NANOOSE BAY PENINSULA
Water Service Area
Annual Report
2009

Prepared by:

REGIONAL DISTRICT OF NANAIMO
Water Services Department

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1. Introduction

The following annual report describes the Nanoose Bay Peninsula (NBP) Water Service Area and summarizes the water quality and production data from 2009. This report also includes a summary of inquiries and complaints, completed and proposed maintenance activities, the Emergency Response Plan, and the Cross Connection Control Program.

This report is to be submitted to the Vancouver Island Health Authority by the Spring of 2010.

2. Nanoose Bay Peninsula Water System

The Nanoose Bay Peninsula Water System was established in 2005 by amalgamating the water service areas locally known as Madrona, Wall Beach, Driftwood, Nanoose (Beachcomber), Fairwinds, Arbutus Park, and West Bay. The Nanoose Peninsula Water System is now operated under a single permit. The previous service areas, if referred to, are noted as neighbourhoods within the NBP service area.

The water supply originates from 11 groundwater wells located in the area, and is supplemented seasonally (as required) with water from the Englishman River. The water supply is chlorinated and stored in several reservoirs throughout Nanoose Bay. A map of the Nanoose Bay Peninsula Water Service Area is provided in Appendix A for reference.

2.1 Groundwater Wells

Eleven groundwater production wells are located in Nanoose Bay for water supply. Nanoose Well #5 has not been used since 2002 when saltwater intrusion was encountered. This well is scheduled to be converted to a monitoring well in 2010.

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	Treated
Fairwinds #1	69.8 m	Yes	Treated
Fairwinds #2	75.3 m	Yes	Treated
Fairwinds #3	72.2 m	Yes	Treated
West Bay #3	75.6 m	Yes	Treated

2.2 Reservoirs

Seven service reservoirs are present in the Nanoose Bay Peninsula Water System as follows;

- Madrona (concrete) - 485 m3 (100,000 imperial gallons) capacity
- Beachcomber (steel) - 591 m³ (130,000 imperial gallons) capacity
- Eagle Heights (concrete) - 341 m³ (75,000 imperial gallons) capacity
- Dolphin (steel) - 455 m³ (100,000 imperial gallons) capacity

- Fairwinds Res #1 (concrete) - 701 m3 (154,000 imperial gallons) capacity
- Fairwinds Res #2 (concrete) - 701 m3 (154,000 imperial gallons) capacity
- Arbutus Park (concrete) - 568 m3 (125, 000 imperial gallons) capacity

2.3 Distribution System

The water distribution system in Nanoose Bay is summarized in the table below. Fire hydrants (271) 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 200mm or larger	 10.4 km 2.7 km	 13.5% 3.5%
PVC: 150mm or smaller 200mm or larger	 20.9 km 32.6 km	 27.1% 42.2%
Ductile Iron: 150mm or smaller 200mm or larger	 0.2 km 10.3 km	 0.3% 13.3%

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

3. Water Sampling and Testing Program

Water sampling and testing is carried out weekly in the distribution system. 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
Weekly (Health Dept.)	BC Centre for Disease Control	Total, Fecal coliforms
Monthly	RDN (in-house) Laboratory	Iron, Manganese
Annual Source Water Testing	North Island Labs	Complete potability testing of all raw well water
Annual System Water Testing	North Island Labs	Complete potability testing of distribution system

4. Water Quality - Source Water and Distribution System

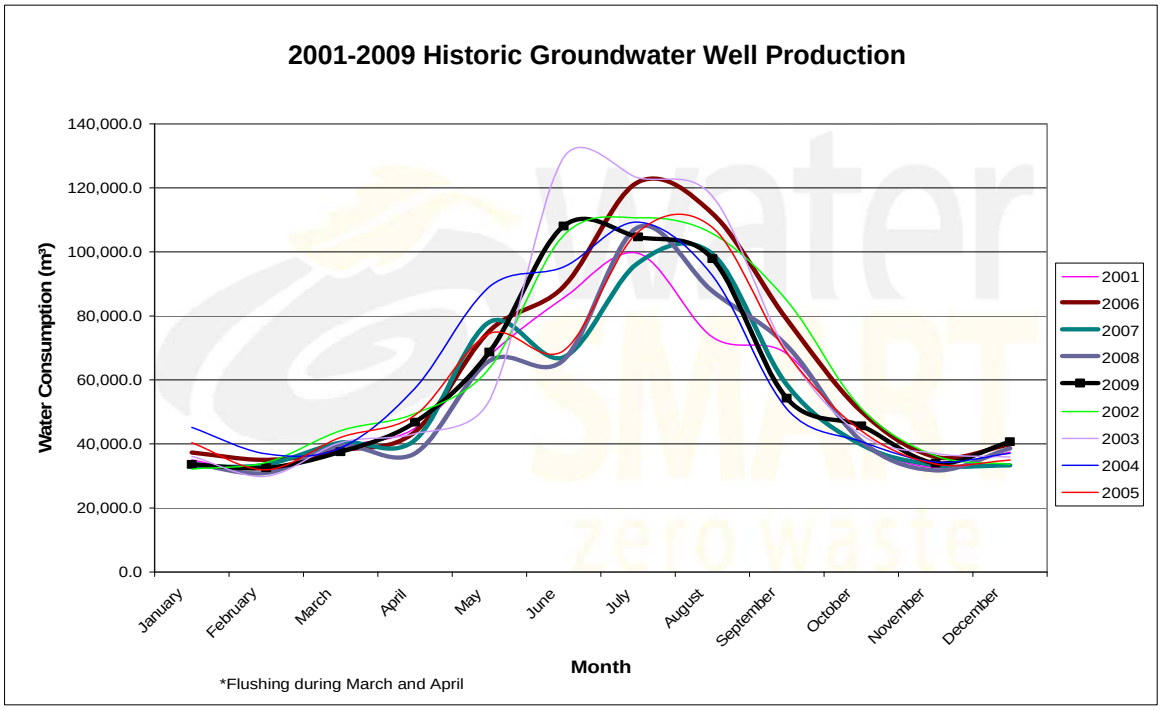
Up-to-date water quality reports and lab data are posted monthly on the RDN website at www.rdn.bc.ca in the WaterSmart section, under "Communities". Tables of water quality testing results for both the source water and distribution system are provided at the end of this report under Appendix B.

5. Water Quality Inquiries and Complaints

Numerous complaints and inquiries were received from the Nanoose Bay water service area, and were typically related to iron and manganese in the tap water (particularly the Fairwinds, West Bay, and Arbutus Park neighbourhoods).

6. Groundwater Production and Consumption

The monthly groundwater production in the Nanoose Bay Peninsula for the past 9 years is shown in the chart below. There are 1,926 water service connections in Nanoose Bay. Groundwater production in 2009 was average in comparison to previous years.



Consumption

In the Fall/Winter of 2009, the average usage per home in Nanoose Bay was 0.52 cubic metres per day (114 imperial gallons). In the summer, the average water usage was 1.4 cubic metres per day (310 imperial gallons). Based on these figures, the annual consumption per capita is estimated to be 352 L/day (based on 2.4 people/household). This consumption is 2% more than the RDN system average of 345 L/day/capita for 2009.

7. 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. In the Fairwinds neighbourhood the watermains are flushed a second time in the Fall. Fire hydrants are serviced once per year (either 'A-level' or 'B-level' maintenance). Water storage reservoirs are drained and cleaned once every two years.

Twenty-four hour on-call coverage is in place to respond to water system emergencies and alarms.

8. Water System Projects

8.1 2009 Completed Studies & Projects

- Completed annual B-service fire hydrant maintenance;
- Drained and cleaned both Fairwinds reservoirs;
- Installed stand-alone water sampling stations on Marina Way and Fairwinds Drive;
- Upgraded Nanoose Wells No. 2, 3, and 4 to pump water to the Fairwinds reservoirs (downhole camera inspection, acid treatment, new pumps, new VFDs, and new drop pipes);
- Completed watermain looping and PRV installation on Delanice Way;
- Acquired Wallbrook Well #1;
- Completed design drawings for the Wallbrook Pump Station (near Craig Bay);
- Installed a new peristaltic chlorine pump at Fairwinds Well #1;
- Installed new valve controls at Eagle Heights reservoir in Nanoose Bay;
- Installed a 20 HP booster pump at the Craig Bay Flow Control Station;
- Installed a new chlorine injection pump and circulation pump at the Beachcomber reservoir site;
- Installed a new reservoir hatch on the Arbutus reservoir in Nanoose Bay;
- Completed hydrogeological assessment of new RDN well on Claudet Road and submitted to VIHA for source approval;
- Completed pre-design work for iron & manganese treatment plant in Nanoose Bay;
- Completed keyless door entry installations at the Field Office and pumphouses;
- Carried out a comprehensive water conservation campaign (Team WaterSmart);
- Updated and improved the RDN website at www.rdn.bc.ca;
- Updated the Emergency Response Plan;
- Considered Scada options for implementation;
- Utilized the Auto E-message service to notify member residents of water service disruptions and upcoming maintenance activities;
- Developed a low-flush toilet incentive;
- Maintained excellent customer complaint and service request response times;
- Continued quality control through regular testing and monitoring of our water systems; and
- Completed additional educational programs.

8.2 2010 Proposed Projects & Upgrades

- Construction of Wallbrook Pumpstation (near Craig Bay) and installation of well-sequencing controls;
- Board Approval, final design, and construction of Nanoose Bay Peninsula Water Treatment Plant (for iron and manganese removal);
- Redevelop one groundwater well;
- Convert three unused production wells to monitoring wells;
- Complete the Cross-Connection Control bylaws, and establish a procedure for reviewing commercial and industrial properties for water system risks;
- Upgrade the Outrigger Road PRV;
- Install chlorine analyzers in Nanoose Bay;
- Complete the re-sealing at the Dolphin reservoir and replace the altitude valve;
- Continue level monitoring and water quality monitoring at the new RDN well on Claudet Road;
- Achieve VIHA source approval for the new RDN well on Claudet Road, and incorporate the well water into the Nanoose Bay Peninsula water supply;.

9. Emergency Response Plan

The Emergency Response Plan (ERP) was reviewed and updated in 2009. A copy of the ERP is attached in Appendix C.

10. Cross Connection Control

A formalized Cross Connection Control Program was initiated in 2007. Cross connection controls in-place include dual check valves at each service connection, fire hydrant use permits, and water supply bylaws noting discontinued service if a threat to the water supply is perceived by staff.

In 2008, a review and comparison of successful cross-connection control programs in other small water systems nearby was undertaken. A database of commercial customers was set-up in order to keep track of the maintenance history of testable backflow prevention assemblies at each site. Three RDN Operations staff achieved Backflow Prevention Tester's certification.

The program in 2010 will include:

- A survey of existing and potential cross-connections,
- An audit of RDN-owned facilities in each water service area,
- The preparation of a draft bylaw to allow enforcement of the Cross Connection Control Program.

11. Closing

An annual report for the year 2010 will be prepared and submitted to the Vancouver Island Health Authority in the Spring of 2011. Annual reports are also available on our website at www.rdn.bc.ca in the WaterSmart section, under "Communities".

