REGIONAL DISTRICT OF NANAIMO

Water Service Area Annual Report 2024

Nanoose Bay Peninsula Water Service Area

June 2025

REGIONAL DISTRICT OF NANAIMO

Water & Utility Services Department

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REGIONAL DISTRICT OF NANAIMO

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1.0 Introduction

The following annual report describes the Nanoose Bay Peninsula (NBP) Water Service Area and summarizes the water quality and production data from 2024. This report also includes a summary of inquiries and complaints, completed and proposed maintenance activities, Operator Certification, the Emergency Response & Contingency Plan, and the Cross Connection Control Program. This report is to be submitted to Island Health by the Spring of 2025.

2.0 Nanoose Bay Peninsula Water Service Area

The Nanoose Bay Peninsula Water System was established in 2005 by amalgamating the 7 small water service areas located within the Nanoose Bay Peninsula. The previous service areas, if referred to in this report, are noted as neighbourhoods within the NBP service area. In 2024, the Nanoose Peninsula Water System was comprised of 2271 residential and 67 commercial water service customers.

The water supply is a combination of groundwater wells and surface water from the Englishman River. The water supply is chlorinated and stored in several reservoirs throughout Nanoose Bay. Generators are in-place in the event of a power outage. A map of the Nanoose Bay Peninsula Water Service Area is provided in Appendix A for reference.

2.1 Groundwater Wells

Fifteen groundwater production wells are located within the Nanoose Bay Peninsula. Nanoose Wells #2, #3, and #4 are on standby for use during periods of high demand (if required). Nanoose Well #5 has not been in use since 2002, due to saltwater intrusion, and has been permanently converted to a provincial monitoring well. Nanoose Well #6 hasn't been used since 2010 due to operational challenges with chlorination. Nanoose Well #7 was drilled in 2008. West Bay #3 experienced reduced capacity over time and was replaced by West Bay #4, which was drilled in 2019. Fairwinds Well #1 was replaced by Tippet Road Well #1 in 2020. Fairwinds Well #2 was replaced by West Bay Well #5, which was drilled in 2024.

Well / Name	Well Depth	Wellhead Protection In Place	Treated/Untreated with Chlorine
Wallbrook #1	16.9 m	Yes	Treated
Madrona #4	52.1 m	Yes	Un-treated
Madrona #8	17.1m	Yes	Treated
Nanoose #2	53.3 m	Yes	Treated
Nanoose #3	52.7 m	Yes	Treated
Nanoose #4	59.1 m	Yes	Treated
Nanoose #6	107.0 m	Yes	(Not in use)
Nanoose #7	60.6 m	Yes	(Not in use)
Fairwinds #1	69.8 m	Yes	(Not in use)
Fairwinds #2	75.3 m	Yes	(Not in use)
Fairwinds #3	72.2 m	Yes	Treated
West Bay #4	75.6 m	Yes	Treated
West Bay #5	79.2 m	Yes	Treated

Well / Name	Well Depth	Wellhead Protection In Place	Treated/Untreated with Chlorine
Tippet Rd #1	71.0 m	Yes	Treated
Parker Road	91.4 m	Yes	Treated

A drinking water filtration plant is located at 2480 Nanoose Road, and its purpose is to filter out iron, manganese, and ammonia from Fairwinds Wells #3, Tippet Road Well #1, West Bay Well #4 and West Bay Well #5. A back-up generator is available in the event of a power outage.

Nanoose Bay Water Treatment Plant

2.2 Reservoirs

Six water storage reservoirs are present in the Nanoose Bay Peninsula Water System as follows;

- Madrona (concrete) - 485 m^3 (100,000 imperial gallons) capacity
- Eagle Heights (concrete) - 341 m^3 (75,000 imperial gallons) capacity
- Dolphin (concrete) - 455 m^3 (100,000 imperial gallons) capacity
- Fairwinds Res #1 (concrete) - 701 m^3 (154,000 imperial gallons) capacity
- Fairwinds Res #2 (concrete) - 701 m^3 (154,000 imperial gallons) capacity
- Arbutus Park (lined concrete, wooden roof) - 568 m^3 (125, 000 imp. gallons) capacity

2.3 Distribution System

The water distribution system in Nanoose Bay is summarized in the table below. Fire hydrants (287) are located throughout the water service area.

Watermain Material	Length of mains in NBP Water Service Area	Prevalence in Water Service Area
Asbestos-concrete:		
150mm or smaller	9.7 km	12.2%
200mm or larger	2.7 km	3.4%
PVC:		
150mm or smaller	23.2 km	29.1%
200mm or larger	33.5 km	42.1%
Ductile Iron:		
150mm or smaller	0.2 km	0.2%
200mm or larger	10.3 km	13.0%

Note: 'PVC' is poly-vinylchloride (plastic)

3.0 Water Sampling and Testing Program

Water sampling and testing is carried out weekly in the distribution system. Notably, the chlorine residual levels are tested weekly to ensure the absence of bacterial regrowth in the watermains. The following table includes a summary of all testing:

Timing	Location	Tests
Weekly	RDN (in-house) Laboratory	Total coliforms, E.Coli, Temperature, pH, Conductivity, Chlorine residual, Salinity, TDS
Monthly	BC Centre for Disease Control	Total coliforms, E.Coli
Annual Source Water Testing (every Fall)	Bureau Veritas	Complete potability testing of raw well water, including T-Ammonia
Annual System Water Testing (every Spring)	Bureau Veritas	Complete potability testing of distribution system, including T-Ammonia
Filtration Plant Output Once per month	Bureau Veritas	True colour, Ammonia, Iron, Manganese and Chloramines

4.0 Water Quality - Source Water and Distribution System

Up-to-date water quality test reports and lab data are posted monthly on the RDN website at https://rdn.bc.ca/nanoose-bay-peninsula. Tables of water quality testing results for both the source water and the distribution system are provided in Appendix B of this report.

5.0 Water Quality Inquiries and Complaints

Tap water quality has improved over the years with the construction of the Nanoose Bay Peninsula water filtration plant and Englishman River Water Service. Filtered groundwater is mixed with filtered water from the Englishman River and stored in the same six reservoirs throughout Nanoose Bay.

