### Regional District of Nanaimo - Utilities Department

### Madrona Water Analysis - Monthly Report

<table>
<thead>
<tr>
<th>Date</th>
<th>Sample Location (Address)</th>
<th>Fecal Coli *</th>
<th>Total Coli *</th>
<th>Total Coli RDN</th>
<th>E Coli RDN</th>
<th>Temp °C</th>
<th>pH</th>
<th>Cl₂ ppm</th>
<th>TDS ppm</th>
<th>Sal %</th>
<th>Cond uS/cm</th>
<th>Fe ppm</th>
<th>Mn ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-Jan</td>
<td>1566 Arbutus</td>
<td>0</td>
<td>0</td>
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<td>0.04</td>
<td>161</td>
<td>0.2</td>
<td>340</td>
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<tr>
<td>18-Jan</td>
<td>1825 NW Bay Rd</td>
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<td>8</td>
<td>7.1</td>
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<td>163</td>
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<td>0.02</td>
<td>163</td>
<td>0.2</td>
<td>345</td>
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</tbody>
</table>

**Average**

- Fecal Coli: 0
- Total Coli: 0
- Temp: 8.3
- pH: 7.2
- Cl₂: 0.03
- TDS: 162.3
- Sal: 0.2
- Cond: 343.7
- Fe: 0.01
- Mn: 0.011

**Maximum**

- Fecal Coli: 0
- Total Coli: 0
- Temp: 9
- pH: 7.5
- Cl₂: 0.04
- TDS: 163
- Sal: 0.2
- Cond: 346
- Fe: 0.01
- Mn: 0.011

**Minimum**

- Fecal Coli: 0
- Total Coli: 0
- Temp: 8
- pH: 6.9
- Cl₂: 0.02
- TDS: 161
- Sal: 0.2
- Cond: 340
- Fe: 0.01
- Mn: 0.011

Red font indicates non-compliance with Canadian Drinking Water Guidelines / BC Approved Water Quality Guidelines.

Coliforms are measured in colony forming units (CFU) per 100 millilitres of water.

* Yellow Column Coliform tests are done by Health Department.

Green tests are completed by RDN.
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<th>TDS ppm</th>
<th>Sal %</th>
<th>Cond uS/cm</th>
<th>Fe ppm</th>
<th>Mn ppm</th>
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<td>0.02</td>
<td>162</td>
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<td>346</td>
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<td>0.032</td>
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<td>1825 NW Bay Rd</td>
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<td>1358 Madrona</td>
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<td>0.032</td>
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</table>

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Coliforms are measured in colony forming units (CFU) per 100 millilitres of water

* Yellow Column Coliform tests are done by Health Department

Green tests are completed by RDN
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<thead>
<tr>
<th>Date</th>
<th>Sample Location (Address)</th>
<th>Fecal Coli * Health Dep</th>
<th>Total Coli * Health Dep</th>
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<th>pH</th>
<th>Cl₂ ppm</th>
<th>TDS ppm</th>
<th>Sal %</th>
<th>Cond uS/cm</th>
<th>Fe ppm</th>
<th>Mn ppm</th>
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<td><strong>338.0</strong></td>
<td><strong>0.01</strong></td>
<td><strong>0.009</strong></td>
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</tbody>
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<th>TDS ppm</th>
<th>Sal %</th>
<th>Cond uS/cm</th>
<th>Fe ppm</th>
<th>Mn ppm</th>
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</thead>
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<td>5-Apr</td>
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<td>346</td>
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</tbody>
</table>

|          | Average                   | 0            | 0            | 0              | 0          | 9.8     | 7.2 | 0.04    | 162.8   | 0.2   | 343.8     | 0.05   | 0.031  |
|          | Maximum                   | 0            | 0            | 0              | 0          | 11      | 7.2 | 0.07    | 165     | 0.2   | 347       | 0.05   | 0.031  |
|          | Minimum                   | 0            | 0            | 0              | 0          | 9       | 7.1 | 0.01    | 160     | 0.2   | 339       | 0.05   | 0.031  |

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**Comments:**

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<th>Sample Location (Address)</th>
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<th>Total Coli RDN</th>
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<th>Temp °C</th>
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<th>Cl₂ ppm</th>
<th>TDS ppm</th>
<th>Sal %</th>
<th>Cond uS/cm</th>
<th>Fe ppm</th>
<th>Mn ppm</th>
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</table>

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<th>Date</th>
<th>Sample Location (Address)</th>
<th>Fecal Coli * Health Dep</th>
<th>Total Coli * Health Dep</th>
<th>Total Coli RDN</th>
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<th>Temp °C</th>
<th>pH</th>
<th>Cl₂ ppm</th>
<th>TDS ppm</th>
<th>Sal %</th>
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<th>Fe ppm</th>
<th>Mn ppm</th>
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**Average**
- Fecal Coli: 0
- Total Coli: 0.25
- Temp °C: 13.8
- pH: 7.0
- Cl₂ ppm: 0.06
- TDS ppm: 95.0
- Sal %: 0.1
- Cond uS/cm: 200.3
- Fe ppm: 0.21
- Mn ppm: 0.124

