

Analytical Report

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|--|--|---|
| Bill To: Aquapro H2O Solutions 100 Mile House, BC, Canada Attn: Sampled By: Company: | Project ID: Project Name: Outdoor Hydrant Project Location: LSD: Lone Butte, BC P.O.: Proj. Acct. code: | Lot ID: 1766402 Control Number: Date Received: Oct 9, 2024 Date Reported: Oct 16, 2024 Report Number: 3056976 Report Type: Final Report |
|--|--|---|

| | |
|--------------------|---|
| Reference Number | 1766402-1 |
| Sample Date | October 08, 2024 |
| Sample Time | 12:18 |
| Sample Location | |
| Sample Description | Outdoor Hydrant / 5.3 °C / Lone Butte, BC |
| Sample Matrix | Drinking Water |

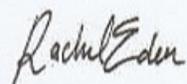
| Analyte | Units | Result | Nominal Detection Limit | Guideline Limit | Guideline Comments | |
|--|-----------------------|--------------|-------------------------|-----------------|--------------------|--------------|
| Metals Extractable | | | | | | |
| Aluminum | Extractable mg/L | 0.001 | 0.001 | 0.1 OG; 2.9 MAC | Below OG | |
| Antimony | Extractable mg/L | 0.00007 | 0.00002 | 0.006 | Below MAC | |
| Arsenic | Extractable mg/L | 0.0010 | 0.0001 | 0.010 | Below MAC | |
| Barium | Extractable mg/L | 0.0013 | 0.0001 | 2.0 | Below MAC | |
| Boron | Extractable mg/L | 0.007 | 0.002 | 5 | Below MAC | |
| Cadmium | Extractable mg/L | <0.00001 | 0.00001 | 0.007 | Below MAC | |
| Chromium | Extractable mg/L | <0.00005 | 0.00005 | 0.05 | Below MAC | |
| Copper | Extractable mg/L | <0.0005 | 0.0005 | 1 AO; 2 MAC | Below AO | |
| Lead | Extractable mg/L | <0.00001 | 0.00001 | 0.005 | Below MAC | |
| Selenium | Extractable mg/L | 0.0003 | 0.0002 | 0.05 | Below MAC | |
| Strontium | Extractable mg/L | 0.058 | 0.0001 | 7.0 | Below MAC | |
| Uranium | Extractable mg/L | 0.0018 | 0.00001 | 0.02 | Below MAC | |
| Vanadium | Extractable mg/L | 0.0011 | 0.00005 | | | |
| Zinc | Extractable mg/L | 0.021 | 0.0005 | 5.0 | Below AO | |
| Microbiological Analysis | | | | | | |
| Total Coliforms | Enzyme Substrate Test | MPN/100 mL | <1.0 | 1.0 | 0 per 100 mL | Below MAC |
| Escherichia coli | Enzyme Substrate Test | MPN/100 mL | <1.0 | 1.0 | 0 per 100 mL | Below MAC |
| Physical and Aggregate Properties | | | | | | |
| Colour | True | Colour units | <5 | 5 | | |
| Turbidity | | NTU | 30.5 | 0.1 | 0.1/0.3/1.0 OG | |
| Routine Water | | | | | | |
| pH | | | 7.87 | 0.01 | 7.0-10.5 | Within Range |
| pH - Holding Time | | | Exceeded | | | |
| Electrical Conductivity | at 25 °C | µS/cm | 523 | 1 | | |
| Calcium | Extractable | mg/L | 39 | 0.01 | | |
| Iron | Extractable | mg/L | 2.8 | 0.004 | 0.3 | Above AO |
| Magnesium | Extractable | mg/L | 37 | 0.02 | | |
| Manganese | Extractable | mg/L | 0.15 | 0.001 | 0.02 AO; 0.12 MAC | Above MAC |
| Potassium | Extractable | mg/L | 2.8 | 0.04 | | |
| Silicon | Extractable | mg/L | 6.6 | 0.005 | | |
| Sodium | Extractable | mg/L | 15 | 0.1 | 200 | Below AO |
| T-Alkalinity | as CaCO3 | mg/L | 272 | 5 | | |
| Chloride | Dissolved | mg/L | 10.9 | 0.05 | 250 | Below AO |
| Fluoride | Dissolved | mg/L | 0.1 | 0.01 | 1.5 | Below MAC |
| Nitrate - N | Dissolved | mg/L | <0.1 | 0.01 | 10 | Below MAC |
| Nitrite - N | Dissolved | mg/L | <0.1 | 0.01 | 1 | Below MAC |

