



Regional District of Nanaimo - Water Services Department

Westurne Heights Water Analysis - 2022 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) | Total Iron (mg/L) | Manganese (mg/L) |
| 05-Dec-22 | 1263 Westurne | 0 | 0 | 0 | 0 | 8 | 7.18 | 0.51 | 47.9 | 0.05 | 101.8 | Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/we-sturne-heights | |
| 14-Dec-22 | 1252 Westurne | 0 | 0 | 0 | 0 | 5 | 7.01 | 0.50 | 46.4 | 0.05 | 98.4 | | |
| 14-Dec-22 | 1263 Westurne | 0 | 0 | 0 | 0 | 5 | 7.01 | 0.59 | 46.4 | 0.05 | 98.4 | | |
| 21-Dec-22 | 1260 Westurne | 0 | 0 | 0 | 0 | | 7.17 | 0.32 | 46.9 | 0.05 | 99.3 | | |
| | | | | | | | | | | | | | |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | 0.3 | 0.02 AO 0.12 MAC |

Legend:

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

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.

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



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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 3-Nov-22 | 1263 Westurne Hts | 0 | 0 | 0 | 0 | 11 | 7.38 | 0.45 | 47.0 | 0.05 | 99.8 | Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/we-sturne-heights | |
| 7-Nov-22 | 1260 Westurne Hts | 0 | 0 | 0 | 0 | 12 | 7.21 | 0.52 | 47.1 | 0.05 | 100.0 | | |
| 14-Nov-22 | 1252 Westurne Hts | 0 | 0 | 0 | 0 | 11 | 7.13 | 0.47 | 46.7 | 0.05 | 99.0 | | |
| 22-Nov-22 | 1260 Westurne Hts | 0 | 0 | 0 | 0 | 9 | 7.11 | 0.51 | 47.0 | 0.05 | 99.7 | | |
| | | | | | | | | | | | | | |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | 0.3 | 0.02 AO 0.12 MAC |

Legend:

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

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Comments:

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 5-Oct-22 | 1263 Westurne | 0 | 0 | 0 | 0 | 16 | 7.08 | 0.51 | 46.1 | 0.05 | 97.8 | Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/we-sturne-heights | |
| 12-Oct-22 | 1260 Westurne | 0 | 0 | 0 | 0 | 10 | 7.24 | 0.62 | 46.9 | 0.05 | 99.6 | | |
| 17-Oct-22 | 1252 Westurne | 0 | 0 | 0 | 0 | 13 | 7.14 | 0.44 | 46.5 | 0.05 | 98.8 | | |
| 26-Oct-22 | 1260 Westurne | 0 | 0 | 0 | 0 | 9 | 6.86 | 0.50 | 46.6 | 0.05 | 98.8 | | |
| | | | | | | | | | | | | | |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | 0.3 | 0.02 AO 0.12 MAC |

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:

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) | Total Iron (mg/L) | Manganese (mg/L) |
| 7-Sep-22 | 1263 Westurne | 0 | 0 | 0 | 0 | 16 | 7.02 | 0.50 | 45.2 | 0.04 | 96.0 | Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/we-sturne-heights | |
| 14-Sep-22 | 1260 Westurne | 0 | 0 | 0 | 0 | 11 | 7.20 | 0.36 | 46.2 | 0.05 | 98.0 | | |
| 21-Sep-22 | 1252 Westurne | 0 | 0 | 0 | 0 | 14 | 8.00 | 0.55 | 44.8 | 0.04 | 95.2 | | |
| 27-Sep-22 | 1260 Westurne | 0 | 0 | 0 | 0 | | 7.09 | 0.56 | 46.2 | 0.05 | 98.1 | | |
| | | | | | | | | | | | | | |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | 0.3 | 0.02 AO 0.12 MAC |

Legend:

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

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Comments:

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

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



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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 2-Aug-22 | 1263 Westurne Hts | 0 | 0 | 0 | 0 | n/a | 7.48 | 0.53 | 43.9 | 0.04 | 93.4 | Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/we-sturne-heights | |
| 8-Aug-22 | 1260 Westurne Hts | 0 | 0 | 0 | 0 | 9 | 7.09 | 0.42 | 43.1 | 0.04 | 93.0 | | |
| 16-Aug-22 | 1252 Westurne Hts | 0 | 0 | 0 | 0 | 12 | 7.21 | 0.48 | 45.2 | 0.04 | 95.8 | | |
| 24-Aug-22 | 1260 Westurne Hts | 0 | 0 | 0 | 0 | 9 | 7.32 | 0.50 | 42.2 | 0.04 | 95.8 | | |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | 0.3 | 0.02 AO 0.12 MAC |

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 6-Jul-22 | 1263 Westurne Hts | 0 | 0 | 0 | 0 | 14 | 7.64 | 0.63 | 44.5 | 0.04 | 94.4 | Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/we-sturne-heights | |
| 13-Jul-22 | 1260 Westurne Hts | 0 | 0 | 0 | 0 | 12 | 7.44 | 0.58 | 44.9 | 0.04 | 95.3 | | |
| 19-Jul-22 | 1252 Westurne Hts | 0 | 0 | 0 | 0 | 14 | 7.03 | 0.63 | 44.6 | 0.04 | 94.6 | | |
| 26-Jul-22 | 1260 Westurne Hts | 0 | 0 | 0 | 0 | 12 | 7.29 | 0.56 | 44.9 | 0.04 | 95.3 | | |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | 0.3 | 0.02 AO 0.12 MAC |