**Maximum**
- Fecal Coli: 1
- Total Coli: 1
- Temp °C: 14
- pH: 7.2
- Cl₂ ppm: 0.09
- TDS ppm: 163
- Sal %: 0.2
- Cond uS/cm: 342
- Fe ppm: 0.21
- Mn ppm: 0.124

**Minimum**
- Fecal Coli: 0
- Total Coli: 0
- Temp °C: 13
- pH: 6.7
- Cl₂ ppm: 0.03
- TDS ppm: 40
- Sal %: 0
- Cond uS/cm: 83.9
- Fe ppm: 0.21
- Mn ppm: 0.124

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**Regional District of Nanaimo - Utilities Department**

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<thead>
<tr>
<th>Date</th>
<th>Sample Location (Address)</th>
<th>Fecal Coli * Health Dep</th>
<th>Total Coli * Health Dep</th>
<th>Total Coli RDN</th>
<th>E Coli RDN</th>
<th>Temp °C</th>
<th>pH</th>
<th>Cl₂ ppm</th>
<th>TDS ppm</th>
<th>Sal %</th>
<th>Cond uS/cm</th>
<th>Fe ppm</th>
<th>Mn ppm</th>
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**Maximum**

|                  | 0 | 0 | 1    | 0 | 19   | 7   | 0.09 | 75   | 0.1 | 157.4 | 0.12 | 0.014 |

**Minimum**

|                  | 0 | 0 | 0    | 0 | 18   | 6.8 | 0.03 | 47   | 0   | 98.3  | 0.12 | 0.014 |

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<tr>
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<th>Sample Location (Address)</th>
<th>Fecal Coli *</th>
<th>Total Coli *</th>
<th>Total Coli RDN</th>
<th>E Coli RDN</th>
<th>Temp °C</th>
<th>pH</th>
<th>Cl₂ ppm</th>
<th>TDS ppm</th>
<th>Sal %</th>
<th>Cond uS/cm</th>
<th>Fe ppm</th>
<th>Mn ppm</th>
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**Average**

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<th>0.001</th>
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</table>

**Maximum**

|        | 0       | 0       | 0       | 17      | 6.9     | 0.09   | 56   | 0.1     | 118     | 0.12  | 0.001 |

**Minimum**

|        | 0       | 0       | 0       | 16      | 6.8     | 0.04   | 47   | 0       | 99      | 0.12  | 0.001 |

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<th>Temp °C</th>
<th>pH</th>
<th>Cl₂ ppm</th>
<th>TDS ppm</th>
<th>Sal %</th>
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### Average
- **Fecal Coli**: 0.25
- **Total Coli**: 0.1
- **Temp °C**: 13.3
- **pH**: 7.1
- **Cl₂ ppm**: 0.03
- **TDS ppm**: 144.3
- **Sal %**: 0.2
- **Cond uS/cm**: 303.5
- **Fe ppm**: 0.1
- **Mn ppm**: 0.022

### Maximum
- **Fecal Coli**: 1
- **Total Coli**: 15
- **Temp °C**: 7.5
- **pH**: 0.4
- **Cl₂ ppm**: 160
- **TDS ppm**: 335
- **Sal %**: 0.2
- **Cond uS/cm**: 335
- **Fe ppm**: 0.1
- **Mn ppm**: 0.022

### Minimum
- **Fecal Coli**: 0
- **Total Coli**: 12
- **Temp °C**: 6.8
- **pH**: 0.03
- **Cl₂ ppm**: 114
- **TDS ppm**: 240
- **Sal %**: 0.1
- **Cond uS/cm**: 1
- **Fe ppm**: 0.1
- **Mn ppm**: 0.022

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<th>Total Coli RDN</th>
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<th>pH</th>
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**Average**

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<th>Fe ppm</th>
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**Maximum**

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**Minimum**

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<td>0.1</td>
<td>317</td>
<td>0.02</td>
<td>0.015</td>
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</tbody>
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|             | Average                  | 0                       | 0                       | 0              | 0          | 9.7     | 7.0| 0.09    | 167.7   | 0.2   | 354.0     | 0.12   | 0.176  |
|             | Maximum                  | 0                       | 0                       | 0              | 0          | 10      | 7.2| 0.14    | 171     | 0.2   | 362       | 0.12   | 0.176  |
|             | Minimum                  | 0                       | 0                       | 0              | 0          | 9       | 6.9| 0.06    | 162     | 0.2   | 342       | 0.12   | 0.176  |

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