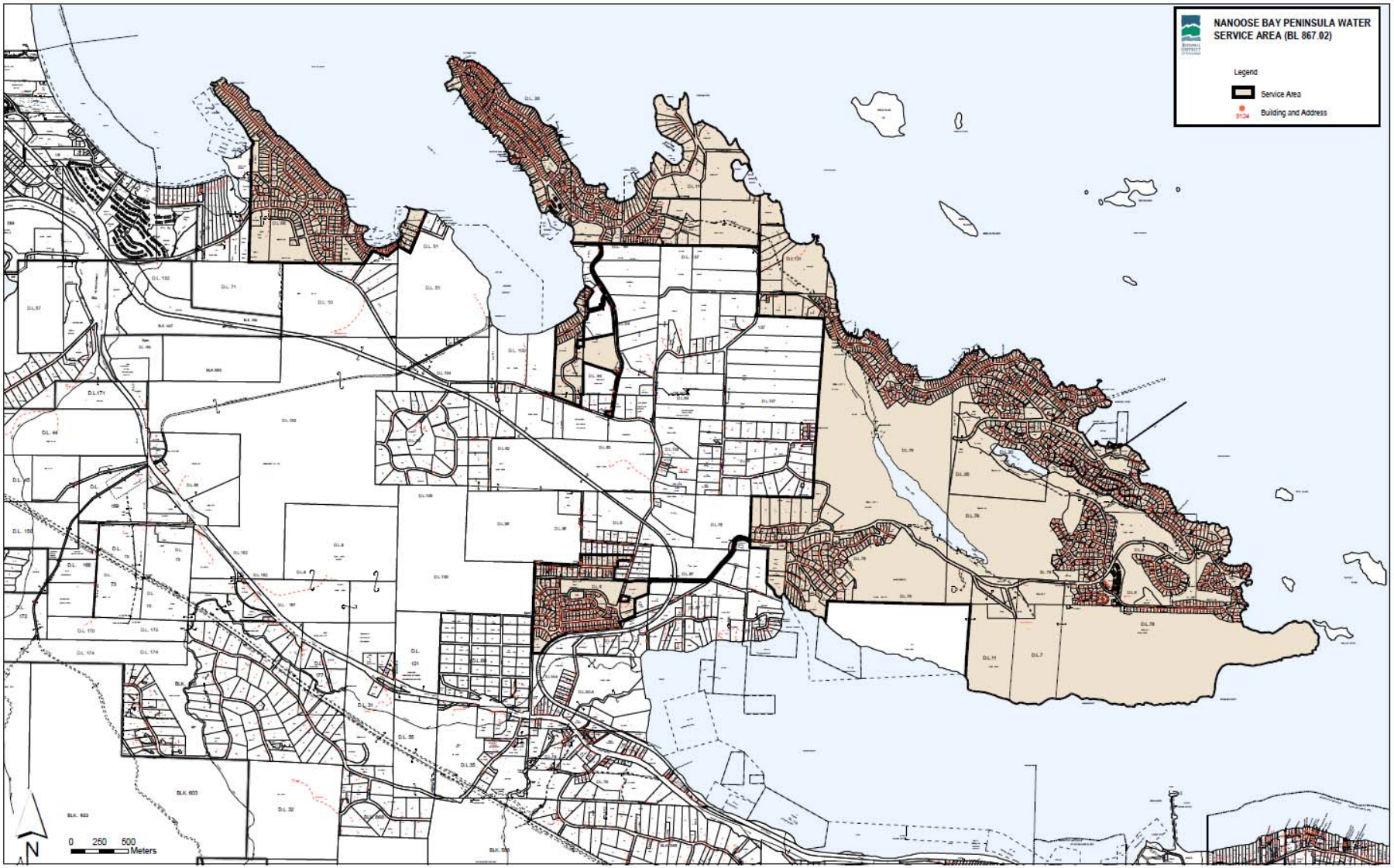
APPENIDX A

MAP OF NANOOSE BAY

WATER SERVICE AREA

NANOOSE BAY PENINSULA

WATER SERVICE AREA



APPENDIX B

WATER QUALITY TESTING RESULTS

Regional District of Nanaimo - Utilities Department

Arbutus Water Analysis - Monthly Report

Date Jan-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
06-Jan	2940 Fairwinds Dr	0	0	0	0	6	7.2	0.09	163	0.2	348	0.36	0.172
13-Jan	2832 Powder Pt	0	0	0	0	8	7	0.15	164	0.2	350		
19-Jan	2329 Chain Way	0	0	0	0	6	6.8	0.04	165	0.2	353		
27-Jan	2940 Fairwinds Dr			0	0	3	6.9	0.18	175	0.2	374		
	Average	0	0	0	0	5.8	7.0	0.12	166.8	0.2	356.3	0.36	0.172
	Maximum	0	0	0	0	8	7.2	0.18	175	0.2	374	0.36	0.172
	Minimum	0	0	0	0	3	6.8	0.04	163	0.2	348	0.36	0.172

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Arbutus Water Analysis - Monthly Report

Date Feb-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
03-Feb	2940 Fairwinds Dr	0	0	0	0	5	7.1	0.07	163	0.2	349	0.27	0.16
10-Feb	2832 Powder Pt	0	0	0	0	8	7.2	0.12	165	0.2	350		
17-Feb	2329 Chain Way	0	0	0	0	6	6.9	0.05	160	0.2	339		
24-Feb	2940 Fairwinds Dr					7	7.1	0.03	135	0.1	286		
	Average	0	0	0	0	6.5	7.1	0.07	155.8	0.2	331.0	0.27	0.16
	Maximum	0	0	0	0	8	7.2	0.12	165	0.2	350	0.27	0.16
	Minimum	0	0	0	0	5	6.9	0.03	135	0.1	286	0.27	0.16

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* Yellow Column Coliform tests are done by Health Department
Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Arbutus Water Analysis - Monthly Report

Date Mar-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
03-Mar	2832 Powder Pt	0	0	0	0	8	6.8	0.06	140	0.1	298	0.53	0.249
10-Mar	2940 Fairwinds Dr	0	0	0	0	2	6.8	0.05	139	0.1	296		
18-Mar	2329 Chain Way	0	0	0	0	6	7.1	0.04	149	0.1	316		
25-Mar	2940 Fairwinds Dr			0	0	7	6.9	0.03	144	0.1	304		
	Average	0	0	0	0	5.8	6.9	0.05	143.0	0.1	303.5	0.53	0.249
	Maximum	0	0	0	0	8	7.1	0.06	149	0.1	316	0.53	0.249
	Minimum	0	0	0	0	2	6.8	0.03	139	0.1	296	0.53	0.249

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Coliforms are measured in colony forming units (CFU) per 100 millilitres of water
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Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Arbutus Water Analysis - Monthly Report

Date Apr-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
15-Apr	2832 Powder Pt	0	0										
22-Apr	2940 Fairwinds Dr	0	0	0	0	11	7	0.12	160	0.2	336		
29-Apr	2329 Chain Way					11	7.2	0.06	156	0.2	327		
	Average	0	0	0	0	11.0	7.1	0.09	158.0	0.2	331.5	#DIV/0!	#DIV/0!
	Maximum	0	0	0	0	11	7.2	0.12	160	0.2	336	0	0
	Minimum	0	0	0	0	11	7	0.06	156	0.2	327	0	0

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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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Arbutus Water Analysis - Monthly Report

Date May-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
05-May	2940 Fairwinds Dr	0	0	0	0	11	7.2	0.05	155	0.2	328	0.44	0.239
12-May	2832 Powder Pt	0	0	0	0	10	6.9	0.16	173	0.2	362		
20-May	2329 Chain Way	0	0										
27-May	2940 Fairwinds Dr	0	0	0	0	14	6.7	0.06	101	0.1	213		
	Average	0	0	0	0	10.5	7.1	0.11	164.0	0.2	345.0	0.44	0.239
	Maximum	0	0	0	0	11	7.2	0.16	173	0.2	362	0.44	0.239
	Minimum	0	0	0	0	10	6.9	0.05	155	0.2	328	0.44	0.239

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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
Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Arbutus Water Analysis - Monthly Report

Date Jun-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
02-Jun	2832 Powder Pt	0	0	0	0	12	6.9	0.19	111	0.1	234	0.44	0.192
09-Jun	2329 Chain Way	OG	OG	0	0	14	6.7	0.07	109	0.1	229		
16-Jun	2329 Chain Way	OG	OG					0.02					
16-Jun	House (2329 Chain)	OG	OG										
23-Jun	2940 Arbutus	0	0					0.11					
23-Jun	2329 Chain Way	0	0					0.06					
	Average	0	0	0	0	13.0	6.8	0.09	110.0	0.1	231.5	0.44	0.192
	Maximum	0	0	0	0	14	6.9	0.19	111	0.1	234	0.44	0.192
	Minimum	0	0	0	0	12	6.7	0.02	109	0.1	229	0.44	0.192

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Coliforms are measured in colony forming units (CFU) per 100 millilitres of water
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Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Arbutus Water Analysis - Monthly Report

Date Jul-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
07-Jul	2940 Fairwinds Dr			0	0	16	6.6	0.07	111	0.1	233	0.32	0.123
15-Jul	2832 Powder Pt			0	0	14	7	0.19	147	0.1	310		
22-Jul	2329 Chain Way		OG										
29-Jul	2329 Chain Way		OG	0	0	15	6.8	0.04	146	0.1	308		
	Average	#DIV/0!	#DIV/0!	0	0	15.0	6.8	0.10	134.7	0.1	283.7	0.32	0.123
	Maximum	0	0	0	0	16	7	0.19	147	0.1	310	0.32	0.123
	Minimum	0	0	0	0	14	6.6	0.04	111	0.1	233	0.32	0.123

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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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Arbutus Water Analysis - Monthly Report

Date Aug-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
05-Aug	2329 Chain Way	0	0	0	0	16	6.6	0.18	169	0.2	355	0.56	0.255
12-Aug	2832 Powder Pt	0	0	0	0	13	6.8	0.13	171	0.2	359		
19-Aug	2490 Fairwinds Dr	0	0	0	0	18	6.9	0.08	153	0.1	321		
25-Aug	2329 Chain Way			0	0	14	6.9	0.04	148	0.1	311		
	Average	0	0	0	0	15.3	6.8	0.11	160.3	0.2	336.5	0.56	0.255
	Maximum	0	0	0	0	18	6.9	0.18	171	0.2	359	0.56	0.255
	Minimum	0	0	0	0	13	6.6	0.04	148	0.1	311	0.56	0.255

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Coliforms are measured in colony forming units (CFU) per 100 millilitres of water
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Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Arbutus Water Analysis - Monthly Report

Date Sep-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
01-Sep	2329 Chain Way	0	0					0.02					
09-Sep	2940 Fairwinds Dr	0	0			15	6.7	0.09	143	0.1	301	0.16	0.118
16-Sep	2832 Powder Pt	0	0	0	0	17	6.8	0.05	147	0.1	309		
22-Sep	2329 Chain Way			0	0	15	6.8	0.03	137	0.1	288		
29-Sep	2940 Fairwinds Dr			0	0	12	6.9	0.04	134	0.1	270		
	Average	0	0	0	0	14.8	6.8	0.05	140.3	0.1	292.0	0.16	0.118
	Maximum	0	0	0	0	17	6.9	0.09	147	0.1	309	0.16	0.118
	Minimum	0	0	0	0	12	6.7	0.02	134	0.1	270	0.16	0.118

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Coliforms are measured in colony forming units (CFU) per 100 millilitres of water
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Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Arbutus Water Analysis - Monthly Report

Date Oct-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
05-Oct	2329 Chain Way	0	0	0	0	13	6.7	0.08	164	0.2	342	0.39	
14-Oct	2940 Fairwinds Dr	0	0	0	0	10	6.7	0.09	147	0.1	310		0.208
20-Oct	2832 Powder Pt	0	0	0	0	12	6.8	0.03	140	0.1	294		
28-Oct	2940 Fairwinds Dr			0	0	13	6.9	0.06	149	0.1	314		
	Average	0	0	0	0	12.0	6.8	0.07	150.0	0.1	315.0	0.39	0.208
	Maximum	0	0	0	0	13	6.9	0.09	164	0.2	342	0.39	0.208
	Minimum	0	0	0	0	10	6.7	0.03	140	0.1	294	0.39	0.208

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Coliforms are measured in colony forming units (CFU) per 100 millilitres of water
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Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Arbutus Water Analysis - Monthly Report

Date Nov-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
04-Nov	2940 Fairwinds Dr	0	0	0	0	12	7	0.15	148	0.1	312	0.57	0.245
10-Nov	2832 Powder Pt	0	0	0	0	10	6.8	0.11	149	0.1	314		
17-Nov	2329 Chain Way	0	0	0	0	10	7.1	0.04	148	0.1	131		
24-Nov	2940 Fairwinds Dr			0	0	8	6.8	0.09	148	0.1	313		
	Average	0	0	0	0	10.0	6.9	0.10	148.3	0.1	267.5	0.57	0.245
	Maximum	0	0	0	0	12	7.1	0.15	149	0.1	314	0.57	0.245
	Minimum	0	0	0	0	8	6.8	0.04	148	0.1	131	0.57	0.245

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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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Arbutus Water Analysis - Monthly Report

Date Dec-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
02-Dec	2940 Fairwinds	0	0	0	0	7	7	0.07	138	0.1	294	0.3	0.172
08-Dec	2832 Powder Pt	0	0	0	0	7	7.2	0.12	140	0.1	299		
15-Dec	2329 Chain Way	0	0										
22-Dec	2832 Powder Pt			0	0	9	6.9	0.1	147	0.1	311		
30-Dec	2329 Chain Way			0	0	8	6.7	0.03	151	0.2	320		
	Average	0	0	0	0	7.8	7.0	0.08	144.0	0.1	306.0	0.30	0.172
	Maximum	0	0	0	0	9	7.2	0.12	151	0.2	320	0.3	0.172
	Minimum	0	0	0	0	7	6.7	0.03	138	0.1	294	0.3	0.172

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Fairwinds Water Analysis - Monthly Report

Date Jan-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ° C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
06-Jan	3500 Fairwinds Dr	0	0	0	0	7	7.2	0.66	171	0.2	365	0.72	0.311
13-Jan	3429 Redden Rd	0	0	0	0	6	7	0.09	173	0.2	368		
15-Jan	3500 Fairwinds Dr											0.84	0.337
15-Jan	3465 Cambridge Dr											1.52	0.599
15-Jan	3730 Fairwinds Dr											0.06	0.044
15-Jan	3429 Redden Rd											0.05	0.053
15-Jan	3541 Shelby Ln											0.14	0.098
19-Jan	3465 Cambridge Dr	0	0	0	0	6	6.8	0.58	172	0.2	368		
22-Jan	3500 Fairwinds Dr											0.93	0.376
22-Jan	3465 Cambridge Dr											0.4	0.171
22-Jan	3730 Fairwinds Dr											0.06	0.028
22-Jan	3429 Redden Rd											0.05	0.043
22-Jan	3541 Shelby Ln											0.07	0.037
27-Jan	3541 Shelby Ln	0	0	0	0	6	7	0.76	171	0.2	367		
28-Jan	3500 Fairwinds Dr											1.73	0.682
28-Jan	3465 Cambridge Dr											7.87	0.738
28-Jan	3730 Fairwinds Dr											0.05	0.027
28-Jan	3429 Redden Rd											0.13	0.077
28-Jan	3541 Shelby Ln											0.06	0.0049
	Average	0	0	0	0	6.3	7.0	0.52	171.8	0.2	367.0	0.92	0.2266
	Maximum	0	0	0	0	7	7.2	0.76	173	0.2	368	7.87	0.738
	Minimum	0	0	0	0	6	6.8	0.09	171	0.2	365	0.05	0.0049