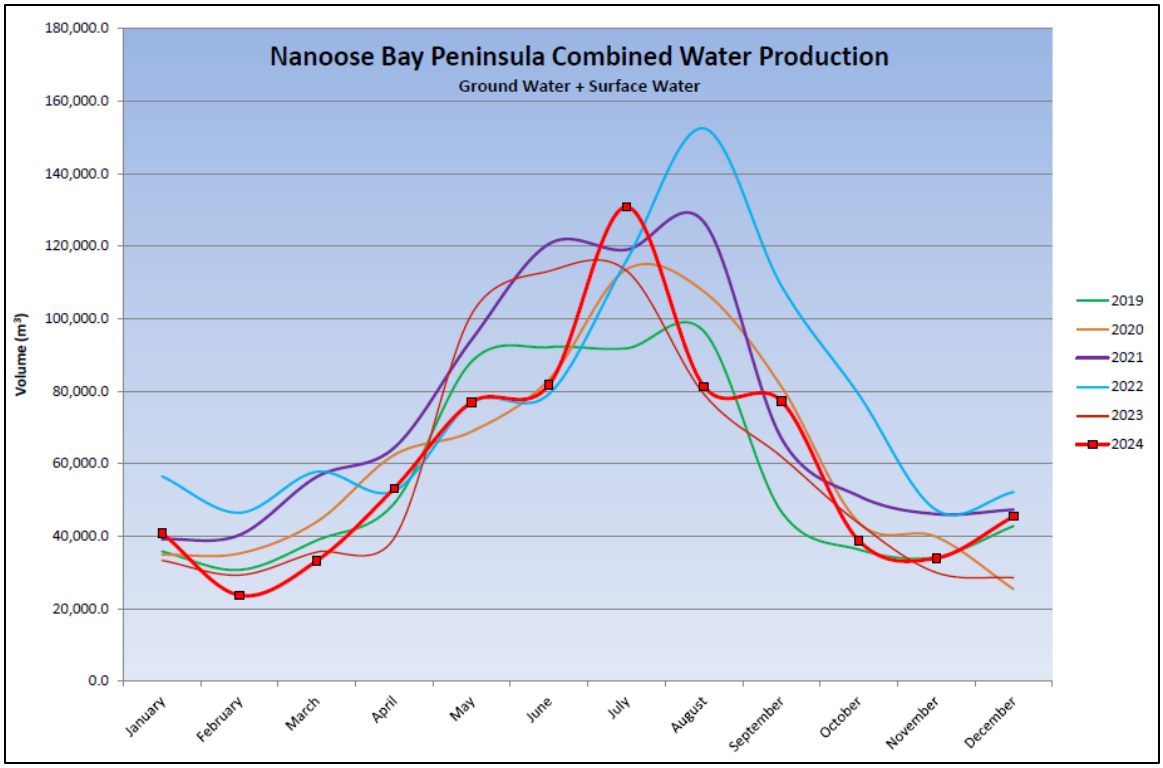
Several inquiries were received from the Nanoose Bay Peninsula Water Service Area in 2024. Iron and manganese water discolouration was present intermittently which is managed by flushing the watermains in stagnant areas. Complaints about high water bills were addressed through the RDN's Leak Adjustment Policy. Inquiries regarding water pressure were answered on a case by case basis. A summary of the water system incidents in 2023 is given in the table below.

Activity in 2024	Date(s)	History/Notes
Boil Water Advisories	None	None, ever.
High Turbidity Events	None	None, ever.
Equipment Malfunction	June-Dec	Water filtration plant offline for repairs and media replacement.
Water Main Breaks	None	None.
Pump Failures	None	None.

Stewart Road Pump Station (2020)

6.0 Groundwater Production and Consumption

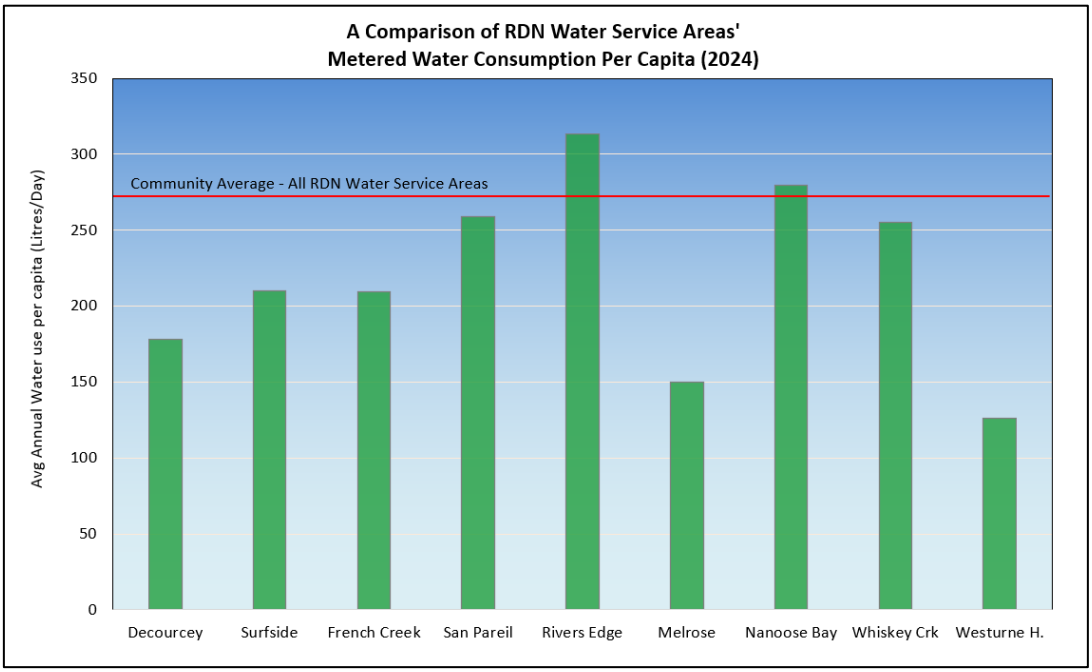
The combined volumes of surface water and groundwater produced in the Nanoose Bay Peninsula for the past 6 years is shown in the chart below.



