



Regional District of Nanaimo - Water Services Department

San Pareil 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) |
| 3-Jan-24 | 793 San Malo | 0 | 0 | 0 | 0 | 9 | 6.77 | 0.62 | 35.7 | 0.03 | 75.8 | 0.14 |
| 10-Jan-24 | 995 Sabine | 0 | 0 | 0 | 0 | 9 | 6.50 | 0.74 | 34.9 | 0.03 | 74.1 | 0.29 |
| 31-Jan-24 | 962 Ballenas | 0 | 0 | 0 | 0 | 9 | 6.70 | 0.69 | 34.2 | 0.03 | 75.0 | 0.28 |
| 31-Jan-24 | 1090 Plummer | 0 | 0 | 0 | 0 | 9 | 6.80 | 0.66 | 35.6 | 0.03 | 74.9 | 0.33 |
| 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

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

Comments:

A full potability scan, including metals and minerals, is completed once per year at an external lab.

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) |
| 6-Feb-24 | 793 San Malo | 0 | 0 | 0 | 0 | 8 | 6.83 | 0.45 | 36.3 | 0.04 | 77.0 | 0.24 |
| 14-Feb-24 | 962 Ballenas | 0 | 0 | 0 | 0 | 9 | 6.96 | 0.19 | 42.5 | 0.04 | 90.0 | 0.24 |
| 21-Feb-24 | 995 Sabine | 0 | 0 | 0 | 0 | 8 | 6.60 | 0.55 | 36.6 | 0.04 | 77.7 | 0.27 |
| 28-Feb-24 | 995 Sabine | 0 | 0 | 0 | 0 | 8 | 6.97 | 0.72 | 36.1 | 0.04 | 76.9 | 0.16 |
| 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) |
| 4-Mar-24 | 793 San Malo | 0 | 0 | 0 | 0 | 8 | 6.71 | 0.46 | 35.1 | 0.03 | 74.7 | 0.14 |
| 19-Mar-24 | 1090 Plummer | 0 | 0 | 0 | 0 | 9 | 7.20 | 0.47 | 32.4 | 0.03 | 68.8 | 0.29 |
| 19-Mar-24 | 793 San Malo | 0 | 0 | 0 | 0 | 9 | | 0.45 | | | | 0.31 |
| 27-Mar-24 | 962 Ballenas | 0 | 0 | 0 | 0 | 9 | 7.34 | 0.29 | 34.9 | 0.03 | 74.0 | 0.45 |
| 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) |
| 10-Apr-24 | 793 San Malo | 0 | 0 | 0 | 0 | 10 | 7.00 | 0.63 | 32.0 | 0.03 | 68.1 | 0.23 |
| 17-Apr-24 | 962 Ballenas | 0 | 0 | 0 | 0 | 10 | 6.80 | 0.54 | 32.2 | 0.03 | 68.3 | 0.25 |
| 23-Apr-24 | 1090 Plummer | 0 | 0 | 0 | 0 | 11 | 6.77 | 0.76 | 31.9 | 0.03 | 67.9 | 0.20 |
| 29-Apr-24 | 995 Sabine | 0 | 0 | 0 | 0 | 10 | 6.80 | 0.61 | 33.3 | 0.03 | 68.9 | 0.19 |
| 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) |
| 8-May-24 | 793 San Malo | 0 | 0 | 0 | 0 | 12 | 6.40 | 0.61 | 33.2 | 0.03 | 70.6 | 0.14 |
| 14-May-24 | 962 Ballenas | 0 | 0 | 0 | 0 | 12 | 6.69 | 0.54 | 34.6 | 0.03 | 73.6 | 0.16 |
| 21-May-24 | 1090 Plummer | 0 | 0 | 0 | 0 | 12 | 6.70 | 0.76 | 34.1 | 0.03 | 71.9 | 0.22 |
| 28-May-24 | 995 Sabine | 0 | 0 | 0 | 0 | 13 | 6.66 | 0.68 | 35.1 | 0.03 | 74.5 | 0.17 |
| 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) |
| 5-Jun-24 | 793 San Malo | 0 | 0 | 0 | 0 | 15 | 7.28 | 0.66 | 34.6 | 0.03 | 73.1 | 0.22 |
| 12-Jun-24 | 962 Ballenas | 0 | 0 | 0 | 0 | 14 | 6.51 | 0.46 | 35.6 | 0.03 | 75.8 | 0.24 |
| 18-Jun-24 | 1090 Plummer | 0 | 0 | 0 | 0 | 13 | 6.41 | 0.70 | 34.4 | 0.03 | 73.1 | 0.26 |
| 25-Jun-24 | 995 Sabine | 0 | 0 | 0 | 0 | 14 | 7.22 | 0.63 | 38.5 | 0.04 | 81.8 | 0.21 |
| 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 | 1090 Plummer | | | 0 | 0 | 13 | 6.82 | 0.67 | 41.6 | 0.04 | 89.2 | 0.24 |