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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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern

Regional District of Nanaimo - Utilities Department

Fairwinds Water Analysis - Monthly Report

Date Feb-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
03-Feb	3500 Fairwinds Dr	0	0	0	0	6	7.1	1.01	172	0.2	365	1.67	0.707
03-Feb	3465 Cambridge Rd											0.39	0.183
03-Feb	3730 Fairwinds Dr											0.03	0.026
03-Feb	3429 Redden Rd											0.07	0.056
03-Feb	3541 Shelby Ln											0.11	0.125
10-Feb	3429 Redden Rd	0	0	0	0	5	7.2	0.13	173	0.2	368	0.07	0.023
12-Feb	3500 Fairwinds Dr											1.07	0.421
12-Feb	3465 Cambridge Rd											0.77	0.348
12-Feb	3730 Fairwinds Dr											0.05	0.014
12-Feb	3541 Shelby Ln											0.07	0.033
17-Feb	3730 Fairwinds Dr	0	0	0	0	6	6.9	0.09	172	0.2	364	0.04	0.028
18-Feb	3500 Fairwinds Dr											0.64	0.22
18-Feb	3465 Cambridge Rd											1.64	0.558
18-Feb	3429 Redden Rd											0.13	0.09
18-Feb	3541 Shelby Ln											0.06	0.06
24-Feb	3465 Cambridge Rd	0	0	0	0	7	7.1	0.33	155	0.2	326	0.56	0.172
25-Feb	3500 Fairwinds Dr											0.51	0.172
25-Feb	3730 Fairwinds Dr											0.06	0.022
25-Feb	3429 Redden Rd											0.31	0.164
25-Feb	3541 Shelby Ln											0.69	0.266
	Average	0	0	0	0	6.0	7.1	0.39	168.0	0.2	355.8	0.45	0.1844
	Maximum	0	0	0	0	7	7.2	1.01	173	0.2	368	1.67	0.707
	Minimum	0	0	0	0	5	6.9	0.09	155	0.2	326	0.03	0.014

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Fairwinds Water Analysis - Monthly Report

Date Mar-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
03-Mar	3500 Fairwinds Dr	0	0	0	0	7	7.1	0.16	157	0.2	334	0.51	0.205
04-Mar	3465 Cambridge											0.4	0.188
04-Mar	3730 Fairwinds Dr											0.08	0.045
04-Mar	3429 Redden Rd											0.05	0.063
04-Mar	3541 Shelby Ln											0.64	0.309
10-Mar	3429 Redden Rd	0	0	0	0	6	7.2	0.08	159	0.2	343		
11-Mar	3500 Fairwinds Dr											1.51	0.557
11-Mar	3465 Cambridge											0.39	0.161
11-Mar	3730 Fairwinds Dr											0.04	0.017
11-Mar	3429 Redden Rd											0.22	0.136
11-Mar	3541 Shelby Ln											0.16	0.146
18-Mar	3730 Fairwinds Dr	0	0	0	0	7	7.1	0.13	160	0.2	340		
25-Mar	3541 Shelby Ln	0	0	0	0	7	7	0.15	158	0.2	335		
	Average	0	0	0	0	6.8	7.1	0.13	158.5	0.2	338.0	0.40	0.1827
	Maximum	0	0	0	0	7	7.2	0.16	160	0.2	343	1.51	0.557
	Minimum	0	0	0	0	6	7	0.08	157	0.2	334	0.04	0.017

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Coliforms are measured in colony forming units (CFU) per 100 millilitres of water
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Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Fairwinds Water Analysis - Monthly Report

Date Apr-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
15-Apr	3500 Fairwinds Dr	0	0										
22-Apr	3429 Redden Rd	0	0	0	0	11	7	0.09	172	0.2	364		
29-Apr	3465 Cambridge					11	7.2	0.24	170	0.2	357		
	Average	0	0	0	0	11.0	7.1	0.17	171.0	0.2	360.5	#DIV/0!	#DIV/0!
	Maximum	0	0	0	0	11	7.2	0.24	172	0.2	364	0	0
	Minimum	0	0	0	0	11	7	0.09	170	0.2	357	0	0

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Coliforms are measured in colony forming units (CFU) per 100 millilitres of water
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Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Fairwinds Water Analysis - Monthly Report

Date May-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
05-May	3500 Fairwinds Dr	0	0	0	0	11	7.2	0.19	166	0.2	351	0.46	0.162
12-May	3429 Redden Rd	0	0	0	0	12	7	0.16	167	0.2	350		
20-May	3465 Cambridge	0	0										
27-May	3541 Shelby Ln	0	0	0	0	14	6.7	0.22	115	0.1	243		
	Average	0	0	0	0	12.3	7.0	0.19	149.3	0.2	314.7	0.46	0.162
	Maximum	0	0	0	0	14	7.2	0.22	167	0.2	351	0.46	0.162
	Minimum	0	0	0	0	11	6.7	0.16	115	0.1	243	0.46	0.162

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Coliforms are measured in colony forming units (CFU) per 100 millilitres of water
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Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Fairwinds Water Analysis - Monthly Report

Date Jun-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
02-Jun	3500 Fairwinds Dr	0	0	0	0	13	6.9	0.38	118	0.1	249	0.37	0.16
09-Jun	3429 Redden Rd	0	0	0	0	16	6.7	0.12	117	0.1	247		
16-Jun	3465 Cambridge	0	0					0.11					
23-Jun	3541 Shelby Ln	0	0										
29-Jun	3730 Fairwinds Dr	0	0				6.8	0.27	124	0.1	262		
	Average	0	0	0	0	14.5	6.8	0.22	117.5	0.1	248.0	0.37	0.16
	Maximum	0	0	0	0	16	6.9	0.38	118	0.1	249	0.37	0.16
	Minimum	0	0	0	0	13	6.7	0.11	117	0.1	247	0.37	0.16

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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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Fairwinds Water Analysis - Monthly Report

Date Jul-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
07-Jul	3500 Fairwinds Dr	0	0	0	0	15	6.5	0.2	120	0.1	253	0.39	0.142
15-Jul	3541 Shelby Ln	0	0	0	0	16	6.9	0.57	132	0.1	278		
22-Jul	3429 Redden Rd	0	0										
29-Jul	3465 Cambridge	0	0	0	0	17	6.8	1.77	161	0.2	340		
	Average	0	0	0	0	16.0	6.7	0.85	137.7	0.1	290.3	0.39	0.142
	Maximum	0	0	0	0	17	6.9	1.77	161	0.2	340	0.39	0.142
	Minimum	0	0	0	0	15	6.5	0.2	120	0.1	253	0.39	0.142

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Coliforms are measured in colony forming units (CFU) per 100 millilitres of water
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Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Fairwinds Water Analysis - Monthly Report

Date Aug-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
05-Aug	3500 Fairwinds Dr	0	0	0	0	16	6.8	1.48	133	0.1	279	0.29	0.127
12-Aug	3429 Redden Road	0	0	0	0	20	6.9	1.21	148	0.1	310		
19-Aug	3465 Cambridge	0	0	0	0	18	7	0.52	147	0.1	310		
25-Aug	3541 Shelby Lane	0	0	0	0	16	6.8	0.14	160	0.2	334		
25-Aug	3730 Fairwinds	0	0					0.1					
	Average	0	0	0	0	17.5	6.9	0.69	147.0	0.1	308.3	0.29	0.127
	Maximum	0	0	0	0	20	7	1.48	160	0.2	334	0.29	0.127
	Minimum	0	0	0	0	16	6.8	0.1	133	0.1	279	0.29	0.127

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Fairwinds Water Analysis - Monthly Report

Date Sep-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
01-Sep	3500 Fairwinds	0	0					1.26					
09-Sep	3541 Shelby Ln	0	0			16	6.8	0.38	156	0.2	327	0.47	0.188
15-Sep	3429 Redden Road	0	0	0	0	18	6.7	0.79	151	0.1	318		
22-Sep	3730 Fairwinds	0	0	0	0	19	6.8	0.23	162	0.2	338		
29-Sep	3465 Cambridge	0	0	0	0	14	6.7	0.11	127	0.1	267		
	Average	0	0	0	0	16.8	6.8	0.55	149.0	0.2	312.5	0.47	0.188
	Maximum	0	0	0	0	19	6.8	1.26	162	0.2	338	0.47	0.188
	Minimum	0	0	0	0	14	6.7	0.11	127	0.1	267	0.47	0.188

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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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Fairwinds Water Analysis - Monthly Report

Date Oct-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
05-Oct	3500 Fairwinds Dr	0	0	0	0	13	7	1.5	140	0.1	294	0.39	
14-Oct	3429 Redden Rd	0	0	0	0	15	6.9	0.16	134	0.1	292		0.034
20-Oct	3730 Fairwinds Dr	0	0	0	0	16	6.6	0.04	169	0.2	358		
28-Oct	3541 Shelby Ln	0	0	0	0	12	6.8	0.09	155	0.2	326		
	Average	0	0	0	0	14.0	6.8	0.45	149.5	0.2	317.5	0.39	0.034
	Maximum	0	0	0	0	16	7	1.5	169	0.2	358	0.39	0.034
	Minimum	0	0	0	0	12	6.6	0.04	134	0.1	292	0.39	0.034

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Fairwinds Water Analysis - Monthly Report

Date Nov-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
04-Nov	3500 Fairwinds Dr	0	0	0	0	12	7.1	0.15	156	0.2	328	0.35	0.133
10-Nov	3429 Redden Rd	0	0	0	0	12	6.7	0.57	157	0.2	332		
17-Nov	3541 Shelby Ln	0	0	0	0	11	7.1	0.53	156	0.2	329		
24-Nov	3465 Cambridge	0	0	0	0	9	6.6	1.61	157	0.2	330		
	Average	0	0	0	0	11.0	6.9	0.72	156.5	0.2	329.8	0.35	0.133
	Maximum	0	0	0	0	12	7.1	1.61	157	0.2	332	0.35	0.133
	Minimum	0	0	0	0	9	6.6	0.15	156	0.2	328	0.35	0.133

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Coliforms are measured in colony forming units (CFU) per 100 millilitres of water
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Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Fairwinds Water Analysis - Monthly Report

Date Dec-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
02-Dec	3500 Fairwinds Dr	0	0	0	0	9	7.1	0.21	150	0.1	318	0.91	0.268
08-Dec	3429 Redden Rd	0	0	0	0	7	7.2	0.07	139	0.1	297		
15-Dec	3541 Shelby Lane	0	0										
22-Dec	3500 Fairwinds Dr			0	0	7	7	1.21	159	0.2	336		
30-Dec	3429 Redden Rd			0	0	9	6.8	1.2	161	0.2	341		
	Average	0	0	0	0	8.0	7.0	0.67	152.3	0.2	323.0	0.91	0.268
	Maximum	0	0	0	0	9	7.2	1.21	161	0.2	341	0.91	0.268
	Minimum	0	0	0	0	7	6.8	0.07	139	0.1	297	0.91	0.268

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Coliforms are measured in colony forming units (CFU) per 100 millilitres of water
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Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Madrona Water Analysis - Monthly Report

Date Jan-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
06-Jan	1819 NW Bay Rd	0	0	0	0	8	6.8	1.92	140	0.1	298	0.02	0.023
13-Jan	1358 Madrona Dr	0	0	0	0	7	7	0.08	157	0.2	334		
21-Jan	1566 Arbutus Dr	0	0	0	0	6	6.9	0.03	142	0.1	304		
27-Jan	1819 NW Bay Rd			0	0	7	7.1	0.07	141	0.1	301		
	Average	0	0	0	0	7.0	7.0	0.53	145.0	0.1	309.3	0.02	0.023
	Maximum	0	0	0	0	8	7.1	1.92	157	0.2	334	0.02	0.023
	Minimum	0	0	0	0	6	6.8	0.03	140	0.1	298	0.02	0.023

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Madrona Water Analysis - Monthly Report

Date Feb-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
03-Feb	1819 NW Bay Rd	0	0	0	0	8	6.9	0.97	150	0.2	320	0.01	0.006
10-Feb	1566 Arbutus Dr	0	0	0	0	6	7.2	0.04	161	0.2	345		
17-Feb	1358 Madrona Dr	0	0	0	0	7	6.9	0.03	158	0.2	336		
24-Feb	1819 NW Bay Rd			0	0	8	7.1	0.48	152	0.2	324		
	Average	0	0	0	0	7.3	7.0	0.38	155.3	0.2	331.3	0.01	0.006
	Maximum	0	0	0	0	8	7.2	0.97	161	0.2	345	0.01	0.006
	Minimum	0	0	0	0	6	6.9	0.03	150	0.2	320	0.01	0.006

