

Phone: (403) 250-9164 • Fax: (403) 291-4597 • www.wshlabs.com

Aaron Drilling Inc.

211 - 3 Street NE, PO Box 434 Black Diamond, AB T0L 0H0

Sample Info: 9492

Phone: (403) 938-4961

Fax: (403) 938-3324

Email:

103) 930-3324

PO Number:

Lab Number:

92051

Sampled By:

 Date Sampled:
 1/27/2022

 Date Received:
 1/27/2022

 Date Reported:
 1/28/2022

TEST REPORT

Analyte	Units	Result	CDW Guideline Maximum	Detection Limit
Calcium	mg/L	21.7	No Guideline	0.02
Iron	mg/L	0.05	AO: 0.3	0.03
Magnesium	mg/L	12.8	No Guideline	0.02
Manganese	mg/L	0.02	AO: 0.02, MAC: 0.12	0.01
Potassium	mg/L	1.9	No Guideline	0.02
Sodium	mg/L	149	AO: 200	0.02
Bicarbonates	mg/L	358	No Guideline	-
Bromides	mg/L	<0.2	No Guideline	0.2
Carbonates	mg/L	0	No Guideline	-
Chlorides	mg/L	7.4	AO: 250	0.1
Fluorides	mg/L	0.48	MAC: 1.5	0.02
Nitrates as N	mg/L	0.11	MAC: 10	0.04
Nitrites as N	mg/L	< 0.05	MAC: 1	0.05
NO ₃ + NO ₂ as N	mg/L	0.11	No Guideline	0.04
Sulfates	mg/L	123	AO: 500	0.9

Parameter	Units	Result	CDW Guideline Maximum	Detection Limit
Electrical Conductivity (at 25°C)	μS/cm	834	No Guideline	0.2
рН	рН	8.25	7.0 - 10.5	-
Hardness (as CaCO ₃)	mg/L	107	No Guideline	0.1
Total Alkalinity (as CaCO ₃)	mg/L	294	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	493	AO: 500	4

WSH Labs (1992) Ltd. as per:

Sum of Cations	8.66	TDS / EC Ratio	0.59
Sum of Anions	8.68	Sodium Adsorption Ratio	6.27
Ion Balance	1.00	Saturation Index	0.59



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Lab Number: 92051

(1) The results above are related only to the items analyzed.

(2) Results apply to the sample(s) as received.

(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, September 2020.

https://www.canada.ca/content/dam/hc-sc/migration/hc-sc/ewh-semt/alt_formats/pdf/pubs/water-eau/sum_guide-res_recom/summary-table-EN-2020-02-11.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 23rd Edition (2017)

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.

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