Andover Road Pressure Reducing Valve (PRV) Station and kiosk wrap (2024)

Consumption

In the fall/winter of 2023/2024, the average usage per home in the Nanoose Bay Peninsula Water Service Area was 0.44 cubic metres per day (96.8 imperial gallons). In the summer of 2024, the average water usage was 1.08 cubic metres per day (237.6 imperial gallons). Based on these figures, the annual consumption per capita is estimated to be 279 L/day (based on 2.4 people/household). This consumption is ***4% more*** than the average of all the other RDN water systems of 270 L/day/capita in 2024.



7.0 Maintenance Program

Weekly pump station inspections are carried out to reduce or eliminate the risk of contamination and system failure, and to ensure the consistent application of chlorine for treatment purposes. Watermains are flushed once annually in the Spring. Fire hydrants are serviced once per year (either 'A-level' or 'B-level' maintenance). Water storage reservoirs are drained and cleaned once every 3-4 years, as required. Twenty-four hour on-call coverage is in place to respond to water system emergencies and alarms.

8.0 Operator Certification

The Regional District Water & Utility Services staff is comprised of one Manager, one Project Engineer, one Engineering Technologist, one Engineering Technician, one Chief Operator, and seven certified operators. The operators receive ongoing training and certification in:

- ✓ Water Treatment
- ✓ Water Distribution
- ✓ Wastewater Collection
- ✓ Cross Connection Control
- ✓ Asbestos Awareness
- ✓ Chlorine Handling
- ✓ WHMIS (Workplace Hazardous Material Information System)
- ✓ TDG (Transportation of Dangerous Goods
- ✓ Confined Space Awareness
- ✓ Fall Protection
- ✓ First Aid
- ✓ Silica Awareness
- ✓ Cyber Security

9.0 Water Service Area Projects

9.1 2024 Completed Studies & Projects

- Completed the Andover Road PRV upgrade and kiosk wrap;
- Completed the Arbutus reservoir replacement feasibility study/review;
- Undertook public engagement for reservoir improvement project funding;
- Drilled West Bay Well #5 to replace Fairwinds Well #2;
- Began design of backup power upgrade for Fairwinds Well #3, West Bay Well #5, and Tippet Well #1;
- West Bay #4 generator connection;
- Corresponded with residents regarding water conservation;
- Completed irrigation checks for high water users;
- Counselled residents regarding water leak repairs and bill adjustments;
- Enforced outdoor watering restrictions during summer months;
- Continued the 2020-2030 Water Conservation Plan;
- Followed Cross Connection Control program to reduce backflow prevention risks;
- Completed regular watermain flushing and hydrant maintenance;
- Continued valve maintenance program; and
- Maintained a high level of water quality.

West Bay Well #5 and pitless adaptor being installed (2024)

9.2 2025 Proposed Projects & Upgrades

- Decommission Nanoose Well #6;
- Continue water meter replacement project;
- Tender the Arbutus Reservoir refurbishing project;
- Begin Dolphin reservoir repair planning;
- Complete backup power upgrade for Fairwinds Well #3, West Bay Well #5, Tippet Well #1; and West Bay #4;

- Hach equipment service and calibrations;
- Complete irrigation checks for high water users;
- Continue watermain flushing program and hydrant maintenance;
- Continue valve maintenance program;
- Continue the 2020-2030 DWWP Water Conservation Plan; and
- Continue to offer numerous water-saving incentives via rebates.

10.0 Emergency Response & Contingency Plan

The Regional District Emergency Response & Contingency Plan (ERCP) contains procedures and contact information to efficiently respond to water system emergencies such as contamination of water supply, loss of supply, pump failure, and drought management. The ERCP was reviewed and updated in 2024, and copies are available on our website, at each RDN office, in each pumphouse, and in each Water Services vehicle. A copy of the ERCP is also attached to this report in Appendix C.

11.0 Supply Security

The RDN continues to effectively manage water supply in its service areas in response to ongoing demand and the effects of climate change. Most RDN water service areas are unlikely to expand, so growth in demand is not expected. Initiatives that provide resiliency for the groundwater sources that serve residents remain a high priority. Reservoir capacity and redundancy are reviewed with regards to water storage during periods of drought, and water from backup sources is available to be delivered in the case of an emergency. Groundwater quality is regularly tested in all RDN water service areas. The aquifers within the regional district are monitored through the RDN's Drinking Water and Watershed Protection (DWWP) program. The most sustainable way to protect water supply is through demand management (conservation), which is promoted through outreach and stewardship initiatives provided by the RDN's Team WaterSmart , as well as the RDN Water Service Area's Water Conservation Plan 2020-2030. Rebates for well water testing, water smart landscaping, and rainwater harvesting further assist RDN residents to reduce water usage in high demand seasons. A tiered system for water rates (introduced in 2023) helps promote conservation by rewarding low water users with reduced rates and encouraging high water users to seek ways to use less. Additional planning and preparation initiatives will be introduced in the future to support water supply security.

12.0 Cross Connection Control (CCC)

The RDN's Cross Connection Control Program was put in place to protect the public health by reducing the risk of contaminants flowing back into the public water supply. The RDN Manager of Water Services is the designated Cross Connection Control Manager.

The RDN's Cross Connection Control Program addresses cross connection threats through operating policies and procedures, as well as assisting customers with backflow preventer selection, installation, testing, maintenance and reporting. The program receives its authority from *RDN Cross Connection Control Regulation Bylaw No. 1788*, and the *British Columbia Building Code*, Part 7, which requires that potable water be protected from contamination. Additionally,

a webpage has been established at https://rdn.bc.ca/cross-connection-control-program to educate RDN water service customers about cross connection hazards, and lists the relevant links to current standards and resources.

Two of the RDN's water system operators are certified backflow assembly testers through the British Columbia Water & Waste Association (BCWWA), and one operator is additionally certified as a Cross Connection Control Inspector.