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Madrona Water Analysis - Monthly Report

Date Mar-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
03-Mar	1819 NW Bay Rd	0	0	0	0	8	6.9	0.69	152	0.2	324	0.02	0.008
10-Mar	1358 Madrona Dr	0	0	0	0	6	7.5	0.04	142	0.1	307		
18-Mar	1566 Arbutus Dr	0	0	0	0	6	7.2	0.04	142	0.1	303		
25-Mar	1819 NW Bay Rd			0	0	8	7.3	0.04	151	0.2	320		
	Average	0	0	0	0	7.0	7.2	0.20	146.8	0.2	313.5	0.02	0.008
	Maximum	0	0	0	0	8	7.5	0.69	152	0.2	324	0.02	0.008
	Minimum	0	0	0	0	6	6.9	0.04	142	0.1	303	0.02	0.008

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Madrona Water Analysis - Monthly Report

Date Apr-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ° C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
15-Apr	1358 Madrona Dr	0	0										
22-Apr	1819 NW Bay Rd	0	0	0	0	9	7.2	0.05	149	0.1	315		
29-Apr	1566 Arbutus Dr					12	6.9	1.03	158	0.2	332		
	Average	0	0	0	0	10.5	7.1	0.54	153.5	0.2	323.5	#DIV/0!	#DIV/0!
	Maximum	0	0	0	0	12	7.2	1.03	158	0.2	332	0	0
	Minimum	0	0	0	0	9	6.9	0.05	149	0.1	315	0	0

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Madrona Water Analysis - Monthly Report

Date May-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
05-May	1819 NW Bay Rd	0	0	0	0	10	7.1	0.53	150	0.1	317	0.01	0.017
12-May	1566 Arbutus Dr	0	0	0	0	11	7	0.05	148	0.1	311		
20-May	1358 Madrona Dr	0	0										
27-May	1819 NW Bay Rd			0	0	11	7.2	0.12	150	0.1	314		
	Average	0	0	0	0	10.5	7.1	0.29	149.0	0.1	314.0	0.01	0.017
	Maximum	0	0	0	0	11	7.1	0.53	150	0.1	317	0.01	0.017
	Minimum	0	0	0	0	10	7	0.05	148	0.1	311	0.01	0.017

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Madrona Water Analysis - Monthly Report

Date Jun-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
02-Jun	1819 NW Bay Rd	0	0	0	0	14	7.2	0.38	151	0.1	316	0.02	0.014
09-Jun	1566 Arbutus Dr	0	0	0	0	15	6.6	0.34	33	0	70		
16-Jun	1358 Madrona Dr	0	0	0	0			0.05					
	Average	0	0	0	0	14.5	6.9	0.26	92.0	0.1	193.0	0.02	0.014
	Maximum	0	0	0	0	15	7.2	0.38	151	0.1	316	0.02	0.014
	Minimum	0	0	0	0	14	6.6	0.05	33	0	70	0.02	0.014

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Madrona Water Analysis - Monthly Report

Date Jul-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
07-Jul	1819 NW Bay Rd	0	0	0	0	17	6.9	0.03	148	0.1	311	0.01	0.014
15-Jul	1566 Arbutus Dr	0	0	0	0	16	6.9	0.02	64	0.1	134		
22-Jul	1358 Madrona Dr	0	0										
29-Jul	1819 NW Bay Rd			0	0	14	7	0.02	151	0.1	318		
	Average	0	0	0	0	15.7	6.9	0.02	121.0	0.1	254.3	0.01	0.014
	Maximum	0	0	0	0	17	7	0.03	151	0.1	318	0.01	0.014
	Minimum	0	0	0	0	14	6.9	0.02	64	0.1	134	0.01	0.014

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Madrona Water Analysis - Monthly Report

Date Aug-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
05-Aug	1819 NW Bay Rd	0	0	0	0	14	7.1	0.15	153	0.2	320	0.01	0.007
12-Aug	1566 Arbutus	0	0	0	0	19	6.6	0.02	65	0.1	138.1		
19-Aug	1358 Madrona Dr	0	0	0	0	18	6.7	0.06	96	0.1	203		
25-Aug	1819 NW Bay Rd			0	0	14	6.9	0.26	193	0.2	407		
	Average	0	0	0	0	16.3	6.8	0.12	126.8	0.2	267.0	0.01	0.007
	Maximum	0	0	0	0	19	7.1	0.26	193	0.2	407	0.01	0.007
	Minimum	0	0	0	0	14	6.6	0.02	65	0.1	138.1	0.01	0.007

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Madrona Water Analysis - Monthly Report

Date Sep-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
01-Sep	1819 NW Bay	0	0					0.01					
09-Sep	1566 Arbutus Dr	0	0			19	7.1	0.02	143	0.1	300	0.01	0.011
15-Sep	1358 Madrona	0	0	0	0	18	7	0.04	101	0.1	214		
22-Sep	1566 Arbutus Dr			0	0	16	7.1	0.06	91	0.1	192		
29-Sep	1819 NW Bay			0	0	12	6.8	0.03	168	0.2	359		
	Average	0	0	0	0	16.3	7.0	0.03	125.8	0.1	266.3	0.01	0.011
	Maximum	0	0	0	0	19	7.1	0.06	168	0.2	359	0.01	0.011
	Minimum	0	0	0	0	12	6.8	0.01	91	0.1	192	0.01	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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Madrona Water Analysis - Monthly Report

Date Oct-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
05-Oct	1819 NW Bay Rd	0	0	0	0	13	7.2	0.32	134	0.1	282	0	
14-Oct	1566 Arbutus Dr	0	0	0	0	13	7	0.17	99	0.1	208		0.018
20-Oct	1358 Madrona Dr	0	0	0	0	14	6.6	0.04	105	0.1	221		
28-Oct	1819 NW Bay Rd			0	0	12	7.4	0.62	155	0.2	328		
	Average	0	0	0	0	13.0	7.1	0.29	123.3	0.1	259.8	0.00	0.018
	Maximum	0	0	0	0	14	7.4	0.62	155	0.2	328	0	0.018
	Minimum	0	0	0	0	12	6.6	0.04	99	0.1	208	0	0.018

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Madrona Water Analysis - Monthly Report

Date Nov-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
04-Nov	1819 NW Bay Rd	0	0	0	0	12	7.2	0.15	152	0.2	320	0.02	0.008
10-Nov	1358 Madrona Dr	0	0	0	0	12	7	0.04	149	0.1	315		
17-Nov	1566 Arbutus Dr	0	0	0	0	10	7.2	0.56	148	0.1	131		
24-Nov	1819 NW Bay Rd			0	0	11	7.1	0.93	156	0.2	330		
	Average	0	0	0	0	11.3	7.1	0.42	151.3	0.2	274.0	0.02	0.008
	Maximum	0	0	0	0	12	7.2	0.93	156	0.2	330	0.02	0.008
	Minimum	0	0	0	0	10	7	0.04	148	0.1	131	0.02	0.008

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Madrona Water Analysis - Monthly Report

Date Dec-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
02-Dec	1819 NW Bay Rd	0	0	0	0	8	7.1	0.75	156	0.2	330	0	0.031
08-Dec	1566 Arbutus Dr	0	0	0	0	8	7.4	0.37	142	0.1	303		
15-Dec	1358 Madrona	0	0										
22-Dec	1819 NW Bay Rd			0	0	8	7.3	0.02	153	0.2	322		
30-Dec	1566 Arbutus Dr			0	0	9	6.8	1.1	151	0.2	320		
	Average	0	0	0	0	8.3	7.2	0.56	150.5	0.2	318.8	0.00	0.031
	Maximum	0	0	0	0	9	7.4	1.1	156	0.2	330	0	0.031
	Minimum	0	0	0	0	8	6.8	0.02	142	0.1	303	0	0.031

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Nanoose Water Analysis - Monthly Report

Date Jan-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
06-Jan	1900 Sea Otter	0	0	0	0	5	7	0.11	178	0.2	381	0.09	0.118
13-Jan	1270 Seadog	0	0	0	0	6	7.1	0.04	159	0.2	341		
19-Jan	1961 Harlequin	0	0	0	0	5	6.8	0.07	179	0.2	385		
27-Jan	1597 Haida Way	0	0	0	0	5	7.1	0.13	150	0.2	324		
	Average	0	0	0	0	5.3	7.0	0.09	166.5	0.2	357.8	0.09	0.118
	Maximum	0	0	0	0	6	7.1	0.13	179	0.2	385	0.09	0.118
	Minimum	0	0	0	0	5	6.8	0.04	150	0.2	324	0.09	0.118

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Nanoose Water Analysis - Monthly Report

Date Feb-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
03-Feb	1900 Sea Otter	0	0	0	0	5	7.2	0.05	169	0.2	359	0.18	0.031
10-Feb	1597 Haida Way	0	0	0	0	7	7.3	0.12	160	0.2	342		
17-Feb	1961 Harlequin	0	0	0	0	5	6.9	0.17	168	0.2	365		
24-Feb	1270 Seadog	0	0	0	0	6	6.8	0.07	155	0.2	326		
	Average	0	0	0	0	5.8	7.1	0.10	163.0	0.2	348.0	0.18	0.031
	Maximum	0	0	0	0	7	7.3	0.17	169	0.2	365	0.18	0.031
	Minimum	0	0	0	0	5	6.8	0.05	155	0.2	326	0.18	0.031

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Nanoose Water Analysis - Monthly Report

Date Mar-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
03-Mar	1900 Sea Otter	0	0	0	0	6	7	0.04	169	0.2	360	0.37	0.093
10-Mar	1961 Harlequin	0	0	0	0	6	7.2	0.08	173	0.2	370		
18-Mar	1597 Haida Way	0	0	0	0	7	7.2	0.08	154	0.2	328		
25-Mar	1270 Seadog Rd	0	0	0	0	7	7.2	0.11	155	0.2	329		
	Average	0	0	0	0	6.5	7.2	0.08	162.8	0.2	346.8	0.37	0.093
	Maximum	0	0	0	0	7	7.2	0.11	173	0.2	370	0.37	0.093
	Minimum	0	0	0	0	6	7	0.04	154	0.2	328	0.37	0.093

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Nanoose Water Analysis - Monthly Report

Date Apr-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
15-Apr	1900 Sea Otter	0	0										
22-Apr	1597 Haida Way	0	0	0	0	10	7	0.08	157	0.2	332		
29-Apr	1961 Harlequin					12	7.1	0.04	165	0.2	347		
	Average	0	0	0	0	11.0	7.1	0.06	161.0	0.2	339.5	#DIV/0!	#DIV/0!
	Maximum	0	0	0	0	12	7.1	0.08	165	0.2	347	0	0
	Minimum	0	0	0	0	10	7	0.04	157	0.2	332	0	0

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Nanoose Water Analysis - Monthly Report

Date May-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
05-May	1900 Sea Otter Pl	0	0	0	0	11	7.1	0.03	168	0.2	355	0.45	0.091
12-May	1597 Haida Way	0	0	0	0	11	6.9	0.11	159	0.2	334		
20-May	1961 Harlequin	0	0										
27-May	1270 Seadog	0	0	0	0	14	6.9	0.18	132	0.1	277		
	Average	0	0	0	0	12.0	7.0	0.11	153.0	0.2	322.0	0.45	0.091
	Maximum	0	0	0	0	14	7.1	0.18	168	0.2	355	0.45	0.091
	Minimum	0	0	0	0	11	6.9	0.03	132	0.1	277	0.45	0.091

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Nanoose Water Analysis - Monthly Report

Date Jun-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
02-Jun	1900 Sea Otter	0	0	0	0	14	7	0.04	131	0.1	274	0.25	0.071
09-Jun	1961 Harlequin	0	0	0	0	17	6.8	0.05	129	0.1	271		
16-Jun	1270 Sea Dog	0	0				6.8	0.05	127	0.1	266		
29-Jun	1597 Haida Way	0	0										
	Average	0	0	0	0	15.5	6.9	0.05	129.0	0.1	270.3	0.25	0.071
	Maximum	0	0	0	0	17	7	0.05	131	0.1	274	0.25	0.071
	Minimum	0	0	0	0	14	6.8	0.04	127	0.1	266	0.25	0.071

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Nanoose Water Analysis - Monthly Report

Date Jul-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
07-Jul	1900 Sea Otter	0	0	0	0	17	6.6	0.03	132	0.1	277	0.14	0.079
15-Jul	1961 Harlequin	0	0	0	0	19	6.8	0.04	120	0.1	251		
22-Jul	1597 Haida Way	0	0										
29-Jul	1270 Sea Dog	0	0	0	0	17	7.1	0.08	127	0.1	268		
	Average	0	0	0	0	17.7	6.8	0.05	126.3	0.1	265.3	0.14	0.079
	Maximum	0	0	0	0	19	7.1	0.08	132	0.1	277	0.14	0.079
	Minimum	0	0	0	0	17	6.6	0.03	120	0.1	251	0.14	0.079

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Nanoose Water Analysis - Monthly Report