| 9-Jul-24 | 962 Ballenas | | | 0 | 0 | 14 | 6.81 | 0.55 | 47.0 | 0.05 | 100.0 | 0.23 |
| 16-Jul-24 | 1090 Plummer | | | 0 | 0 | n/a | 6.94 | 0.66 | 48.0 | 0.05 | 102.0 | 0.28 |
| 23-Jul-24 | 995 Sabine | | | 0 | 0 | 15 | 6.83 | 0.70 | 48.4 | 0.05 | 102.7 | 0.19 |
| 31-Jul-24 | 1090 Plummer | | | 0 | 0 | 18 | 7.86 | 0.61 | 48.5 | 0.05 | 102.9 | 0.16 |
| 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) |
| 7-Aug-24 | 793 San Malo | 0 | 0 | 0 | 0 | 18 | 6.51 | 0.55 | 51.3 | 0.05 | 108.7 | 0.15 |
| 14-Aug-24 | 962 Ballenas | 0 | 0 | 0 | 0 | 16 | 7.12 | 0.43 | 53.0 | 0.05 | 112.3 | 0.28 |
| 20-Aug-24 | 1090 Plummer | 0 | 0 | 0 | 0 | 16 | 7.14 | 0.56 | 50.3 | 0.05 | 106.4 | 0.26 |
| 26-Aug-24 | 995 Sabine | 0 | 0 | 0 | 0 | 18 | 7.60 | 0.61 | 51.2 | 0.05 | 108.4 | 0.21 |
| 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) |
| 4-Sep-24 | 793 San Malo | 0 | 0 | 0 | 0 | 17 | 6.59 | 0.66 | 52.6 | 0.05 | 111.4 | 0.21 |
| 11-Sep-24 | 962 Ballenas | 0 | 0 | 0 | 0 | 16.5 | 7.00 | 0.51 | 53.1 | 0.05 | 112.2 | 0.17 |
| 18-Sep-24 | 1090 Plummer | 0 | 0 | 0 | 0 | 16 | 6.93 | 0.64 | 51.7 | 0.05 | 109.4 | 0.21 |
| 24-Sep-24 | 995 Sabine | 0 | 0 | 0 | 0 | 16 | 6.80 | 0.76 | 52.8 | 0.05 | 111.7 | 0.26 |
| 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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| 2-Oct-24 | 793 San Malo | 0 | 0 | 0 | 0 | 16 | 6.61 | 0.74 | 53.6 | 0.05 | 113.5 | 0.27 |
| 7-Oct-24 | 962 Ballenas | 0 | 0 | 0 | 0 | 15 | 6.82 | 0.51 | 56.2 | 0.06 | 118.9 | 0.23 |
| 16-Oct-24 | 1090 Plummer | 0 | 0 | 0 | 0 | 15 | 6.93 | 0.65 | 56.6 | 0.06 | 119.5 | 0.26 |
| 23-Oct-24 | 995 Sabine | 0 | 0 | 0 | 0 | 14 | 6.92 | 0.67 | 56.0 | 0.06 | 119.0 | 0.16 |
| 28-Oct-24 | 1090 Plummer | | | 0 | 0 | 13 | 7.39 | 0.49 | 52.5 | 0.05 | 110.9 | 0.14 |
| 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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| 6-Nov-24 | 793 San Malo | 0 | 0 | 0 | 0 | 12.1 | 6.54 | 0.58 | 44.7 | 0.04 | 94.7 | 0.27 |
| 25-Nov-24 | 1090 Plummer | 0 | 0 | 0 | 0 | 10 | | 0.51 | 38.1 | 0.04 | 81.1 | 0.18 |
| 25-Nov-24 | 793 San Malo | 0 | 0 | 0 | 0 | 10 | | 0.43 | 39.6 | 0.04 | 84.2 | 0.15 |
| 26-Nov-24 | 962 Ballenas | 0 | 0 | 0 | 0 | 10 | | 0.20 | 41.8 | 0.04 | 88.5 | 0.12 |
| CDN Drinking Water Guidelines | | <1 | 0 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | <1 |

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| 2-Dec-24 | 793 San Malo | 0 | 0 | 0 | 0 | 10 | | 0.50 | 38.5 | 0.04 | 81.8 | 0.11 |
| 10-Dec-24 | 962 Ballenas | 0 | 0 | 0 | 0 | 9 | | 0.33 | 41.0 | 0.04 | 86.5 | 0.13 |
| 17-Dec-24 | 1090 Plummer | | | 0 | 0 | 11 | | 0.66 | 33.8 | 0.03 | 71.5 | 0.11 |
| 17-Dec-24 | 995 Sabine | | | 0 | 0 | 11 | | 0.77 | 34.9 | 0.03 | 74.6 | 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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Comments:

A full potability scan, including metals and minerals, is completed once per year at an external lab.

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. |