

CERTIFICATE OF ANALYSIS

| | | | |
|---------------------|---|---------------------------------|--|
| REPORTED TO | Aqua Diversities Inc. 621 Upper Park View Road Nelson, BC V1L 6H6 | WORK ORDER | 24H1791 |
| ATTENTION | Nathan Ward | RECEIVED / TEMP REPORTED | 2024-08-02 09:01 / 3.4°C 2024-08-20 08:56 |
| PO NUMBER | Issac RAW | COC NUMBER | No Number |
| PROJECT | NSWU - ISSAC | | |
| PROJECT INFO | | | |

Introduction:

CARO Analytical Services is a testing laboratory full of smart, engaged scientists driven to make the world a safer and healthier place. Through our clients' projects we become an essential element for a better world. We employ methods conducted in accordance with recognized professional standards using accepted testing methodologies and quality control efforts. CARO is accredited by the Canadian Association for Laboratories Accreditation (CALA) to ISO/IEC 17025:2017 for specific tests listed in the scope of accreditation approved by CALA.

Big Picture Sidekicks



You know that the sample you collected after snowshoeing to site, digging 5 meters, and racing to get it on a plane so you can submit it to the lab for time sensitive results needed to make important and expensive decisions (whew) is VERY important. We know that too.

We've Got Chemistry



It's simple. We figure the more you enjoy working with our fun and engaged team members; the more likely you are to give us continued opportunities to support you.

Ahead of the Curve



Through research, regulation knowledge, and instrumentation, we are your analytical centre for the technical knowledge you need, BEFORE you need it, so you can stay up to date and in the know.

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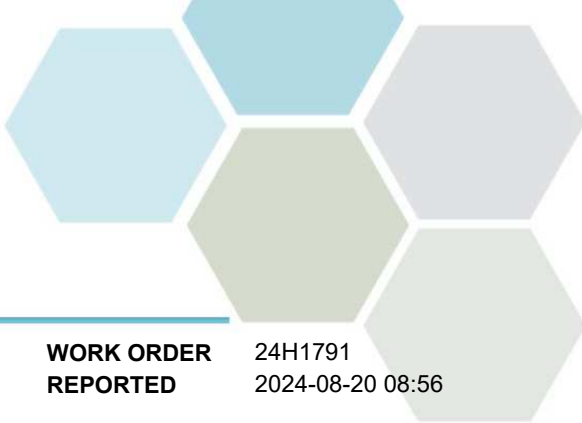
If you have any questions or concerns, please contact me at smathew@caro.ca

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TEST RESULTS

REPORTED TO PROJECT Aqua Diversities Inc.
NSWU - ISSAC

WORK ORDER REPORTED 24H1791
2024-08-20 08:56

| Analyte | Result | Guideline | RL Units | Analyzed | Qualifier |
|---------|--------|-----------|----------|----------|-----------|
|---------|--------|-----------|----------|----------|-----------|

EDWTK - ISSAC (24H1791-01) | Matrix: Water | Sampled: 2024-08-01 13:00

PRES

Anions

| | | | | | |
|----------------|---------|-----------|------------|------------|-----|
| Chloride | 0.12 | AO ≤ 250 | 0.10 mg/L | 2024-08-15 | |
| Fluoride | 0.68 | MAC = 1.5 | 0.10 mg/L | 2024-08-15 | |
| Nitrate (as N) | < 0.010 | MAC = 10 | 0.010 mg/L | 2024-08-15 | HT1 |
| Nitrite (as N) | < 0.010 | MAC = 1 | 0.010 mg/L | 2024-08-15 | HT1 |
| Sulfate | 1.2 | AO ≤ 500 | 1.0 mg/L | 2024-08-15 | |

Calculated Parameters

| | | | | | |
|----------------------------|------|---------------|------------|-----|--|
| Hardness, Total (as CaCO3) | 26.0 | None Required | 0.500 mg/L | N/A | |
| Solids, Total Dissolved | 35.2 | AO ≤ 500 | 1.00 mg/L | N/A | |