Date Aug-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
05-Aug	1900 Sea Otter	0	6	0	0	18	6.7	0.04	133	0.1	279	0.1	0.046
12-Aug	1900 Sea Otter	0	BG	0	0	19	6.8	0.03	143	0.1	301		
19-Aug	1900 Sea Otter	0	BG	0	0	17		0.03					
19-Aug	1597 Haida Way	0	0	0	0	15	6.9	0.04	131	0.1	276		
25-Aug	1900 Sea Otter	0	BG	0	0			0.05					
25-Aug	1961 Harlequin	0	0	0	0	18	6.9	0.04	141	0.1	297		
25-Aug	1270 Sea Dog	0	0					0.07					
	Average	0	1.5	0	0	17.4	6.8	0.04	137.0	0.1	288.3	0.10	0.046
	Maximum	0	6	0	0	19	6.9	0.07	143	0.1	301	0.1	0.046
	Minimum	0	0	0	0	15	6.7	0.03	131	0.1	276	0.1	0.046

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Nanoose Water Analysis - Monthly Report

Date Sep-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
01-Sep	1270 Seadog	0	0					0.37					
01-Sep	1900 Sea Otter	OG	OG										
09-Sep	1900 Sea Otter	OG	OG			18	6.8	0.18	143	0.1	300	0.52	0.177
16-Sep	1900 Sea Otter	0	4	0	0	18	7	0.09	142	0.1	297		
22-Sep	1597 Haida Way	0	0	0	0	14	6.9	0.09	136	0.1	286		
22-Sep	1900 Sea Otter	0	0	2	0								
29-Sep	1961 Harlequin	0	0	0	0	16	7	0.09	138	0.1	289		
	Average	0	0.8	0.5	0	16.5	6.9	0.16	139.8	0.1	293.0	0.52	0.177
	Maximum	0	4	2	0	18	7	0.37	143	0.1	300	0.52	0.177
	Minimum	0	0	0	0	14	6.8	0.09	136	0.1	286	0.52	0.177

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Nanoose Water Analysis - Monthly Report

Date Oct-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
05-Oct	1270 Seadog Rd	0	0	0	0	14	6.8	0.17	126	0.1	266	0.37	
14-Oct	1900 Sea Otter	0	0	0	0	13	6.8	0.46	242	0.2	507		0.503
20-Oct	1597 Haida Way	0	0	0	0		6.6	0.02	168	0.2	351		
28-Oct	1961 Harlequin	0	0	0	0	12	7.3	0.03	161	0.2	339		
	Average	0	0	0	0	13.0	6.9	0.17	174.3	0.2	365.8	0.37	0.503
	Maximum	0	0	0	0	14	7.3	0.46	242	0.2	507	0.37	0.503
	Minimum	0	0	0	0	12	6.6	0.02	126	0.1	266	0.37	0.503

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Nanoose Water Analysis - Monthly Report

Date Nov-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
04-Nov	1900 Sea Otter Pl	0	0	0	0	11	6.9	0.11	176	0.2	371	0.11	0.052
10-Nov	1597 Haida Way	0	0	0	0	11	6.7	0.26	149	0.1	314		
17-Nov	1270 Seadog	0	0	0	0	9	7	1.11	157	0.2	334		
24-Nov	1961 Harlequin	0	0	0	0	10	7	0.5	157	0.2	331		
	Average	0	0	0	0	10.3	6.9	0.50	159.8	0.2	337.5	0.11	0.052
	Maximum	0	0	0	0	11	7	1.11	176	0.2	371	0.11	0.052
	Minimum	0	0	0	0	9	6.7	0.11	149	0.1	314	0.11	0.052

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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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Nanoose Water Analysis - Monthly Report

Date Dec-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
02-Dec	1900 Sea Otter Pl	0	0	0	0	9	7	0.09	177	0.2	375	0.09	0.039
08-Dec	1270 Seadog	0	0	0	0	6	7.2	0.04	144	0.1	308		
15-Dec	1961 Harlequin	0	0										
22-Dec	1270 Seadog			0	0	6	7	0.04	166	0.2	350		
30-Dec	1900 Sea Otter Pl			0	0	7	6.9	0.04	169	0.2	356		
	Average	0	0	0	0	7.0	7.0	0.05	164.0	0.2	347.3	0.09	0.039
	Maximum	0	0	0	0	9	7.2	0.09	177	0.2	375	0.09	0.039
	Minimum	0	0	0	0	6	6.9	0.04	144	0.1	308	0.09	0.039

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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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Westbay Water Analysis - Monthly Report

Date Jan-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
06-Jan	2315 Ida Ln	0	0	0	0	8	7.1	0.03	164	0.2	351	0.09	0.139
13-Jan	2450 Nanoose Rd			0	0	8	7	0.11	163	0.2	346		
20-Jan	2315 Ida Ln			0	0	7	6.9	0.03	164	0.2	353		
27-Jan	2450 Nanoose Rd			0	0	8	7	0.06	163	0.2	349		
	Average	0	0	0	0	7.8	7.0	0.06	163.5	0.2	349.8	0.09	0.139
	Maximum	0	0	0	0	8	7.1	0.11	164	0.2	353	0.09	0.139
	Minimum	0	0	0	0	7	6.9	0.03	163	0.2	346	0.09	0.139

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Westbay Water Analysis - Monthly Report

Date Feb-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
03-Feb	2315 Ida Ln	0	0	0	0	7	7.1	0.03	165	0.2	350	0.12	0.123
10-Feb	2450 Nanoose Rd			0	0	8	7.2	0.04	162	0.2	349		
17-Feb	2315 Ida Ln			0	0	7	7	0.05	141	0.1	300		
24-Feb	2450 Nanoose Rd			0	0	9	7	0.04	143	0.1	301		
	Average	0	0	0	0	7.8	7.1	0.04	152.8	0.2	325.0	0.12	0.123
	Maximum	0	0	0	0	9	7.2	0.05	165	0.2	350	0.12	0.123
	Minimum	0	0	0	0	7	7	0.03	141	0.1	300	0.12	0.123

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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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Westbay Water Analysis - Monthly Report

Date Mar-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
03-Mar	2315 Ida Ln	0	0	0	0	8	7.1	0.03	142	0.1	303	0.12	0.171
10-Mar	2450 Nanoose Rd			0	0	8	7.3	0.07	139	0.1	297		
18-Mar	2315 Ida Ln			0	0	8	7.2	0.05	139	0.1	296		
25-Mar	2450 Nanoose Rd			0	0	9	7.2	0.21	154	0.2	328		
	Average	0	0	0	0	8.3	7.2	0.09	143.5	0.1	306.0	0.12	0.171
	Maximum	0	0	0	0	9	7.3	0.21	154	0.2	328	0.12	0.171
	Minimum	0	0	0	0	8	7.1	0.03	139	0.1	296	0.12	0.171

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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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Westbay Water Analysis - Monthly Report

Date Apr-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
15-Apr	2315 Ida Ln	0	0										
22-Apr	2450 Nanoose	0	0	0	0	10	7	0.06	153	0.2	322		
29-Apr	2315 Ida Ln					11	7.2	0.05	154	0.2	324		
	Average	0	0	0	0	10.5	7.1	0.06	153.5	0.2	323.0	#DIV/0!	#DIV/0!
	Maximum	0	0	0	0	11	7.2	0.06	154	0.2	324	0	0
	Minimum	0	0	0	0	10	7	0.05	153	0.2	322	0	0

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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Westbay Water Analysis - Monthly Report

Date May-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
05-May	2315 Ida Ln	0	0	0	0	11	7.2	0.05	152	0.2	322	0.18	0.151
12-May	2450 Nanoose Rd			0	0	11	7	0.15	150	0.1	316		
27-May	2450 Nanoose Rd			0	0	13	6.5	0.05	32	0	68		
	Average	0	0	0	0	11.7	6.9	0.08	111.3	0.1	235.3	0.18	0.151
	Maximum	0	0	0	0	13	7.2	0.15	152	0.2	322	0.18	0.151
	Minimum	0	0	0	0	11	6.5	0.05	32	0	68	0.18	0.151

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Coliforms are measured in colony forming units (CFU) per 100 millilitres of water
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Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Westbay Water Analysis - Monthly Report

Date Jun-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
02-Jun	2315 Ida Ln	0	0	0	0	14	6.8	0.09	62	0.1	130	0.25	0.076
09-Jun	2450 Nanoose Rd			0	0	15	6.4	0.08	34	0	71		
	Average	0	0	0	0	14.5	6.6	0.09	48.0	0.1	100.5	0.25	0.076
	Maximum	0	0	0	0	15	6.8	0.09	62	0.1	130	0.25	0.076
	Minimum	0	0	0	0	14	6.4	0.08	34	0	71	0.25	0.076

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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

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Westbay Water Analysis - Monthly Report

Date Jul-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
07-Jul	2315 Ida Ln	0	0	0	0	16	6.5	0.02	57	0.1	121	0.09	0.045
15-Jul	2450 Nanoose Rd			0	0	15	6.9	0.22	146	0.1	306		
29-Jul	2315 Ida Ln			0	0	19	6.6	0.05	119	0.1	252		
	Average	0	0	0	0	16.7	6.7	0.10	107.3	0.1	226.3	0.09	0.045
	Maximum	0	0	0	0	19	6.9	0.22	146	0.1	306	0.09	0.045
	Minimum	0	0	0	0	15	6.5	0.02	57	0.1	121	0.09	0.045

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Coliforms are measured in colony forming units (CFU) per 100 millilitres of water
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Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Westbay Water Analysis - Monthly Report

Date Aug-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
05-Aug	2315 Ida Ln	0	0	0	0	19	6.7	0.04	89	0.1	188	0.08	0.069
12-Aug	2450 Nanoose Rd			0	0	15	6.8	0.11	154	0.2	325		
19-Aug	2315 Ida Ln			0	0	19	6.8	0.02	98	0.1	208		
25-Aug	2450 Nanoose Rd			0	0	16	6.9	0.07	126	0.1	263		
	Average	0	0	0	0	17.3	6.8	0.06	116.8	0.1	246.0	0.08	0.069
	Maximum	0	0	0	0	19	6.9	0.11	154	0.2	325	0.08	0.069
	Minimum	0	0	0	0	15	6.7	0.02	89	0.1	188	0.08	0.069

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Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

Regional District of Nanaimo - Utilities Department

Westbay Water Analysis - Monthly Report

Date Sep-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp °C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
01-Sep	2315 Ida Lane							0.02					
16-Sep	2450 Nanoose					16	6.8	0.05	79	0.1	167		
22-Sep	2315 Ida Lane			0	0	19	6.7	0.01	132	0.1	284		
29-Sep	2450 Nanoose			0	0	14	6.7	0.02	66	0.1	139.2		
	Average	#DIV/0!	#DIV/0!	0	0	16.3	6.7	0.03	92.3	0.1	196.7	#DIV/0!	#DIV/0!
	Maximum	0	0	0	0	19	6.8	0.05	132	0.1	284	0	0
	Minimum	0	0	0	0	14	6.7	0.01	66	0.1	139.2	0	0

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

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Regional District of Nanaimo - Utilities Department

Westbay Water Analysis - Monthly Report

Date Oct-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
05-Oct	2315 Ida Ln			0	0	17	6.8	0.02	141	0.1	296	0.03	
14-Oct	2450 Nanoose Rd			0	0	13	6.7	0.07	93	0.1	197		0.095
20-Oct	2315 Ida Ln			0	0	14	6.8	0.05	116	0.1	243		
28-Oct	2450 Nanoose Rd			0	0	14	7.3	0.02	147	0.1	310		
	Average	#DIV/0!	#DIV/0!	0	0	14.5	6.9	0.04	124.3	0.1	261.5	0.03	0.095
	Maximum	0	0	0	0	17	7.3	0.07	147	0.1	310	0.03	0.095
	Minimum	0	0	0	0	13	6.7	0.02	93	0.1	197	0.03	0.095

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Regional District of Nanaimo - Utilities Department

Westbay Water Analysis - Monthly Report

Date Nov-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
04-Nov	2315 Ida Ln	0	0	0	0	13	7.2	0.02	153	0.2	322	0.05	0.095
10-Nov	2450 Nanoose Rd			0	0	11	6.7	0.09	148	0.1	314		
17-Nov	2315 Ida Ln			0	0	11	7.2	0.06	151	0.1	319		
24-Nov	2450 Nanoose Rd			0	0	10	7	0.08	148	0.1	313		
	Average	0	0	0	0	11.3	7.0	0.06	150.0	0.1	317.0	0.05	0.095
	Maximum	0	0	0	0	13	7.2	0.09	153	0.2	322	0.05	0.095
	Minimum	0	0	0	0	10	6.7	0.02	148	0.1	313	0.05	0.095

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Regional District of Nanaimo - Utilities Department

Westbay Water Analysis - Monthly Report

Date Dec-09	Sample Location (Address)	Fecal Coli * Health Dep	Total Coli * Health Dep	Total Coli RDN	E Coli RDN	Temp ^{o} C	pH	Cl_2 ppm	TDS ppm	Sal %	Cond uS/cm	Fe ppm	Mn ppm
02-Dec	2315 Ida Ln	0	0	0	0	10	7.1	0.07	152	0.2	322	0.09	0.12
08-Dec	2450 Nanoose Rd			0	0	7	7.2	0.04	143	0.1	304		
22-Dec	2315 Ida Ln			0	0	9	6.8	0.03	149	0.1	315		
30-Dec	2450 Nanoose Rd			0	0	9	6.9	0.1	148	0.1	314		
	Average	0	0	0	0	8.8	7.0	0.06	148.0	0.1	313.8	0.09	0.12
	Maximum	0	0	0	0	10	7.2	0.1	152	0.2	322	0.09	0.12
	Minimum	0	0	0	0	7	6.8	0.03	143	0.1	304	0.09	0.12

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Green tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.