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 1-Jun-22 | 1260 Westurne | | | 0 | 0 | 9 | 7.10 | 0.38 | 43.6 | 0.04 | 92.6 | Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/we-sturne-heights | |
| 8-Jun-22 | 1252 Westurne | 0 | 0 | 0 | 0 | 14 | 7.14 | 0.41 | 43.9 | 0.04 | 93.5 | | |
| 15-Jun-22 | 1252 Westurne | 0 | 0 | 0 | 0 | 9 | 7.08 | 0.52 | 42.7 | 0.04 | 90.6 | | |
| 20-Jun-22 | 1260 Westurne | 0 | 0 | 0 | 0 | 11 | 7.43 | 0.45 | 43.6 | 0.04 | 91.6 | | |
| 29-Jun-22 | 1263 Westurne | 0 | 0 | 0 | 0 | 14 | 7.45 | 0.36 | 44.3 | 0.04 | 93.9 | | |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | 0.3 | 0.02 AO 0.12 MAC |

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 4-May-22 | 1263 Westurne | 0 | 0 | 0 | 0 | 9 | 7.28 | 0.39 | 43.0 | 0.04 | 91.1 | Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/we-sturne-heights | |
| 10-May-22 | 1260 Westurne | 0 | 0 | 0 | 0 | 9 | 7.15 | 0.39 | 43.2 | 0.04 | 91.5 | | |
| 16-May-22 | 1252 Westurne | 0 | 0 | 0 | 0 | 9 | 7.08 | 0.52 | 42.7 | 0.04 | 90.6 | | |
| 25-May-22 | 1260 Westurne | 0 | 0 | 0 | 0 | 9 | 7.00 | 0.38 | 42.6 | 0.04 | 90.4 | | |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | 0.3 | 0.02 AO 0.12 MAC |

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 5-Apr-22 | 1263 Westurne Hts | 0 | 0 | 0 | 0 | 8 | 7.08 | 0.47 | 43.6 | 0.04 | 92.8 | Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/we-sturne-heights | |
| 13-Apr-22 | 1260 Westurne Hts | 0 | 0 | 0 | 0 | 8 | 7.23 | 0.46 | 42.9 | 0.04 | 82.9 | | |
| 20-Apr-22 | 1252 Westurne Hts | 0 | 0 | 0 | 0 | 8 | 7.14 | 0.48 | 42.7 | 0.04 | 90.7 | | |
| 25-Apr-22 | 1260 Westurne Hts | 0 | 0 | 0 | 0 | 9 | 7.20 | 0.40 | 42.7 | 0.04 | 90.6 | | |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | 0.3 | 0.02 AO 0.12 MAC |

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 2-Mar-22 | 1263 Westurne Hts | 0 | 0 | 0 | 0 | 5 | 7.16 | 0.64 | 43.4 | 0.04 | 92.1 | Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/we-sturne-heights | |
| 8-Mar-22 | 1260 Westurne Hts | 0 | 0 | 0 | 0 | 8 | 7.32 | 0.59 | 43.5 | 0.04 | 92.3 | | |
| 16-Mar-22 | 1252 Westurne | 0 | 0 | 0 | 0 | 7 | 7.01 | 0.59 | 42.9 | 0.04 | 91.9 | | |
| 23-Mar-22 | 1260 Westurne Hts | 0 | 0 | 0 | 0 | 8 | 7.54 | 0.67 | 43.7 | 0.04 | 92.8 | | |
| 29-Mar-22 | 1260 Westurne Hts | | | 0 | 0 | 9 | 7.50 | 0.59 | 44.3 | 0.04 | 93.9 | | |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | 0.3 | 0.02 AO 0.12 MAC |

Legend:

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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) | Total Iron (mg/L) | Manganese (mg/L) |
| 2-Feb-22 | 1263 Westurne | 0 | 0 | 0 | 0 | 4 | 7.11 | 0.61 | 42.7 | 0.04 | 90.6 | Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/we-sturne-heights | |
| 8-Feb-22 | 1260 Westurne Hts | 0 | 0 | 0 | 0 | 9 | 7.36 | 0.54 | 43.3 | 0.04 | 91.9 | | |
| 15-Feb-22 | 1252 Westurne Hts | 0 | 0 | 0 | 0 | n/a | 6.98 | 0.49 | 42.8 | 0.04 | 89.9 | | |
| 23-Feb-22 | 1260 Westurne Hts | 0 | 0 | 0 | 0 | 8 | 7.35 | 0.67 | 43.3 | 0.04 | 92.0 | | |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | 0.3 | 0.02 AO 0.12 MAC |

Legend:

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

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Comments:

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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Westerne Heights Water Analysis - 2022 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) | Total Iron (mg/L) | Manganese (mg/L) |
| 5-Jan-22 | 1260 Westerne Heights | 0 | 0 | 0 | 0 | 8 | 7.16 | 0.51 | 42.7 | 0.04 | 90.6 | Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/westerne-heights | |
| 12-Jan-22 | 1260 Westerne Heights | | | 0 | 0 | 6 | 7.31 | 0.63 | 43.2 | 0.04 | 91.6 | | |
| 18-Jan-22 | 1252 Westerne Heights | 0 | 0 | 0 | 0 | 5 | 6.79 | 0.40 | 43.3 | 0.04 | 91.9 | | |
| 18-Jan-22 | 1263 Westerne Heights | 0 | 0 | 0 | 0 | 5 | | 0.57 | | | | | |
| 26-Jan-22 | 1260 Westerne Heights | 0 | 0 | 0 | 0 | 9 | 7.24 | 0.52 | 43.3 | 0.04 | 91.9 | | |
| CDN Drinking Water Guidelines | | <1 | <1 | <1 | <1 | n/a | 7.0-10.5 | n/a | 500 | n/a | n/a | 0.3 | 0.02 AO 0.12 MAC |

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Comments:

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. |