13.0 Cyber Security

The RDN uses a multi-level approach to cyber-security. Corporate network security is employed via a universal threat management gateway that implements various methods of data security, which includes daily definition updates to block known cyber threats. In addition, all RDN PC's are protected with anti-virus software. RDN water systems are connected to the corporate network via IP-Sec VPN's for remote management by information technology and equipment operators.

Future infrastructure upgrades will see RDN water systems located on segregated networks to limit the vulnerability from cybersecurity threats. All RDN employees are required to regularly complete extensive training on cyber security awareness.

14.0 Closing

An annual report for 2025 will be prepared and submitted to Island Health in the Spring of 2026. Annual reports are also available on the RDN website: https://rdn.bc.ca/nanoose-bay-peninsula.

Arbutus Reservoir review

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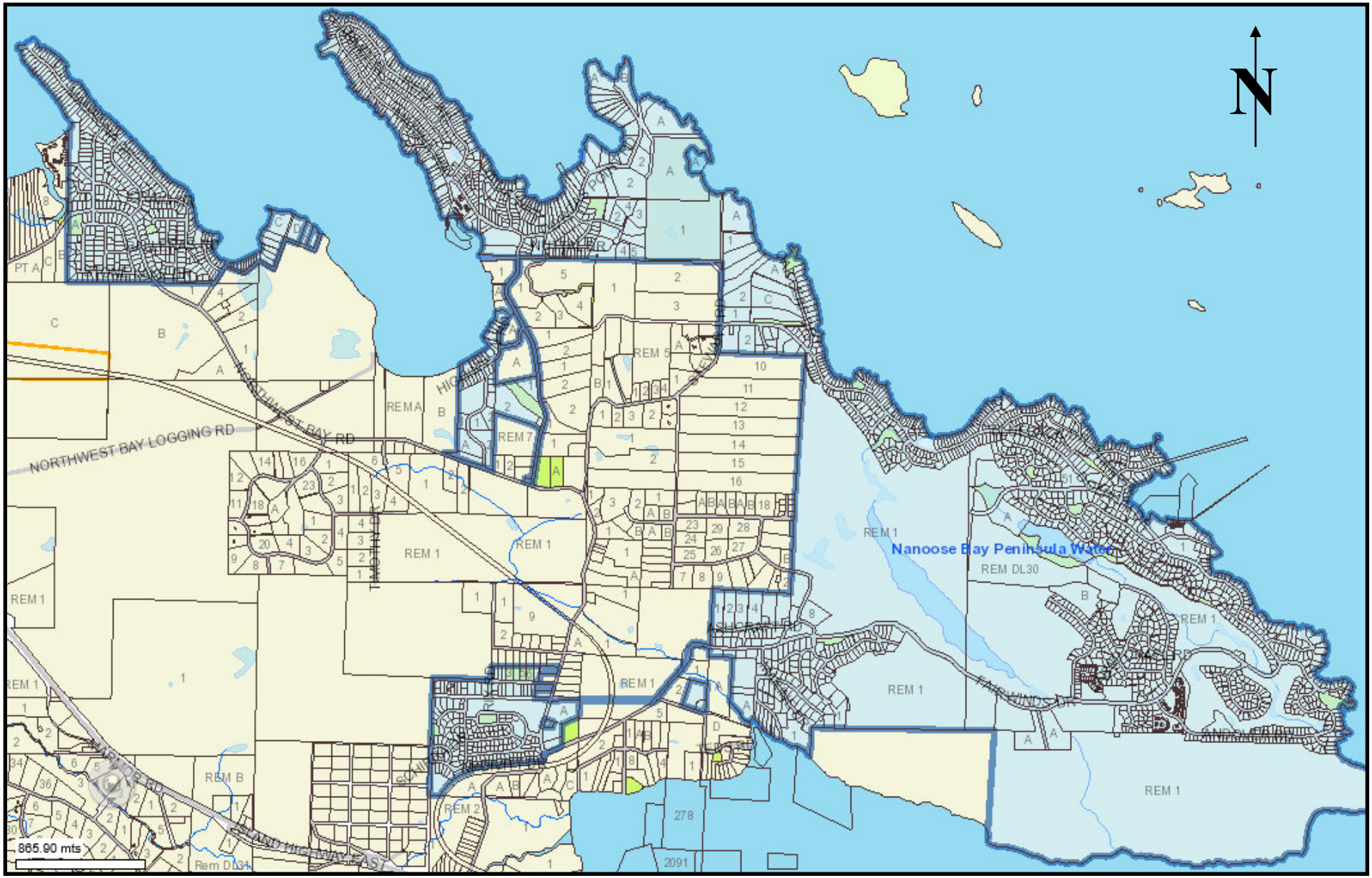
APPENDIX A - MAP OF NANOOSE BAY PENINSULA WATER SERVICE AREA



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APPENDIX B

WATER QUALITY TESTING RESULTS

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NANOOSE BAY PENINSULA WATER SYSTEM

island health

Facility Location: Nanoose Bay

Facility Information: Facility Type: 301-10,000 connections

Facility Sampling History:

Site Name	Date Collected	Total Coliform	Total E. Coli
Arbutus Sample Port - 2329 Chain Way	10-Jan-2024	LT1	LT1
Driftwood Sample Port - 2359 Higginson Rd	10-Jan-2024	LT1	LT1
Fairwinds Sample Port - 3541 Shelby Ln.	10-Jan-2024	LT1	LT1
Madrona Sample Port - 1565 Stone Lake Dr.	10-Jan-2024	LT1	LT1
Nanoose Sample Port - 3427 Tyee Cres.	10-Jan-2024	LT1	LT1
West Bay Sample Port - 2454 Armstrong Cres.	10-Jan-2024	LT1	LT1
Arbutus Sample Port - 2339 Garry Oak Dr.	23-Jan-2024	LT1	LT1
Arbutus Sample Port - Florence Drive & Anchor Way	23-Jan-2024	LT1	LT1
Beachcomber Sample Port - 1270 Seadog Road	23-Jan-2024	LT1	LT1
Beachcomber Sample Port - 1639 Marina Way	23-Jan-2024	LT1	LT1
Fairwinds Sample Port - 2400 Evanshire Cres.	23-Jan-2024	LT1	LT1
Fairwinds Sample Port - 3500 Fairwind Dr.	23-Jan-2024	LT1	LT1
Fairwinds Sample Port - 3730 Fairwinds Dr.	23-Jan-2024	LT1	LT1
Madrona Sample Port - 1358 Madrona Drive	23-Jan-2024	LT1	LT1
Madrona Sample Port - 1556 Arbutus Dr.	23-Jan-2024	LT1	LT1
West Bay Sample Port - 2315 Ida Lane	23-Jan-2024	LT1	LT1
Fairwinds Sample Port - 1996 Highland Rd.	29-Jan-2024	LT1	LT1
Fairwinds Sample Port - 3383 Redden Road	29-Jan-2024	LT1	LT1
Fairwinds Sample Port - 3465 Cambridge Rd.	29-Jan-2024	LT1	LT1
Nanoose Sample Port - 3119 Swallow Cres.	29-Jan-2024	LT1	LT1
Arbutus Sample Port - 2329 Chain Way	7-Feb-2024	LT1	LT1
Driftwood Sample Port - 2359 Higginson Rd	7-Feb-2024	LT1	LT1
Fairwinds Sample Port - 3541 Shelby Ln.	7-Feb-2024	LT1	LT1
Madrona Sample Port - 1565 Stone Lake Dr.	7-Feb-2024	LT1	LT1
Nanoose Sample Port - 3427 Tyee Cres.	7-Feb-2024	LT1	LT1
West Bay Sample Port - 2454 Armstrong Cres.	7-Feb-2024	LT1	LT1
Arbutus Sample Port - 2339 Garry Oak Dr.	13-Feb-2024	LT1	LT1
Beachcomber Sample Port - 1270 Seadog Road	13-Feb-2024	LT1	LT1
Fairwinds Sample Port - 2400 Evanshire Cres.	13-Feb-2024	LT1	LT1
Fairwinds Sample Port - 3383 Redden Road	13-Feb-2024	LT1	LT1
Madrona Sample Port - 1556 Arbutus Dr.	13-Feb-2024	LT1	LT1

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Site Name	Date Collected	Total Coliform	Total E. Coli
West Bay Sample Port - 2315 Ida Lane	13-Feb-2024	LT1	LT1
Arbutus Sample Port - Florence Drive and Anchor Way	20-Feb-2024	LT1	LT1
Beachcomber Sample Port - 1639 Marina Way	20-Feb-2024	LT1	LT1
Fairwinds Sample Port - 3500 Fairwind Dr.	20-Feb-2024	LT1	LT1
Fairwinds Sample Port - 3730 Fairwinds Dr.	20-Feb-2024	LT1	LT1
Madrona Sample Port - 1358 Madrona Drive	20-Feb-2024	LT1	LT1
Fairwinds Sample Port - 1996 Highland Rd.	26-Feb-2024	LT1	LT1
Fairwinds Sample Port - 3465 Cambridge Rd.	26-Feb-2024	LT1	LT1
Nanoose Sample Port - 3119 Swallow Cres.	26-Feb-2024	LT1	LT1
Arbutus Sample Port - 2329 Chain Way	5-Mar-2024	LT1	LT1
Driftwood Sample Port - 2359 Higginson Rd	5-Mar-2024	LT1	LT1
Fairwinds Sample Port - 1996 Highland Rd.	5-Mar-2024	LT1	LT1
Madrona Sample Port - 1565 Stone Lake Dr.	5-Mar-2024	LT1	LT1
Nanoose Sample Port - 3427 Tyee Cres.	5-Mar-2024	LT1	LT1
West Bay Sample Port - 2454 Armstrong Cres.	5-Mar-2024	LT1	LT1
Arbutus Sample Port - 2339 Garry Oak Dr.	12-Mar-2024	LT1	LT1
Beachcomber Sample Port - 1270 Seadog Road	12-Mar-2024	LT1	LT1
Fairwinds Sample Port - 2400 Evanshire Cres.	12-Mar-2024	LT1	LT1
Fairwinds Sample Port - 3383 Redden Road	12-Mar-2024	LT1	LT1
Madrona Sample Port - 1556 Arbutus Dr.	12-Mar-2024	LT1	LT1
West Bay Sample Port - 2315 Ida Lane	12-Mar-2024	LT1	LT1
Arbutus Sample Port - Florence Drive and Anchor Way	20-Mar-2024	LT1	LT1
Beachcomber Sample Port - 1639 Marina Way	20-Mar-2024	LT1	LT1
Fairwinds Sample Port - 3500 Fairwind Dr.	20-Mar-2024	LT1	LT1
Fairwinds Sample Port - 3730 Fairwinds Dr.	20-Mar-2024	LT1	LT1
Madrona Sample Port - 1358 Madrona Drive	20-Mar-2024	LT1	LT1
Fairwinds Sample Port - 1996 Highland Rd.	27-Mar-2024	LT1	LT1
Fairwinds Sample Port - 3465 Cambridge Rd.	27-Mar-2024	LT1	LT1
Nanoose Sample Port - 3119 Swallow Cres.	27-Mar-2024	LT1	LT1
Arbutus Sample Port - 2329 Chain Way	10-Apr-2024	LT1	LT1
Driftwood Sample Port - 2359 Higginson Rd	10-Apr-2024	LT1	LT1
Fairwinds Sample Port - 3541 Shelby Ln.	10-Apr-2024	LT1	LT1
Madrona Sample Port - 1565 Stone Lake Dr.	10-Apr-2024	LT1	LT1
Nanoose Sample Port - 3427 Tyee Cres.	10-Apr-2024	LT1	LT1
West Bay Sample Port - 2454 Armstrong Cres.	10-Apr-2024	LT1	LT1
Arbutus Sample Port - 2339 Garry Oak Dr.	17-Apr-2024	LT1	LT1
Beachcomber Sample Port - 1270 Seadog Road	17-Apr-2024	LT1	LT1
Fairwinds Sample Port - 2400 Evanshire Cres.	17-Apr-2024	LT1	LT1