REGIONAL DISTRICT OF NANAIMO

Arbutus Distribution Water Analysis Results

Location: 2329 Chain Way

Canadian Drinking Water Guidelines Package

MAC=Maximum Acceptable Concentration IMAC=Interim Maximum Acceptable Concentration AO=Aesthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG - British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines

water SMART zero waste

Parameters	Water Quality Guidelines				1999	2000	28-Jun 2001	2002	2003	2004	20-Apr 2005	17-May 2006	22-May 2007	27-May 2008	13-May 2009	2010
	Units	CDWG	BCAWQG													
Color	CU	15	</=15	AO			**23**			13	7	**37**	13	15	**25**	
Conductivity	uS		700	MAC			351			381	377	379	348	365	354	
TDS	mg/L	500	</=500	AO			187			220	210	220	202	238	242	
Hardness (CaCO3)	mg/L	80-100	</=500	AO			**108.3**			**110**	**120**	**110**	**120**	**110**	**120**	
pH	pH units	6.5-8.5	6.5-8.5	AO			7.53			7.7	7.6	7.7	7.6	7.8	7.7	
Turbidity	NTU's	5	1	MAC			0.37			0.8	<0.5	0.9	<0.5	<0.5	0.7	
Alkalinity	mg/L						137			140	150	150	51	140	140	
Chloride	mg/L	250	</=250	AO			20.5			23.4	2.8	27.9	19.4	22.9	22.9	
Fluoride	mg/L	1.5	1.5	MAC			0.17			<1.0	<1.0	0.2	<1.0	<1.0	<1.0	
Sulfate	mg/L	500	</=500	AO			1.27			9.4	<2	2.6	2.8	3.3	4	
Nitrate	mg/L	10	10	MAC			0.041			<0.1	<0.1	0.06	<0.1	<0.1	<1.0	
Nitrite	mg/L	1					<0.002			<0.1	<0.1	<0.01	<0.1	<0.1	<1.0	
T-Aluminum	mg/L		0.2	MAC			0.015			<0.005	<0.005	<0.005	<0.005	<0.05	0.005	
T-Antimony	mg/L		0.006	MAC			0.007			<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	
T-Arsenic	mg/L	0.025	0.025	IMAC			<0.01			0.0019	0.0021	0.0014	0.001	<0.001	0.002	
T-Barium	mg/L	1.0	1	MAC			0.0087			0.006	0.006	0.009	0.008	0.005	0.007	
T-Boron	mg/L	5.0	5	MAC			0.073			0.084	0.07	0.072	0.079	0.06	0.072	
T-Cadmium	mg/L	0.005					<0.0006			<0.0001	<0.00001	<0.00001	<0.00001	<0.0003	<0.00001	
T-Calcium	mg/L						27			27.4	28.5	27.8	29.8	26	31.2	
T-Chromium	mg/L	0.05	0.05	MAC			<0.0009			<0.0005	<0.0005	<0.0005	<0.0005	<0.003	<0.0004	
T-Copper	mg/L	1.0	</=1	MAC			0.003			0.002	<0.001	0.002	0.002	<0.005	0.001	
T-Iron	mg/L	0.3	</=0.3	AO			**0.878**			**0.4**	0.2	**0.5**	**0.6**	**0.35**	**0.36**	
T-Lead	mg/L	0.01	0.01	MAC			0.003			0.0003	0.0003	0.0001	0.0001	<0.0005	0.0001	
T-Lithium	mg/L														<0.001	
T-Magnesium	mg/L		</=700	AO			9.93			10.2	10.8	9.7	11	9.7	11	
T-Manganese	mg/L	0.05	</=0.05	AO			**0.282**			**0.184**	**0.18**	**0.209**	**0.257**	**0.201**	**0.245**	
T-Mercury	mg/L	0.001	0.001	MAC			<0.0001			<0.0002	<0.0002	<0.0001	<0.0001	<0.01	<0.01	
T-Nickel	mg/L														<0.001	
T-Phosphorus	mg/L														0.75	
T-Potassium	mg/L						2.3			2.6	3	2.7	2.6	2.4	<0.0006	
T-Selium	mg/L	0.01	0.01	MAC			0.009			<0.0002	<0.0002	<0.0002	<0.0002	<0.003	<0.00001	
T-Sodium	mg/L	200	</=200	AO			29.3			35	35	34.4	31.7	32.4	31.2	
T-Uranium	mg/L	0.1	0.1	MAC			<0.06			<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.0004	
T-Zinc	mg/L	5	<5	AO			0.0047			0.008	0.006	0.006	0.01	<0.005	0.007	
Total Coliform	cfu/100ml	<1	<1	cfu/100ml			<1			<1	<1	<1	<1	<1	<1.0	
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml			<1			<1	<1	<1	<1			
E.coli	cfu/100ml	<1	<1	cfu/100ml								<1	<1	<1	<1.0	
Tannins & Lignins										n/a	n/a	n/a				
Trihalomethanes	mg/l	0.1		MAC						n/a	n/a	0.026				

REGIONAL DISTRICT OF NANAIMO

Fairwinds Distribution Water Analysis Results

Location: 3500 Fairwinds Drive

Canadian Drinking Water Guidelines Package
*2001 Sample Collected at 3541 Shelby Lane

water SMART zero waste

MAC=Maximum Acceptable Concentration IMAC=Interim Maximum Acceptable Concentration AO=Aesthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines

Parameters	Water Quality Guidelines				1999	14-Apr 2000	28-Jun 2001*	06-Mar 2002	23-Apr 2003	2004	20-Apr 2005	17-May 2006	22-May 2007	27-May 2008	13-May 2009	2010
	Units	CDWG	BCAWQG													
Color	CU	15	</=15	AO		15	12	13	10	**24**	**20**	**28**	**19**	**24**	**55**	
Conductivity	uS		700	MAC		291	352	327	355	376	380	386	352	380	394	
TDS	mg/L	500	</=500	AO		211	193	193	187	210	200	260	200	250	258	
Hardness (CaCO3)	mg/L	80-100	</=500	AO		88	**109.8**	**108**	**110.4**	**110**	**110**	**110**	**120**	100	120	
pH	pH units	6.5-8.5	6.5-8.5	AO		7.35	7.63	7.53	7.58	7.8	7.7	7.7	7.4	7.86	7.8	
Turbidity	NTU's	5	1	MAC		1.1	0.15	0.4	0.38	0.9	1	0.9	<0.5	1.2	1.5	
Alkalinity	mg/L					151	138	138	142	140	150	150	150	140	140	
Chloride	mg/L	250	</=250	AO		12.5	21.9	21.52	17.16	25.6	27.9	29.4	20.6	28.7	35.6	
Fluoride	mg/L	1.5	1.5	MAC		0.12	0.17	0.19	0.12	<1.0	<1.0	0.2	<1.0	<1.0	<1.0	
Sulfate	mg/L	500	</=500	AO		0.5	1.26	0.91	1.36	16.8	<2	2.6	2.9	3.4	4.5	
Nitrate	mg/L	10	10	MAC		0.33	0.053	0.03	0.17	<0.1	<0.1	0.02	<0.1	<0.1	0.1	
Nitrite	mg/L	1				0.068	0.309	0.03	<0.01	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	
T-Aluminum	mg/L		0.2	MAC			0.015	<.009	0.006	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	
T-Antimony	mg/L		0.006	MAC			<.006	<.006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	
T-Arsenic	mg/L	0.025	0.025	IMAC		0.001	<.01	<.01	0.0009	0.0015	0.001	0.0014	0.0009	<0.001	0.0013	
T-Barium	mg/L	1.0	1	MAC		0.005	0.0049	0.0079	0.006	0.007	0.007	0.007	0.007	0.006	0.007	
T-Boron	mg/L	5.0	5	MAC		0.1	0.071	0.074	0.081	0.085	0.07	0.07	0.075	0.06	0.071	
T-Cadmium	mg/L	0.005					<.0006	<.0006	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0003	<0.00001	
T-Calcium	mg/L						27.3	27.4	26.9	28.1	28.1	26.9	29.5	25	31.2	
T-Chromium	mg/L	0.05	0.05	MAC			<.009	<.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.003	<0.0004	
T-Copper	mg/L	1.0	</=1	MAC			0.002	0.003	0.005	0.006	0.006	0.004	0.003	<0.005	0.002	
T-Iron	mg/L	0.3	</=0.3	AO		0.170	0.107	**0.686**	**0.300**	**0.500**	**0.500**	**0.500**	**0.600**	**0.510**	**0.470**	
T-Lead	mg/L	0.01	0.01	MAC			<0.002	0.003	0.0004	0.0003	0.0005	0.0001	0.0001	<0.0005	0.0001	
T-Lithium	mg/L														<0.001	
T-Magnesium	mg/L		</=700	AO		9.24	10.1	9.61	10.5	10.4	10.6	9.5	10.8	9.5	10.9	
T-Manganese	mg/L	0.05	</=0.05	AO		**0.1100**	**0.0796**	**0.2590**	**0.1010**	**0.1860**	**0.1900**	**0.1820**	**0.2240**	**0.2200**	**0.2280**	
T-Mercury	mg/L	0.001	0.001	MAC			<.0001	<.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.01	<0.01	
T-Nickel	mg/L														<0.001	
T-Phosphorus	mg/L														0.776	
T-Potassium	mg/L						2.4	2.6	2.5	2.6	2	2.6	2.5	2.4	2.7	
T-Selium	mg/L	0.01	0.01	MAC			0.013	<.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.003	<0.0006	
T-Silver	mg/L														<0.00001	
T-Sodium	mg/L	200	</=200	AO			29.8	31	28.6	36	36	34.8	31.6	35	40.7	
T-Uranium	mg/L	0.1	0.1	MAC			<.06	<.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.0004	
T-Zinc	mg/L	5	<5	AO		0.009	0.0037	0.0046	0.007	0.007	0.006	0.006	0.01	0.007	0.006	
Total Coliform	cfu/100ml	<1	<1	cfu/100ml		<1	<1	n/a	n/a	<1	<1	<1	<1	<1.0	<1.0	
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml		<1	<1	n/a	n/a	<1	<1	<1	<1			
E.coli	cfu/100ml	<1	<1	cfu/100ml								<1	<1	<1.0	<1.0	
Tannins & Lignins						n/a	n/a	0.15	n/a	n/a	n/a	n/a				
Trihalomethanes	mg/l	0.1		MAC		n/a	n/a	n/a	n/a	n/a	n/a	0.044				

Madrona Distribution Water Analysis Results

Location: 1566 Arbutus Drive

Canadian Drinking Water Guidelines Package
* Bulk water online
** 2001 Sample collected at 1358 Madrona Drive

MAC=Maximum Acceptable Concentration IMAC=Interim Maximum Acceptable Concentration AO=Aesthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines

