



Regional District of Nanaimo - Water Services Department

Decourcey Water Analysis - 2024 Monthly Report

| Date | Sample Location (Address) | BC Centre for Disease Control | | RDN In-House Laboratory and Spectrophotometer | | | | | | | | |
|-------------------------------|---------------------------|-------------------------------|------------------|---|------------------|------------|----------|-------------------------------|-------------------------------|--------------|----------------------|-----------------|
| | | E. coli * | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Turbidity (NTU) |
| 2-Jan-24 | 2458 Pylades | | | 0 | 0 | 9.6 | 7.57 | 0.01 | 0.39 | 0.35 | 712.0 | 0.39 |
| 8-Jan-24 | 2458 Pylades | | | 0 | 0 | 8 | 7.47 | 0.01 | 341.00 | 0.34 | 701.0 | 0.34 |
| 22-Jan-24 | 2458 Pylades | 0 | 0 | 0 | 0 | 8 | 6.82 | 0.00 | 364.00 | 0.36 | 649.0 | 0.32 |
| 29-Jan-24 | 2458 Pylades | | | 0 | 0 | 7.5 | 7.65 | 0.00 | 339.00 | 0.34 | 688.0 | 0.32 |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | <1 |

Legend:

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

Green font indicates a value flagged for operational consideration

Orange font indicates non-compliance with the Aesthetic Objective (AO) in the Canadian Drinking Water Guidelines (CDWG)

Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG

Comments:

Iron and Manganese are no longer being tested in-house.

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Notes below about pH (2015) from https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html#_ftn1

| Type | Parameter (published, reaffirmed) | MAC (mg/L) | Other value (mg/L) | Common sources of parameter in water | Health considerations | Comments |
|-------------------|-----------------------------------|------------|--------------------|--------------------------------------|-----------------------|---|
| Treatment-related | pH (2015) | None | 7.0-10.5 | Not applicable | Not applicable | The control of pH is important to maximize treatment effectiveness, control corrosion and reduce leaching from distribution system and plumbing components. |



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| | | E. coli * | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Turbidity (NTU) |
| 5-Feb-24 | 2458 Pylades | 0 | 0 | 0 | 0 | 8 | 7.60 | 0.02 | 367.0 | 0.37 | 750.0 | 0.27 |
| 12-Feb-24 | 2458 Pylades | | | 0 | 0 | 7 | 7.50 | 0.03 | 331.0 | 0.33 | 680.0 | 0.31 |
| 21-Feb-24 | 2458 Pylades | | | 0 | 0 | 8 | 7.66 | 0.04 | 332.0 | 0.33 | 681.0 | 0.29 |
| 27-Feb-24 | 2458 Pylades | | | 0 | 0 | 7 | 7.59 | 0.03 | 328.0 | 0.33 | 674.0 | 0.39 |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | <1 |

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|-------------------------------|---------------------------|-------------------------------|------------------|---|------------------|------------|----------|-------------------------------|-------------------------------|--------------|----------------------|-----------------|
| | | E. coli * | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Turbidity (NTU) |
| 6-Mar-24 | 2458 Pylades | | | 0 | 0 | 7 | 7.44 | 0.03 | 301.0 | 0.30 | 625.0 | 0.29 |
| 11-Mar-24 | 2458 Pylades | 0 | 0 | 0 | 0 | 8 | 7.80 | 0.03 | 315.0 | 0.31 | 647.0 | 0.28 |
| 18-Mar-24 | 2458 Pylades | | | 0 | 0 | 8 | 7.60 | 0.03 | 316.0 | 0.32 | 647.0 | 0.32 |
| 27-Mar-24 | 2458 Pylades | | | 0 | 0 | 9 | 7.63 | 0.00 | 303.0 | 0.30 | 620.0 | 0.28 |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | <1 |

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|-------------------------------|---------------------------|-------------------------------|------------------|---|------------------|------------|----------|-------------------------------|-------------------------------|--------------|----------------------|-----------------|
| Date | Sample Location (Address) | E. coli * | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Turbidity (NTU) |
| 8-Apr-24 | 2458 Pylades | 0 | 0 | 0 | 0 | 9 | 7.56 | 0.03 | 307.0 | 0.31 | 630.0 | 0.29 |
| 15-Apr-24 | 2458 Pylades | | | 0 | 0 | 10 | 7.22 | 0.00 | 307.0 | 0.31 | 632.0 | 0.42 |
| 22-Apr-24 | 2458 Pylades | | | 0 | 0 | 11 | 7.44 | 0.01 | 307.0 | 0.31 | 632.0 | 0.40 |
| | | | | | | | | | | | | |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | <1 |