General Parameters

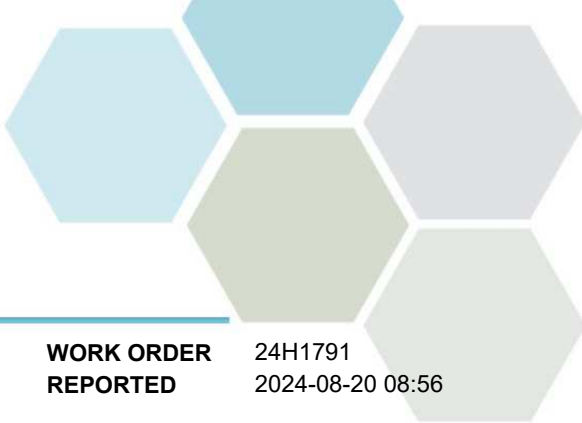
| | | | | | |
|--|----------|-----------|---------------|------------|-----|
| Alkalinity, Total (as CaCO3) | 34.1 | N/A | 1.0 mg/L | 2024-08-17 | HT1 |
| Alkalinity, Phenolphthalein (as CaCO3) | < 1.0 | N/A | 1.0 mg/L | 2024-08-17 | HT1 |
| Alkalinity, Bicarbonate (as CaCO3) | 34.1 | N/A | 1.0 mg/L | 2024-08-17 | HT1 |
| Alkalinity, Carbonate (as CaCO3) | < 1.0 | N/A | 1.0 mg/L | 2024-08-17 | HT1 |
| Alkalinity, Hydroxide (as CaCO3) | < 1.0 | N/A | 1.0 mg/L | 2024-08-17 | HT1 |
| Conductivity (EC) | 66.9 | N/A | 2.0 µS/cm | 2024-08-17 | |
| Cyanide, Total | < 0.0020 | MAC = 0.2 | 0.0020 mg/L | 2024-08-15 | |
| pH | 6.57 | 7.0-10.5 | 0.10 pH units | 2024-08-17 | HT2 |
| Turbidity | 0.99 | OG < 1 | 0.10 NTU | 2024-08-16 | HT1 |

Microbiological Parameters

| | | | | | |
|---------------------|------|---------|----------------|------------|-----|
| Coliforms, Total | ≥ 4 | MAC = 0 | 1 CFU/100 mL | 2024-08-14 | HT3 |
| Background Colonies | >200 | N/A | 200 CFU/100 mL | 2024-08-14 | HT3 |
| E. coli | < 1 | MAC = 0 | 1 CFU/100 mL | 2024-08-14 | HT3 |

Total Metals

| | | | | | |
|------------------|------------|---------------|---------------|------------|--|
| Aluminum, total | 0.0552 | OG < 0.1 | 0.0050 mg/L | 2024-08-15 | |
| Antimony, total | < 0.00020 | MAC = 0.006 | 0.00020 mg/L | 2024-08-15 | |
| Arsenic, total | < 0.00050 | MAC = 0.01 | 0.00050 mg/L | 2024-08-15 | |
| Barium, total | 0.0370 | MAC = 2 | 0.0050 mg/L | 2024-08-15 | |
| Boron, total | < 0.0500 | MAC = 5 | 0.0500 mg/L | 2024-08-15 | |
| Cadmium, total | < 0.000010 | MAC = 0.007 | 0.000010 mg/L | 2024-08-15 | |
| Calcium, total | 9.30 | None Required | 0.20 mg/L | 2024-08-15 | |
| Chromium, total | 0.00174 | MAC = 0.05 | 0.00050 mg/L | 2024-08-15 | |
| Copper, total | < 0.00040 | MAC = 2 | 0.00040 mg/L | 2024-08-15 | |
| Iron, total | 0.040 | AO ≤ 0.3 | 0.010 mg/L | 2024-08-15 | |
| Lead, total | < 0.00020 | MAC = 0.005 | 0.00020 mg/L | 2024-08-15 | |
| Magnesium, total | 0.659 | None Required | 0.010 mg/L | 2024-08-15 | |
| Manganese, total | 0.00131 | MAC = 0.12 | 0.00020 mg/L | 2024-08-15 | |
| Potassium, total | 0.62 | N/A | 0.10 mg/L | 2024-08-15 | |
| Selenium, total | < 0.00050 | MAC = 0.05 | 0.00050 mg/L | 2024-08-15 | |
| Sodium, total | 2.43 | AO ≤ 200 | 0.10 mg/L | 2024-08-15 | |
| Strontium, total | 0.148 | MAC = 7 | 0.0010 mg/L | 2024-08-15 | |