Parameters	Water Quality Guidelines				1999	2000	28-Jun 2001**	06-Mar 2002	2003	2004	20-Apr 2005	17-May 2006*	22-May 2007*	27-May 2008	13-May 2009	2010
	Units	CDWG	BCAWQG													
Color	CU	15	</=15	AO		7	4	4	9	16	6	7	11	6	<5	
Conductivity	uS		700	MAC		300	321	324	320	357	356	55.6	62.5	339	338	
TDS	mg/L	500	</=500	AO		191	180	173	173	233	230	53	38	214	226	
Hardness (CaCO3)	mg/L	80-100	</=500	AO		77	124.4	29.5	37.3	51	62	21	27	110	130	
pH	pH units	6.5-8.5	6.5-8.5	AO		8.02	7.92	8.35	8.28	8.1	7.9	6.3	6.8	7.76	8.1	
Turbidity	NTU's	5	1	MAC		0.11	<.05	0.52	0.07	0.5	<0.5	0.6	<0.5	<0.5	<0.5	
Alkalinity	mg/L					141	131	132	136	140	140	19	21	140	140	
Chloride	mg/L	250	</=250	AO		14.8	15.5	27.82	24.7	23.3	22.9	4.2	4.4	16.7	14.5	
Fluoride	mg/L	1.5	1.5	MAC		0.07	0.09	0.16	0.1	<1.0	<1.0	<0.1	<1.0	<1.0	<1.0	
Sulfate	mg/L	500	</=500	AO		5.9	12.4	2.52	3.33	10.5	2.6	1.3	<2.0	6.6	8	
Nitrate	mg/L	10	10	MAC		0.18	<.004	<.002	0.19	0.2	<0.1	0.03	<0.1	0.7	0.9	
Nitrite	mg/L	1				<.002	<.002	<.006	<0.01	<0.1	<0.1	<0.01	<0.1	<0.1	<0.1	
T-Aluminum	mg/L		0.2	MAC		0.083	0.043	0.046	0.006	0.007	0.008	0.024	0.03	<0.05	<0.005	
T-Antimony	mg/L		0.006	MAC			<.006	<.006	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002	
T-Arsenic	mg/L	0.025	0.025	IMAC		0.005	<.01	0.01	0.0093	0.0093	0.0069	0.0002	<0.0002	0.005	0.0044	
T-Barium	mg/L	1.0	1	MAC		0.012	0.014	0.0099	0.008	0.012	0.008	0.005	0.005	0.007	0.008	
T-Boron	mg/L	5.0	5	MAC		0.09	0.047	0.187	0.175	0.167	0.13	0.006	0.008	0.05	0.078	
T-Cadmium	mg/L	0.005				<.0002	<.0006	<.0006	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0003	<0.00001	
T-Calcium	mg/L					20.1	32.5	8.1	10	13.6	16	6.7	8.1	27.8	34.9	
T-Chromium	mg/L	0.05	0.05	MAC		<.001	<.0009	<.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.003	0.0004	
T-Copper	mg/L	1.0	</=1	MAC		0.008	0.001	0.004	0.007	0.082	0.004	0.013	0.01	<0.005	0.008	
T-Iron	mg/L	0.3	</=0.3	AO		<.05	0.032	0.066	<0.1	0.7	0.1	<0.1	<0.1	0.12	<0.01	
T-Lead	mg/L	0.01	0.01	MAC		<.001	<.002	<.002	0.0003	0.0049	0.0003	0.0002	0.0003	<0.0005	0.0003	
T-Lithium	mg/L														0.001	
T-Magnesium	mg/L		</=700	AO		7.23	10.5	2.26	3	4.2	5.4	1	1.6	8.8	9.36	
T-Manganese	mg/L	0.05	</=0.05	AO		0.038	0.0964	0.0154	0.017	0.101	0.055	0.006	<0.005	0.0788	0.0031	
T-Mercury	mg/L	0.001	0.001	MAC		<.05	<.0001	<.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.01	<0.01	
T-Nickel	mg/L														<0.001	
T-Phosphorus	mg/L														0.122	
T-Potassium	mg/L					1.21	1.1	1.7	1.7	1.8	2	<0.4	<0.4	1.5	1.2	
T-Selium	mg/L	0.01	0.01	MAC		<.002	0.005	<.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.003	<0.0006	
T-Silver	mg/L														<0.00001	
T-Sodium	mg/L	200	</=200	AO		33.3	11.5	66.9	61.5	59.8	53.3	2.3	2.5	26.5	28.8	
T-Uranium	mg/L	0.1	0.1	MAC		<.0005	<.06	<.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.0004	
T-Zinc	mg/L	5	<5	AO		<.005	0.0018	0.0053	0.002	0.006	0.007	0.006	0.015	<0.005	0.008	
Total Coliform	cfu/100ml	<1	<1	cfu/100ml		<2	<1	n/a	n/a	<1	<1	<1	12	<1.0	<1.0	
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml		<2	<1	n/a	n/a	<1	<1	<1	<1			
E.coli	cfu/100ml	<1	<1	cfu/100ml								<1	<1	<1.0	<1.0	
Tannins & Lignins						n/a	n/a	0.2	n/a	n/a	n/a	n/a				
Trihalomethanes	mg/l	0.1		MAC		n/a	n/a	n/a	n/a	n/a	n/a	0.032				

Note: Total coliforms can be an indicator of adverse water quality if the result in the re-sample is confirmed positive. (United States Environmental Protection Agency (EPA), 2008). RDN water samples are always tested for Fecal coliform bacteria at the same time as Total coliforms to rule out the presence of harmful pathogens.

* Re-sampled and had <1 for all Coliforms

REGIONAL DISTRICT OF NANAIMO

Nanoose Distribution Water Analysis Results

Location: 1961 Harlequin Crescent

Canadian Drinking Water Guidelines Package

* 2001 sample collected at 1270 Seadog

water SMART zero waste

MAC=Maximum Acceptable Concentration IMAC=Interim Maximum Acceptable Concentration AO=Aesthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines

Parameters	Water Quality Guidelines				28-Jun				20-Apr	17-May	22-May	27-May	13-May			
	Units	CDWG	BCAWQG		2001*	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Color	CU	15	</=15	AO	27	45	14	22	6	14	12	18	19			
Conductivity	uS		700	MAC	349	304	362	357	356	357	358	372	385			
TDS	mg/L	500	</=500	AO	200	193	187	233	210	233	206	238	260			
Hardness (CaCO3)	mg/L	80-100	</=500	AO	132.1	128	149.3	140	140	140	150	130	170			
pH	pH units	6.5-8.5	6.5-8.5	AO	7.69	7.52	7.68	7.8	7.6	7.7	7.7	7.86	7.8			
Turbidity	NTU's	5	1	MAC	0.84	0.27	0.36	0.6	<0.5	<0.5	<0.5	<0.5	<0.5			
Alkalinity	mg/L				145	144	150	150	150	150	150	150	150			
Chloride	mg/L	250	</=250	AO	14.4	11.28	9.42	11.6	10.9	12.8	9	13.1	14.2			
Fluoride	mg/L	1.5	1.5	MAC	0.15	0.14	0.08	<1.0	<1.0	0.2	<1.0	<1.0	<1.0			
Sulfate	mg/L	500	</=500	AO	15.4	12.07	23.65	22.8	15.5	14.9	15.3	15.4	21.2			
Nitrate	mg/L	10	10	MAC	0.092	0.04	0.1	0.2	0.3	0.04	<0.1	<0.1	0.2			
Nitrite	mg/L	1			<.002	0.04	<0.01	<0.01	<0.1	<0.01	<0.1	<0.1	0.1			
T-Aluminum	mg/L		0.2	MAC	0.014	<.009	0.006	<0.005	<0.005	<0.005	0.013	<0.05	<0.005			
T-Antimony	mg/L		0.006	MAC	<.006	<.006	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002			
T-Arsenic	mg/L	0.025	0.025	IMAC	<.01	<.01	0.001	0.0011	0.001	0.0011	0.0009	0.004	0.0009			
T-Barium	mg/L	1.0	1	MAC	0.0169	0.0121	0.033	0.015	0.023	0.028	0.03	0.02	0.032			
T-Boron	mg/L	5.0	5	MAC	0.065	0.058	0.055	0.065	0.052	0.058	0.069	0.05	0.074			
T-Cadmium	mg/L	0.005			<.0006	<.0006	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0003	<0.00001			
T-Calcium	mg/L				34.6	32.1	45.3	35	41.1	40.7	44.6	37.6	51.8			
T-Chromium	mg/L	0.05	0.05	MAC	<.0009	<.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.003	<0.0004			
T-Copper	mg/L	1.0	</=1	MAC	0.002	0.002	0.004	0.004	0.002	0.004	0.005	<0.005	0.004			
T-Iron	mg/L	0.3	</=0.3	AO	0.507	0.199	0.2	<0.1	<0.1	<0.1	<0.1	0.07	0.03			
T-Lead	mg/L	0.01	0.01	MAC	<.002	<.002	0.0002	0.0003	0.0003	0.0004	0.0005	<0.0005	0.0005			
T-Lithium	mg/L												0.002			
T-Magnesium	mg/L		</=700	AO	11.1	11.6	8.8	11.6	9.5	8.2	9.5	9	9.66			
T-Manganese	mg/L	0.05	</=0.05	AO	0.208	0.175	0.118	0.102	0.083	0.11	0.123	0.134	0.0997			
T-Mercury	mg/L	0.001	0.001	MAC	<.0001	<.0001	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.01	<0.01			
T-Nickel	mg/L												<0.001			
T-Phosphorus	mg/L												0.349			
T-Potassium	mg/L				2.2	2.4	2	2.5	2	2.1	2.2	2	2.2			
T-Selium	mg/L	0.01	0.01	MAC	<.004	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.003	<0.0006			
T-Silver	mg/L												<0.00001			
T-Sodium	mg/L	200	</=200	AO	20.1	23.3	16.2	22.3	19	21.1	19.7	21.9	23.6			
T-Uranium	mg/L	0.1	0.1	MAC	<.06	<.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.0004			
T-Zinc	mg/L	5	<5	AO	0.0029	0.0028	0.017	0.004	0.013	0.022	0.025	0.01	0.017			
Total Coliform	cfu/100ml	<1	<1	cfu/100ml	<1	n/a	n/a	<1	<1	<1	<1	<1.0	<1.0			
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml	<1	n/a	n/a	<1	<1	<1	<1					
E.coli	cfu/100ml	<1	<1	cfu/100ml						<1	<1	<1.0	<1.0			
Tannins & Lignins					n/a	0.15	n/a	n/a		n/a	n/a					
Trihalomethanes	mg/l	0.1		MAC	n/a	n/a	n/a	n/a		0.01	n/a					

Nanoose Pennisula Distribution Water Analysis Results

Location: 2812 Northwest Bay Road

Canadian Drinking Water Guidelines Package

MAC=Maximum Acceptable Concentration IMAC=Interim Maximum Acceptable Concentration AO=Aesthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines

Parameters	Water Quality Guidelines				13-May										
	Units	CDWG	BCAWQG		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Color	CU	15	</=15	AO	**23**										
Conductivity	uS		700	MAC	322										
TDS	mg/L	500	</=500	AO	214										
Hardness (CaCO3)	mg/L	80-100	</=500	AO	**140**										
pH	pH units	6.5-8.5	6.5-8.5	AO	8.1										
Turbidity	NTU's	5	1	MAC	0.8										
Alkalinity	mg/L				150										
Chloride	mg/L	250	</=250	AO	10.6										
Fluoride	mg/L	1.5	1.5	MAC	<1.0										
Sulfate	mg/L	500	</=500	AO	6.3										
Nitrate	mg/L	10	10	MAC	<0.1										
Nitrite	mg/L	1			<0.1										
T-Aluminum	mg/L		0.2	MAC	0.008										
T-Antimony	mg/L		0.006	MAC	<0.0002										
T-Arsenic	mg/L	0.025	0.025	IMAC	0.0032										
T-Barium	mg/L	1.0	1	MAC	0.014										
T-Boron	mg/L	5.0	5	MAC	0.054										
T-Cadmium	mg/L	0.005			<0.00001										
T-Calcium	mg/L				36.6										
T-Chromium	mg/L	0.05	0.05	MAC	<0.0004										
T-Copper	mg/L	1.0	</=1	MAC	0.03										
T-Iron	mg/L	0.3	</=0.3	AO	**0.32**										
T-Lead	mg/L	0.01	0.01	MAC	0.0026										
T-Lithium	mg/L				<0.001										
T-Magnesium	mg/L		</=700	AO	12.2										
T-Manganese	mg/L	0.05	</=0.05	AO	**0.0882**										
T-Mercury	mg/L	0.001	0.001	MAC	<0.01										
T-Nickel	mg/L				0.001										
T-Phosphorus	mg/L				0.261										
T-Potassium	mg/L				1.5										
T-Selium	mg/L	0.01	0.01	MAC	<0.0006										
T-Silver	mg/L				<0.00001										
T-Sodium	mg/L	200	</=200	AO	22.9										
T-Uranium	mg/L	0.1	0.1	MAC	<0.0004										
T-Zinc	mg/L	5	<5	AO	0.012										
Total Coliform	cfu/100ml	<1	<1	cfu/100ml	<1.0										
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml											
E.coli	cfu/100ml	<1	<1	cfu/100ml	<1.0										
Tannins & Lignins															
Trihalomethanes	mg/l	0.1		MAC											

West Bay Distribution Water Analysis Results

Location: 2315 Ida Lane

Canadian Drinking Water Guidelines Package

MAC=Maximum Acceptable Concentration IMAC=Interim Maximum Acceptable Concentration AO=Aesthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines

