/L	<0.002	2
Iron	mg/L	<0.003	0.3 (AO)
Potassium	mg/L	<0.003	-
Magnesium	mg/L	<0.001	n/a
Manganese	mg/L	<0.001	0.12
Molybdenum	mg/L	<0.003	-
Sodium	mg/L	<0.002	200 (AO)
Nickel	mg/L	<0.001	-
Phosphorus	mg/L	<0.01	-
Lead	mg/L	<0.004	0.005
Sulfur	mg/L	<0.08	-
Antimony	mg/L	<0.01	0.006
Selenium	mg/L	<0.02	0.05
Tin	mg/L	<0.01	-
Uranium	mg/L	<0.01	0.02
Vanadium	mg/L	<0.001	-
Zinc	mg/L	<0.001	5 (AO)

NALS Water Comprehensive Package:

All parameters included in the “NALS Drinking Water Routine Package” plus the following:

Additional Parameters	Units	CDWQ ^a Guidelines
Heterotrophic Plate Count	MPN/mL	n/a
Langelier Saturation Index	n/a	-
Total Organic Carbon	mg/L	-
Total Suspended Solids	mg/L	-
Total Dissolved Solids	mg/L	500 (AO)
Ammonium-N	mg/L	n/a
Organic-N	mg/L	n/a
Alkalinity	mg CaCO ₃ /L	-
Color	TCU	15 (AO)
Odor	Threshold	Inoffensive

Notes:

- a. Canadian Drinking Water Quality Guidelines Maximum Allowable Limits (<https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html#t2>). (n/a = not applicable as guidelines have no stated limit, AO= aesthetic objective, OG= operational guidelines, and “-“ means not found in the guidelines).
- b. Reportable Limits may have the potential to change and will be updated accordingly.
- c. For testing other parameters of your water sample(s) that are not included in this package, or if you need to discuss your specific analytical needs, please contact the NALS.

Service Disclaimer:

Please be informed that the Northern Analytical Lab Services (NALS) is a lab certified by an external body. The NALS is certified for water microbiology testing with the BC Provincial Health Officer and is accredited to ISO 17025:2017 with the Standards Council of Canada. To view a complete list of testing under our Scope of Accreditation, please visit: nals.unbc.ca/LINKS. NALS testing packages and any associated analyses are not offered as commercial services. NALS at UNBC is a community resource and has developed its services to help local communities who do not have access to other testing facilities in their region. Acceptance of samples for analysis does not guarantee service. At any time NALS may request further sample(s) to be resubmitted on an as-needed basis for completion of any requested services. Any such costs associated with re-sampling are not the responsibility of NALS and are assumed by the client. Data in any report prepared by NALS refers strictly to the supplied sample(s) at the time and place of testing without reference to any other matter. All such data will be regarded as confidential but specific data security requirements are the responsibility of the client. Clients retain responsibility for all oversight of sampling procedures not performed by NALS. NALS is not responsible for losses or damage incurred by use of its services, including but not limited to loss or damage of supplied sample(s). Editing of this report is not permissible and client assumes all responsibility for conveyance of data outside of this report. The results in this report relate only to the items calibrated, or sampled as specified in this report. All revised reports will supersede all prior reports.

Pricing for Water Packages:

A. Physical Tests (pH, EC, Turbidity): \$30.00/sample
B. Elemental Analysis (25 elements) + Hardness: \$85.00/sample
C. Dissolved Anions (7 anions suite): \$60.00/sample
D. Physical and Chemical Parameters (A+B+C): \$140/sample
E. Bacteriological (<i>E. coli</i> and Total Coliforms): \$90.00/sample
F. NALS Drinking Water Routine Package (D+E): \$200.00/sample
G. Heterotrophic Plate Count (HPC): \$50.00/sample
H. Langelier Saturation Index (LSI): \$10.00/sample (if asked with associated parameters)
I. Total Organic Carbon (TOC): \$35.00/sample
J. Total Suspended and Dissolved Solids (TSS and TDS): \$33.00/sample
K. Ammonium-N and Organic-N: \$115.00/sample
L. Alkalinity: \$35.00/sample
M. Color and Odor: \$35.00/sample
N. NALS Water Comprehensive Package (F+G+H+I+J+K+L+M): \$450.00/sample

* All samples are subject to a sample handling/admin fee of 8% which is not included in the package price.

If you need to ship your samples to us, find the address below:

Attn: Northern Analytical Laboratory Services (NALS); University of Northern British Columbia (UNBC),
3333 University Way, Prince George, BC, Canada V2N 4Z9

You can also drop your sample at the lab - UNBC Prince George Campus - Room # 4-234
Direction on Google maps: <https://goo.gl/mun6v1>