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Site Name	Date Collected	Total Coliform	Total E. Coli
Fairwinds Sample Port - 3383 Redden Road	17-Apr-2024	LT1	LT1
Madrona Sample Port - 1556 Arbutus Dr.	17-Apr-2024	LT1	LT1
Arbutus Sample Port - Florence Drive and Anchor Way	23-Apr-2024	LT1	LT1
Fairwinds Sample Port - 3500 Fairwind Dr.	23-Apr-2024	LT1	LT1
Fairwinds Sample Port - 3730 Fairwinds Dr.	23-Apr-2024	LT1	LT1
Madrona Sample Port - 1358 Madrona Drive	23-Apr-2024	LT1	LT1
Nanoose Sample Port - 3119 Swallow Cres.	23-Apr-2024	LT1	LT1
West Bay Sample Port - 2315 Ida Lane	23-Apr-2024	LT1	LT1
Beachcomber Sample Port - 1639 Marina Way	30-Apr-2024	LT1	LT1
Fairwinds Sample Port - 1996 Highland Rd.	30-Apr-2024	LT1	LT1
Fairwinds Sample Port - 3465 Cambridge Rd.	30-Apr-2024	LT1	LT1
Madrona # 8 RAW	30-Apr-2024	LT1	LT1
Arbutus Sample Port - 2329 Chain Way	6-May-2024	LT1	LT1
Driftwood Sample Port - 2359 Higginson Rd	6-May-2024	LT1	LT1
Fairwinds Sample Port - 3541 Shelby Ln.	6-May-2024	LT1	LT1
Madrona Sample Port - 1565 Stone Lake Dr.	6-May-2024	LT1	LT1
Nanoose Sample Port - 3427 Tyee Cres.	6-May-2024	LT1	LT1
West Bay Sample Port - 2454 Armstrong Cres.	6-May-2024	LT1	LT1
Arbutus Sample Port - 2339 Garry Oak Dr.	15-May-2024	LT1	LT1
Beachcomber Sample Port - 1270 Seadog Road	15-May-2024	LT1	LT1
Fairwinds Sample Port - 2400 Evanshire Cres.	15-May-2024	LT1	LT1
Fairwinds Sample Port - 3383 Redden Road	15-May-2024	LT1	LT1
Arbutus Sample Port - Florence Drive and Anchor Way	22-May-2024	LT1	LT1
Beachcomber Sample Port - 1639 Marina Way	22-May-2024	LT1	LT1
Fairwinds Sample Port - 3500 Fairwind Dr.	22-May-2024	LT1	LT1
Fairwinds Sample Port - 3730 Fairwinds Dr.	22-May-2024	LT1	LT1
Madrona Sample Port - 1358 Madrona Drive	22-May-2024	LT1	LT1
West Bay Sample Port - 2315 Ida Lane	22-May-2024	LT1	LT1
Fairwinds Sample Port - 1996 Highland Rd.	28-May-2024	LT1	LT1
Fairwinds Sample Port - 3465 Cambridge Rd.	28-May-2024	LT1	LT1
Nanoose Sample Port - 3119 Swallow Cres.	28-May-2024	LT1	LT1
Arbutus Sample Port - 2329 Chain Way	4-Jun-2024	LT1	LT1
Beachcomber Sample Port - 1639 Marina Way	4-Jun-2024	LT1	LT1
Fairwinds Sample Port - 3541 Shelby Ln.	4-Jun-2024	LT1	LT1
Madrona Sample Port - 1565 Stone Lake Dr.	4-Jun-2024	LT1	LT1
Nanoose Sample Port - 3427 Tyee Cres.	4-Jun-2024	LT1	LT1
West Bay Sample Port - 2454 Armstrong Cres.	4-Jun-2024	LT1	LT1
Arbutus Sample Port - 2339 Garry Oak Dr.	12-Jun-2024	LT1	LT1

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Site Name	Date Collected	Total Coliform	Total E. Coli
Beachcomber Sample Port - 1270 Seadog Road	12-Jun-2024	LT1	LT1
Fairwinds Sample Port - 2400 Evanshire Cres.	12-Jun-2024	LT1	LT1
Fairwinds Sample Port - 3383 Redden Road	12-Jun-2024	LT1	LT1
Madrona Sample Port - 1556 Arbutus Dr.	12-Jun-2024	LT1	LT1
West Bay Sample Port - 2315 Ida Lane	12-Jun-2024	LT1	LT1
Arbutus Sample Port - Florence Drive and Anchor Way	18-Jun-2024	LT1	LT1
Driftwood Sample Port - 2359 Higginson Rd	18-Jun-2024	OGO OGC	OGO OGC
Fairwinds Sample Port - 3465 Cambridge Rd.	18-Jun-2024	LT1	LT1
Fairwinds Sample Port - 3500 Fairwind Dr.	18-Jun-2024	LT1	LT1
Madrona Sample Port - 1358 Madrona Drive	18-Jun-2024	LT1	LT1
Fairwinds Sample Port - 3383 Redden Road	25-Jun-2024	LT1	LT1
Fairwinds Sample Port - 3465 Cambridge Rd.	25-Jun-2024	LT1	LT1
Nanoose Sample Port - 3119 Swallow Cres.	25-Jun-2024	LT1	LT1
Arbutus Sample Port - 2329 Chain Way	3-Jul-2024	LT1	LT1
Beachcomber Sample Port - 1639 Marina Way	3-Jul-2024	LT1	LT1
Fairwinds Sample Port - 3541 Shelby Ln.	3-Jul-2024	LT1	LT1
Madrona Sample Port - 1565 Stone Lake Dr.	3-Jul-2024	LT1	LT1
Nanoose Sample Port - 3427 Tyee Cres.	3-Jul-2024	LT1	LT1
West Bay Sample Port - 2454 Armstrong Cres.	3-Jul-2024	LT1	LT1
Arbutus Sample Port - 2339 Garry Oak Dr.	10-Jul-2024	LT1	LT1
Driftwood Sample Port - 2359 Higginson Rd	10-Jul-2024	LT1	LT1
Fairwinds Sample Port - 2400 Evanshire Cres.	10-Jul-2024	LT1	LT1
Fairwinds Sample Port - 3730 Fairwinds Dr.	10-Jul-2024	LT1	LT1
Madrona Sample Port - 1556 Arbutus Dr.	10-Jul-2024	LT1	LT1
West Bay Sample Port - 2315 Ida Lane	10-Jul-2024	LT1	LT1
Arbutus Sample Port - Florence Drive and Anchor Way	16-Jul-2024	LT1	LT1
Beachcomber Sample Port - 1270 Seadog Road	16-Jul-2024	LT1	LT1
Fairwinds Sample Port - 3500 Fairwind Dr.	16-Jul-2024	LT1	LT1
Fairwinds Sample Port - 3541 Shelby Ln.	16-Jul-2024	LT1	LT1
Madrona Sample Port - 1358 Madrona Drive	16-Jul-2024	LT1	LT1
Fairwinds Sample Port - 1996 Highland Rd.	23-Jul-2024	LT1	LT1
Fairwinds Sample Port - 3465 Cambridge Rd.	23-Jul-2024	LT1	LT1
Nanoose Sample Port - 3119 Swallow Cres.	23-Jul-2024	LT1	LT1
Arbutus Sample Port - 2329 Chain Way	7-Aug-2024	LT1	LT1
Beachcomber Sample Port - 1639 Marina Way	7-Aug-2024	LT1	LT1
Fairwinds Sample Port - 3541 Shelby Ln.	7-Aug-2024	LT1	LT1
Madrona Sample Port - 1565 Stone Lake Dr.	7-Aug-2024	LT1	LT1
Nanoose Sample Port - 3427 Tyee Cres.	7-Aug-2024	LT1	LT1