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| Analyte | Units | Result | Nominal Detection Limit | Guideline Limit | Guideline Comments | |
|----------------------------------|------------------------|--------|-------------------------|-----------------|--------------------|----------|
| Routine Water - Continued | | | | | | |
| Sulfate (SO4) | Dissolved | mg/L | 4 | 0.1 | 500 | Below AO |
| Hardness | as CaCO3 (extractable) | mg/L | 250 | 1 | | |
| Total Dissolved Solids | Extractable | mg/L | 291 | 1 | 500 | Below AO |

Approved by: 
 Rachel Eden, B. Sc.
 Operations Manager

Methodology and Notes

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|--------------------------------|-------------------------------|-----------------------------|
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Method of Analysis

| Method Name | Reference | Method | Date Analysis Started | Location |
|---|-----------|---|-----------------------|-------------------|
| Alk, pH, EC, Turb in water (BC) | APHA | * Alkalinity - Titration Method, 2320 B | Oct 09, 2024 | Element Vancouver |
| Alk, pH, EC, Turb in water (BC) | APHA | * Conductivity, 2510 B | Oct 09, 2024 | Element Vancouver |
| Alk, pH, EC, Turb in water (BC) | APHA | * pH - Electrometric Method, 4500-H+ B | Oct 09, 2024 | Element Vancouver |
| Anions by IEC in water (VAN) | APHA | * Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B | Oct 09, 2024 | Element Vancouver |
| Metals SemiTrace (Extractable) in water (VAN) | US EPA | * Metals & Trace Elements by ICP-AES, 6010C | Oct 09, 2024 | Element Vancouver |
| Total and E-Coli - Colilert - DW (VAN) | APHA | Enzyme Substrate Test, APHA 9223 B | Oct 09, 2024 | Element Vancouver |
| Trace Metals (extractable) in Water (VAN) | US EPA | * Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8 | Oct 11, 2024 | Element Vancouver |
| True Color in water (VAN) | APHA | * Spectrophotometric - Single Wavelength Method, 2120 C | Oct 09, 2024 | Element Vancouver |
| Turbidity - Water (VAN) | APHA | * Turbidity - Nephelometric Method, 2130 B | Oct 09, 2024 | Element Vancouver |

* Reference Method Modified

References

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| APHA | Standard Methods for the Examination of Water and Wastewater |
| US EPA | US Environmental Protection Agency Test Methods |

Guidelines

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| Guideline Description | Health Canada GCDWQ |
| Guideline Source | Guidelines for Canadian Drinking Water Quality, Health Canada, August 2024 |
| Guideline Comments | MAC = Maximum Acceptable Concentration AO = Aesthetic Objective OG = Operational Guideline for Water Treatment Plants (does not apply to private groundwater wells). Refer to Health Canada for complete guidelines at www.hc-sc.gc.ca |

Comments:

- Sample 1766402-1; 9550937: Reduction of analytical volume was necessary for anion analysis due to matrix effects in sample 1766402-1. Detection limits are adjusted accordingly.
- Sample 1766402-1; 9550937: The Manganese result in sample 1766402-1 exceeded the maximum acceptable concentration (MAC) as specified by the June 2024 Guidelines for Canadian Drinking Water Quality.

The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

Please direct any inquiries regarding this report to our Client Services group.
Results relate only to samples as submitted.