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|-------------------------------|---------------------------|-------------------------------|------------------|---|------------------|------------|----------|-------------------------------|-------------------------------|--------------|----------------------|-----------------|
| | | E. coli * | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Turbidity (NTU) |
| 1-May-24 | 2458 Pylades | 0 | 0 | 0 | 0 | 12 | 7.09 | 0.02 | 304.0 | 0.30 | 628.0 | 0.31 |
| 7-May-24 | 2458 Pylades | | | 0 | 0 | 12 | 7.08 | 0.01 | 307.0 | 0.31 | 632.0 | 0.21 |
| 13-May-24 | 2458 Pylades | | | 0 | 0 | 13 | 7.28 | 0.03 | 311.0 | 0.31 | 640.0 | 0.28 |
| 22-May-24 | 2458 Pylades | | | 0 | 0 | 15 | 7.45 | 0.01 | 318.0 | 0.32 | 551.0 | 0.40 |
| 27-May-24 | 2458 Pylades | | | 0 | 0 | 14 | 7.20 | 0.03 | 313.0 | 0.31 | 643.0 | 0.29 |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | <1 |

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|-------------------------------|---------------------------|-------------------------------|------------------|---|------------------|------------|----------|-------------------------------|-------------------------------|--------------|----------------------|-----------------|
| Date | Sample Location (Address) | E. coli * | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Turbidity (NTU) |
| 3-Jun-24 | 2458 Pylades | | | 0 | 0 | 14 | 7.34 | 0.04 | 307.0 | 0.31 | 640.0 | 0.27 |
| 10-Jun-24 | 2458 Pylades | 0 | 0 | 0 | 0 | 15 | 7.20 | 0.03 | 324.0 | 0.32 | 567.0 | 0.26 |
| 17-Jun-24 | 2458 Pylades | | | 0 | 0 | 15 | 7.18 | 0.02 | 332.0 | 0.33 | 681.0 | 0.31 |
| 24-Jun-24 | 2458 Pylades | | | 0 | 0 | 17 | 7.23 | 0.03 | 346.0 | 0.35 | 709.0 | 0.23 |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | <1 |

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| | | E. coli * | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Turbidity (NTU) |
| 3-Jul-24 | 2458 Pylades | 0 | 0 | 0 | 0 | 15 | 7.26 | 0.02 | 357.0 | 0.36 | 736.0 | 0.37 |
| 8-Jul-24 | 2458 Pylades | | | 0 | 0 | 18 | 7.41 | 0.03 | 345.0 | 0.34 | 704.0 | 0.31 |
| 15-Jul-24 | 2458 Pylades | | | 0 | 0 | 18 | 7.58 | 0.00 | 374.0 | 0.37 | 765.0 | 0.46 |
| 22-Jul-24 | 2458 Pylades | | | 0 | 0 | 19 | 7.55 | 0.03 | 386.0 | 0.39 | 788.0 | 0.35 |
| 29-Jul-24 | 2458 Pylades | | | 0 | 0 | 19 | 7.59 | 0.02 | 385.0 | 0.38 | 776.0 | 0.25 |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | <1 |

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| Date | Sample Location (Address) | E. coli * | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Turbidity (NTU) |
| 6-Aug-24 | 2458 Pylades | 0 | 0 | 0 | 0 | 18 | 7.44 | 0.08 | 398.0 | 0.39 | 806.0 | 0.26 |
| 12-Aug-24 | 2458 Pylades | | | 0 | 0 | 19 | 7.42 | 0.00 | 386.0 | 0.39 | 792.0 | 0.23 |
| 19-Aug-24 | 2458 Pylades | | | 0 | 0 | 18 | 7.90 | 0.07 | 364.0 | 0.37 | 751.0 | 0.29 |
| 26-Aug-24 | 2458 Pylades | | | 0 | 0 | 17 | 8.04 | 0.03 | 386.0 | 0.36 | 786.0 | 0.25 |
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| Date | Sample Location (Address) | E. coli * | Total Coliform * | E.coli * | Total Coliform * | Temp. (°C) | pH | Free Chlorine Residual (mg/L) | Total Dissolved Solids (mg/L) | Salinity (%) | Conductivity (µS/cm) | Turbidity (NTU) |
| 3-Sep-24 | 2458 Pylades | 0 | 0 | 0 | 0 | 18 | 7.46 | 0.03 | 385.0 | 0.39 | 787.0 | 0.23 |
| 9-Sep-24 | 2458 Pylades | | | 0 | 0 | 18 | 7.80 | 0.06 | 381.0 | 0.39 | 786.0 | 0.21 |
| 17-Sep-24 | 2458 Pylades | | | 0 | 0 | 18 | 7.34 | 0.03 | 385.0 | 0.39 | 788.0 | 0.24 |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | <1 |

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