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Site Name	Date Collected	Total Coliform	Total E. Coli
West Bay Sample Port - 2454 Armstrong Cres.	7-Aug-2024	LT1	LT1
Arbutus Sample Port - 2339 Garry Oak Dr.	14-Aug-2024	LT1	LT1
Driftwood Sample Port - 2359 Higginson Rd	14-Aug-2024	LT1	LT1
Fairwinds Sample Port - 2400 Evanshire Cres.	14-Aug-2024	LT1	LT1
Fairwinds Sample Port - 3383 Redden Road	14-Aug-2024	LT1	LT1
Madrona Sample Port - 1556 Arbutus Dr.	14-Aug-2024	LT1	LT1
West Bay Sample Port - 2454 Armstrong Cres.	14-Aug-2024	LT1	LT1
Arbutus Sample Port - Florence Drive and Anchor Way	20-Aug-2024	LT1	LT1
Beachcomber Sample Port - 1270 Seadog Road	20-Aug-2024	LT1	LT1
Fairwinds Sample Port - 3500 Fairwind Dr.	20-Aug-2024	LT1	LT1
Fairwinds Sample Port - 3730 Fairwinds Dr.	20-Aug-2024	LT1	LT1
Madrona Sample Port - 1358 Madrona Drive	20-Aug-2024	LT1	LT1
Fairwinds Sample Port - 1996 Highland Rd.	26-Aug-2024	LT1	LT1
Nanoose Sample Port - 3119 Swallow Cres.	26-Aug-2024	LT1	LT1
Arbutus Sample Port - 2329 Chain Way	3-Sep-2024	LT1	LT1
Beachcomber Sample Port - 1639 Marina Way	3-Sep-2024	LT1	LT1
Fairwinds Sample Port - 3465 Cambridge Rd.	3-Sep-2024	LT1	LT1
Madrona Sample Port - 1565 Stone Lake Dr.	3-Sep-2024	LT1	LT1
Nanoose Sample Port - 3427 Tyee Cres.	3-Sep-2024	LT1	LT1
West Bay Sample Port - 2454 Armstrong Cres.	3-Sep-2024	LT1	LT1
Arbutus Sample Port - 2339 Garry Oak Dr.	9-Sep-2024	LT1	LT1
Driftwood Sample Port - 2359 Higginson Rd	9-Sep-2024	LT1	LT1
Fairwinds Sample Port - 2400 Evanshire Cres.	9-Sep-2024	LT1	LT1
Fairwinds Sample Port - 3383 Redden Road	9-Sep-2024	LT1	LT1
Madrona Sample Port - 1556 Arbutus Dr.	9-Sep-2024	LT1	LT1
West Bay Sample Port - 2315 Ida Lane	9-Sep-2024	LT1	LT1
Arbutus Sample Port - Florence Drive and Anchor Way	18-Sep-2024	LT1	LT1
Beachcomber Sample Port - 1270 Seadog Road	18-Sep-2024	LT1	LT1
Fairwinds Sample Port - 3500 Fairwind Dr.	18-Sep-2024	LT1	LT1
Fairwinds Sample Port - 3730 Fairwinds Dr.	18-Sep-2024	LT1	LT1
Madrona Sample Port - 1358 Madrona Drive	18-Sep-2024	LT1	LT1
Fairwinds Sample Port - 1996 Highland Rd.	25-Sep-2024	LT1	LT1
Fairwinds Sample Port - 3541 Shelby Ln.	25-Sep-2024	LT1	LT1
Nanoose Sample Port - 3119 Swallow Cres.	25-Sep-2024	LT1	LT1
Arbutus Sample Port - 2329 Chain Way	1-Oct-2024	LT1	LT1
Beachcomber Sample Port - 1639 Marina Way	1-Oct-2024	LT1	LT1
Fairwinds Sample Port - 3383 Redden Road	1-Oct-2024	LT1	LT1
Madrona # 8 RAW	1-Oct-2024	LT1	LT1