TEST RESULTS

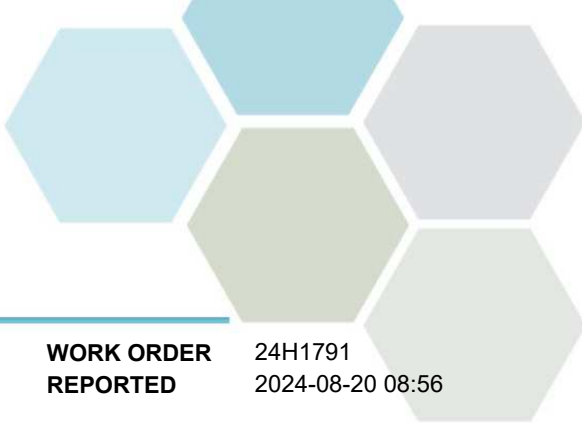
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| Analyte | Result | Guideline | RL | Units | Analyzed | Qualifier |
|--|----------------|------------|----------|-------|------------|-------------|
| EDWTK - ISSAC (24H1791-01) Matrix: Water Sampled: 2024-08-01 13:00, Continued | | | | | | PRES |
| <i>Total Metals, Continued</i> | | | | | | |
| Uranium, total | 0.00647 | MAC = 0.02 | 0.000020 | mg/L | 2024-08-15 | |
| Zinc, total | < 0.0040 | AO ≤ 5 | 0.0040 | mg/L | 2024-08-15 | |

Sample Qualifiers:

- HT1 The sample was prepared and/or analyzed past the recommended holding time.
- HT2 The 15 minute recommended holding time (from sampling to analysis) has been exceeded - field analysis is recommended.
- HT3 Microbiological analysis was initiated beyond the maximum holding time of 30 hours. Results may not be valid.
- PRES Sample has been preserved for CN in the laboratory and the holding time has been extended.



APPENDIX 1: SUPPORTING INFORMATION

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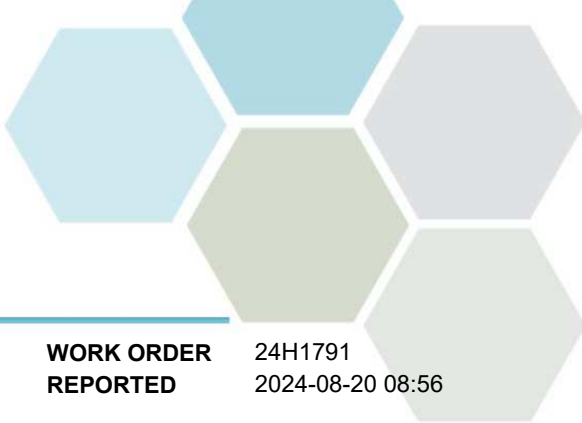
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| Analysis Description | Method Ref. | Technique | Accredited | Location |
|----------------------------------|-----------------------|--|------------|----------|
| Alkalinity in Water | SM 2320 B* (2021) | Titration with H2SO4 | ✓ | Kelowna |
| Anions in Water | SM 4110 B (2020) | Ion Chromatography | ✓ | Kelowna |
| Coliforms, Total in Water | SM 9222* (2015) | Membrane Filtration / Chromocult Agar | ✓ | Kelowna |
| Conductivity in Water | SM 2510 B (2021) | Conductivity Meter | ✓ | Kelowna |
| Cyanide, SAD in Water | ASTM D7511-12 | Flow Injection with In-Line UV Digestion and Amperometry | ✓ | Kelowna |
| E. coli in Water | SM 9222* (2015) | Membrane Filtration / Chromocult Agar | ✓ | Kelowna |
| Hardness in Water | SM 2340 B* (2021) | Calculation: 2.497 [total Ca] + 4.118 [total Mg] (Est) | ✓ | N/A |
| pH in Water | SM 4500-H+ B (2021) | Electrometry | ✓ | Kelowna |
| Solids, Total Dissolved in Water | SM 1030 E (2021) | SM 1030 E | | N/A |
| Total Metals in Water | EPA 200.2 / EPA 6020B | HNO3+HCl Hot Block Digestion / Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS) | ✓ | Richmond |
| Turbidity in Water | SM 2130 B (2020) | Nephelometry | ✓ | Kelowna |

Note: An asterisk in the Method Reference indicates that the CARO method has been modified from the reference method

Glossary of Terms:

| | |
|------------|---|
| RL | Reporting Limit (default) |
| < | Less than the specified Reporting Limit (RL) - the actual RL may be higher than the default RL due to various factors |
| >= | Greater than or equal to the specified Result |
| >2 | Greater than the specified Result |
| AO | Aesthetic Objective |
| CFU/100 mL | Colony Forming Units per 100 millilitres |
| MAC | Maximum Acceptable Concentration (health based) |
| mg/L | Milligrams per litre |
| NTU | Nephelometric Turbidity Units |
| OG | Operational Guideline (treated water) |
| pH units | pH < 7 = acidic, pH > 7 = basic |
| µS/cm | Microsiemens per centimetre |
| ASTM | ASTM International Test Methods |
| EPA | United States Environmental Protection Agency Test Methods |
| SM | Standard Methods for the Examination of Water and Wastewater, American Public Health Association |



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General Comments:

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