REGIONAL DISTRICT OF NANAIMO

Site Name	Date Collected	Total Coliform	Total E. Coli
Nanoose Sample Port - 3427 Tyee Cres.	1-Oct-2024	LT1	LT1
Arbutus Sample Port - 2339 Garry Oak Dr.	7-Oct-2024	LT1	LT1
Driftwood Sample Port - 2359 Higginson Rd	7-Oct-2024	LT1	LT1
Fairwinds Sample Port - 2400 Evanshire Cres.	7-Oct-2024	LT1	LT1
Fairwinds Sample Port - 3730 Fairwinds Dr.	7-Oct-2024	LT1	LT1
Madrona Sample Port - 1556 Arbutus Dr.	7-Oct-2024	LT1	LT1
West Bay Sample Port - 2315 Ida Lane	7-Oct-2024	LT1	LT1
Arbutus Sample Port - Florence Drive and Anchor Way	15-Oct-2024	LT1	LT1
Beachcomber Sample Port - 1270 Seadog Road	15-Oct-2024	LT1	LT1
Fairwinds Sample Port - 3500 Fairwind Dr.	15-Oct-2024	LT1	LT1
Fairwinds Sample Port - 1996 Highland Rd.	22-Oct-2024	LT1	LT1
Fairwinds Sample Port - 3465 Cambridge Rd.	22-Oct-2024	LT1	LT1
Nanoose Sample Port - 3119 Swallow Cres.	22-Oct-2024	LT1	LT1
Fairwinds Sample Port - 3541 Shelby Ln.	28-Oct-2024	LT1	LT1
Madrona Sample Port - 1565 Stone Lake Dr.	28-Oct-2024	LT1	LT1
West Bay Sample Port - 2454 Armstrong Cres.	28-Oct-2024	LT1	LT1
Arbutus Sample Port - 2329 Chain Way	6-Nov-2024	LT1	LT1
Beachcomber Sample Port - 1639 Marina Way	6-Nov-2024	LT1	LT1
Fairwinds Sample Port - 3383 Redden Road	6-Nov-2024	LT1	LT1
Madrona Sample Port - 1565 Stone Lake Dr.	6-Nov-2024	LT1	LT1
Nanoose Sample Port - 3427 Tyee Cres.	6-Nov-2024	LT1	LT1
West Bay Sample Port - 2315 Ida Lane	6-Nov-2024	LT1	LT1
Arbutus Sample Port - Florence Drive and Anchor Way	25-Nov-2024	LT1	LT1
Beachcomber Sample Port - 1270 Seadog Road	25-Nov-2024	LT1	LT1
Fairwinds Sample Port - 3465 Cambridge Rd.	25-Nov-2024	LT1	LT1
Fairwinds Sample Port - 3500 Fairwind Dr.	25-Nov-2024	LT1	LT1
Fairwinds Sample Port - 3541 Shelby Ln.	25-Nov-2024	LT1	LT1
Madrona Sample Port - 1358 Madrona Drive	25-Nov-2024	LT1	LT1
Nanoose Sample Port - 3119 Swallow Cres.	25-Nov-2024	LT1	LT1
Arbutus Sample Port - 2339 Garry Oak Dr.	26-Nov-2024	LT1	LT1
Driftwood Sample Port - 2359 Higginson Rd	26-Nov-2024	LT1	LT1
Fairwinds Sample Port - 1996 Highland Rd.	26-Nov-2024	LT1	LT1
Fairwinds Sample Port - 2400 Evanshire Cres.	26-Nov-2024	LT1	LT1
Fairwinds Sample Port - 3383 Redden Road	26-Nov-2024	LT1	LT1
Madrona Sample Port - 1556 Arbutus Dr.	26-Nov-2024	LT1	LT1
West Bay Sample Port - 2454 Armstrong Cres.	26-Nov-2024	LT1	LT1
Arbutus Sample Port - 2329 Chain Way	2-Dec-2024	LT1	LT1
Beachcomber Sample Port - 1639 Marina Way	2-Dec-2024	LT1	LT1

Site Name	Date Collected	Total Coliform	Total E. Coli
Fairwinds Sample Port - 2400 Evanshire Cres.	2-Dec-2024	LT1	LT1
Madrona Sample Port - 1565 Stone Lake Dr.	2-Dec-2024	LT1	LT1
Nanoose Sample Port - 3427 Tyee Cres.	2-Dec-2024	LT1	LT1
Arbutus Sample Port - 2339 Garry Oak Dr.	10-Dec-2024	LT1	LT1
Driftwood Sample Port - 2359 Higginson Rd	10-Dec-2024	LT1	LT1
Fairwinds Sample Port - 1996 Highland Rd.	10-Dec-2024	LT1	LT1
Fairwinds Sample Port - 3383 Redden Road	10-Dec-2024	LT1	LT1
Fairwinds Sample Port - 3465 Cambridge Rd.	10-Dec-2024	LT1	LT1
Madrona Sample Port - 1556 Arbutus Dr.	10-Dec-2024	LT1	LT1
Nanoose Sample Port - 3119 Swallow Cres.	10-Dec-2024	LT1	LT1
West Bay Sample Port - 2454 Armstrong Cres.	10-Dec-2024	LT1	LT1
Arbutus Sample Port - Florence Drive and Anchor Way	16-Dec-2024	LT1	LT1
Beachcomber Sample Port - 1270 Seadog Road	16-Dec-2024	LT1	LT1
Fairwinds Sample Port - 1996 Highland Rd.	16-Dec-2024	LT1	LT1
Fairwinds Sample Port - 2400 Evanshire Cres.	16-Dec-2024	LT1	LT1
Fairwinds Sample Port - 3500 Fairwind Dr.	16-Dec-2024	LT1	LT1
Madrona Sample Port - 1358 Madrona Drive	16-Dec-2024	LT1	LT1
West Bay Sample Port - 2315 Ida Lane	16-Dec-2024	LT1	LT1

Interpreting Sample Reports

At Island Health, the results of drinking water sampling are reported using the following coding system:

- LT1 Less than 1 (no detectable bacteria) - Meaning: No bacteria present
- OGO Overgrown - Meaning: Too many background bacteria to give an accurate count
- OGC Result indicates confluent bacteria growth preventing accurate coliform determination. Re sample for MPN testing.
- QRWRT – Sample exceeded 30 hours from time of collection, results may not be valid. No written report will be issued by Island Health, and only a qualitative result will be reported by telephone when test is completed.