Parameters	Water Quality Guidelines				28-Jun		23-Apr		20-Apr	17-May	22-May	27-May	13-May			
	Units	CDWG	BCAWQG		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
Color	CU	15	</=15	AO	8		11	8	6	18	14	20	12			
Conductivity	uS		700	MAC	361		361	374	345	380	352	324	341			
TDS	mg/L	500	</=500	AO	187		187	250	220	213	202	212	230			
Hardness (CaCO3)	mg/L	80-100	</=500	AO	109.9		110.2	110	110	110	120	100	140			
pH	pH units	6.5-8.5	6.5-8.5	AO	7.7		7.78	7.7	7.7	7.8	7.7	7.97	8.1			
Turbidity	NTU's	5	1	MAC	0.11		0.16	0.6	<0.5	<0.5	<0.5	0.9	<0.5			
Alkalinity	mg/L				145		147	140	150	160	310	140	150			
Chloride	mg/L	250	</=250	AO	10.8		17.62	24.3	17.7	27.3	19.3	10.8	15.6			
Fluoride	mg/L	1.5	1.5	MAC	0.17		0.11	<1.0	<1.0	0.2	<1.0	<1.0	<1.0			
Sulfate	mg/L	500	</=500	AO	1.48		1.81	11.9	<2	2.6	2.9	<2.0	5			
Nitrate	mg/L	10	10	MAC	0.593		<0.01	<0.1	<0.1	0.04	<0.1	<0.1	<0.1			
Nitrite	mg/L	1			<0.002		<0.01	<0.1	<0.1	<0.01	<0.1	<0.1	0.1			
T-Aluminum	mg/L		0.2	MAC	0.014		0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005			
T-Antimony	mg/L		0.006	MAC	<0.006		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0002			
T-Arsenic	mg/L	0.025	0.025	IMAC	<0.01		0.0009	0.0012	0.0009	0.0013	0.0008	0.002	0.0018			
T-Barium	mg/L	1.0	1	MAC	<0.0006		0.005	0.005	0.005	0.005	0.005	<0.005	0.007			
T-Boron	mg/L	5.0	5	MAC	<0.008		0.08	0.084	0.066	0.07	0.078	0.05	0.063			
T-Cadmium	mg/L	0.005			<0.0006		<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0003	<0.00001			
T-Calcium	mg/L				27.5		27.3	28.9	27.8	28.6	30.6	25.5	35.8			
T-Chromium	mg/L	0.05	0.05	MAC	<0.0009		<0.0005	<0.0003	<0.0005	<0.0005	<0.0005	<0.003	<0.0004			
T-Copper	mg/L	1.0	</=1	MAC	0.002		0.002	0.001	0.002	0.005	0.002	<0.005	0.001			
T-Iron	mg/L	0.3	</=0.3	AO	0.092		0.2	<0.1	0.2	<0.1	<0.1	0.35	0.19			
T-Lead	mg/L	0.01	0.01	MAC	<0.002		0.0003	0.0001	0.0003	0.0001	0.0001	<0.0005	0.0002			
T-Lithium	mg/L												<0.001			
T-Magnesium	mg/L		</=700	AO	10		10.2	10.3	10.3	9.7	10.8	8.9	11.3			
T-Manganese	mg/L	0.05	</=0.05	AO	0.13		0.174	0.142	0.15	0.087	0.099	0.208	0.136			
T-Mercury	mg/L	0.001	0.001	MAC	<0.0001		<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.01	<0.01			
T-Nickel	mg/L												<0.001			
T-Phosphorus	mg/L												0.526			
T-Potassium	mg/L				2.3		2.7	2.6	2	2.7	2.6	2.3	2.3			
T-Selium	mg/L	0.01	0.01	MAC	<0.004		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.003	<0.0006			
T-Silver	mg/L												<0.00001			
T-Sodium	mg/L	200	</=200	AO	30.7		28.9	35.4	29	34.9	31.3	23.5	26.9			
T-Uranium	mg/L	0.1	0.1	MAC	<0.06		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.002	<0.0004			
T-Zinc	mg/L	5	<5	AO	0.0018		0.003	0.004	0.006	0.005	0.009	<0.005	0.006			
Total Coliform	cfu/100ml	<1	<1	cfu/100ml	<1		n/a	<1	<1	<1	<1	<1.0	<1.0			
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml	<1		n/a	<1	<1	<1	<1					
E.coli	cfu/100ml	<1	<1	cfu/100ml						<1	<1	<1.0	<1.0			
Tannins & Lignins							n/a	n/a	n/a	n/a	n/a					
Trihalomethanes	mg/l	0.1		MAC			n/a	n/a	n/a	0.03	n/a					

REGIONAL DISTRICT OF NANAIMO

Fairwinds Well Water Analysis Results

Fairwinds Well #1: 2275 Tippet Road

Canadian Drinking Water Guidelines Package

water SMART zero waste

MAC=Maximum Acceptable Concentration IMAC= Interim Maximum Acceptable Concentration AO= Asthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines
* raw well water

Parameter	Water Quality Guidelines				16-Oct	22-Oct	26-Oct	19-Oct	24-Oct	23-Oct	23-Oct	21-Oct	
	Units	CDWG	BCAWQG		2002	2003	2004	2005	2006	2007	2008	2009	2010
Color	CU	15	</=15	AO	16	14	9	17	5	14	24	28	
Conductivity	µS		700	MAC	311	326	319	327	326	331	329	329	
Total Dissolved Solids	mg/L	500	</=500	AO	187	187	180	334	210	207	218	216	
Hardness (CaCO3)	mg/L	80-100	</=500	AO	109.1	117	120	120	110	120	130	120	
pH	pH units	6.5-8.5	6.5-8.5	AO	7.78	7.8	7.8	8	7.9	8.08	7.94	7.8	
Turbidity	NTU's	5	1	MAC	0.83	2.06	1.6	1.5	1.3	1	1.2	1.3	
Alkalinity	mg/L				151	150	150	150	150	150	150	150	
Chloride	mg/L	250	</=250	AO	10.62	12.6	10.6	10.4	9.7	10.6	11.6	10.4	
Fluoride	mg/L	1.5	1.5	MAC	0.17	<0.6	<1.0	<1.0	<1.0	<1.0	1	<1	
Sulfate	mg/L	500	</=500	AO	1.72	3.7	3	3.8	4.8	4.6	4.8	6.2	
Nitrate (N)	mg/L	10	10	MAC	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Nitrite (N)	mg/L	1			<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
T-Aluminum	mg/L		0.2	MAC	0.017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
T-Antimony	mg/L		0.006	MAC	0.0004	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	
T-Arsenic	mg/L	0.025	0.025	IMAC	0.0031	0.0014	0.0019	0.0018	0.0016	0.0018	0.0017	0.0017	
T- Barium	mg/L	1.0	1	MAC	0.011	0.01	0.012	0.011	0.009	0.01	0.009	0.01	
T-Boron	mg/L	5.0	5	MAC	0.166	0.067	0.069	0.066	0.06	0.071	0.062	0.061	
T-Cadmium	mg/L	0.005			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00001	
T-Calcium	mg/L				26.4	28.1	29.1	30.4	28.1	29.6	30.6	28.2	
T-Chromium	mg/L	0.05	0.05	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	<0.0004	<0.0004	
T-Copper	mg/L	1.0	</=1	MAC	0.003	0.004	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	
T-Iron	mg/L	0.3	</=0.3	AO	0.6	0.7	0.7	0.7	0.6	0.7	0.61	0.606	
T-Lead	mg/L	0.01	0.01	MAC	0.001	0.0005	0.0003	0.0003	<0.0001	<0.0001	0.0001	<0.0001	
T-Lithium	mg/L											<0.001	
T-Magnesium	mg/L		</=700	AO	10.5	11.4	11.5	11	10.4	11	11.8	11.1	
T-Manganese	mg/L	0.05	</=0.05	AO	0.255	0.251	0.268	0.273	0.254	0.273	0.263	0.274	
T-Mercury	mg/L	0.001	0.001	MAC	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	<0.01	<0.01	
T-Nickle	mg/L											<0.001	
T-Phosphorus	mg/L											0.915	
T-Potassium	mg/L				2.3	2.5	2.5	2.5	2.5	2.5	2.4	2.5	
T-Selenium	mg/L	0.01	0.01	MAC	<0.0002	<0.0002	<0.0002	<.0002	<0.0002	0.0003	<0.0006	<0.0006	
T-Silver	mg/L											<0.00001	
T-Sodium	mg/L	200	</=200	AO	60.6	22	21.7	22.8	21.4	22.2	23.1	21.2	
T-Uranium	mg/L	0.1	0.1	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0004	<0.0004	
T-Zinc	mg/L	5	<5	AO	0.209	0.078	0.052	0.044	0.007	0.022	0.012	0.004	
Total Coli	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1.0	
Fecal Coli	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1	
E.coli	cfu/100ml	<1	<1	cfu/100ml					<1	<1	<1	<1	

REGIONAL DISTRICT OF NANAIMO

Fairwinds Well Water Analysis Results

Fairwinds Well #2: 2395 Nanoose Road

Canadian Drinking Water Guidelines Package

water SMART zero waste

MAC=Maximum Acceptable Concentration IMAC= Interim Maximum Acceptable Concentration AO= Asthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines
* raw well water

Parameter	Water Quality Guidelines				16-Oct	22-Oct	26-Oct	19-Oct	24-Oct	23-Oct	23-Oct	21-Oct	
	Units	CDWG	BCAWQG		2002	2003	2004	2005	2006	2007	2008	2009	2010
Color	CU	15	</=15	AO	45	<5	13	18	<5	18	25	84	
Conductivity	µS		700	MAC	371	382	343	350	457	365	359	390	
Total Dissolved Solids	mg/L	500	</=500	AO	207	220	210	190	290	247	224	246	
Hardness (CaCO3)	mg/L	80-100	</=500	AO	98	96	110	110	100	110	110	100	
pH	pH units	6.5-8.5	6.5-8.5	AO	7.57	7.63	7.7	7.9	7.8	8.06	7.97	7.6	
Turbidity	NTU's	5	1	MAC	0.42	0.92	1.2	1.2	1.1	1	1	1.9	
Alkalinity	mg/L				151	160	160	160	160	150	150	140	
Chloride	mg/L	250	</=250	AO	34.06	25.9	13.7	12.8	42.4	13.7	15.5	27.4	
Fluoride	mg/L	1.5	1.5	MAC	0.19	<0.6	<1.0	<1.0	<1.0	<1.0	1	<1.0	
Sulfate	mg/L	500	</=500	AO	2.49	4.8	5.2	5.2	6.4	6.4	7.9	11.4	
Nitrate (N)	mg/L	10	10	MAC	0.03	<0.1	<0.1	<0.1	0.3	<0.1	<0.1	<0.1	
Nitrite (N)	mg/L	1			<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
T-Aluminum	mg/L		0.2	MAC	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
T-Antimony	mg/L		0.006	MAC	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
T-Arsenic	mg/L	0.025	0.025	IMAC	0.0016	0.0025	0.0017	0.0015	0.0015	0.001	0.0012	0.0016	
T- Barium	mg/L	1.0	1	MAC	0.009	0.009	0.009	0.009	0.007	0.009	0.008	0.013	
T-Boron	mg/L	5.0	5	MAC	0.063	0.08	0.095	0.091	0.092	0.098	0.096	0.073	
T-Cadmium	mg/L	0.005			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
T-Calcium	mg/L				23.9	23.4	26.4	27.3	25.5	26.5	27.8	24.5	
T-Chromium	mg/L	0.05	0.05	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0006	<0.0004	<0.0004	
T-Copper	mg/L	1.0	</=1	MAC	0.004	0.002	<0.001	0.003	0.001	<0.001	<0.001	0.01	
T-Iron	mg/L	0.3	</=0.3	AO	0.7	1.1	0.7	0.7	0.4	0.6	0.56	0.992	
T-Lead	mg/L	0.01	0.01	MAC	0.0003	0.0005	<0.0001	<0.0001	<0.0001	<0.0001	0.0002	0.0006	
T-Lithium	mg/L											<0.001	
T-Magnesium	mg/L		</=700	AO	9.3	9.2	10.2	9.8	9.4	9.7	10.7	9.57	
T-Manganese	mg/L	0.05	</=0.05	AO	0.318	0.319	0.325	0.319	0.178	0.317	0.317	0.47	
T-Mercury	mg/L	0.001	0.001	MAC	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	<0.01	<0.01	
T-Nickle	mg/L											<0.001	
T-Phosphorus	mg/L												
T-Potassium	mg/L				2.7	2.7	2.8	2.9	3	2.9	3	3	
T-Selenium	mg/L	0.01	0.01	MAC	<0.0002	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0006	<0.0006	
T-Silver	mg/L											<0.00001	
T-Sodium	mg/L	200	</=200	AO	42.4	43.4	31.7	32.6	57.6	32	33.2	41.9	
T-Uranium	mg/L	0.1	0.1	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0004	<0.0004	
T-Zinc	mg/L	5	<5	AO	0.06	0.049	0.006	0.013	0.003	0.006	0.005	0.081	
Total Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1.0	
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1.0	
E.coli	cfu/100ml	<1	<1	cfu/100ml					<1	<1	<1	<1.0	

REGIONAL DISTRICT OF NANAIMO

Fairwinds Well Water Analysis Results

Fairwinds Well #3: 2301 Nanoose Road

Canadian Drinking Water Guidelines Package

water SMART zero waste

MAC=Maximum Acceptable Concentration IMAC= Interim Maximum Acceptable Concentration AO= Asthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines
* raw well water

Parameter	Water Quality Guidelines				2002	2003	26-Oct 2004	19-Oct 2005	24-Oct 2006	23-Oct 2007	23-Oct 2008	21-Oct 2009	2010
	Units	CDWG	BCAWQG										
Color	CU	15	</=15	AO		off	12	12	12	**18**	**24**	**39**	
Conductivity	µS		700	MAC		off	504	516	494	524	525	554	
Total Dissolved Solids	mg/L	500	</=500	AO		off	270	**560**	270	267	334	326	
Hardness (CaCO3)	mg/L	80-100	</=500	AO		off	**110**	**130**	**120**	**130**	**150**	**140**	
pH	pH units	6.5-8.5	6.5-8.5	AO		off	7.80	8.00	7.80	8.05	8.05	7.80	
Turbidity	NTU's	5	1	MAC		off	0.5	0.6	0.6	1.1	2.5	3.6	
Alkalinity	mg/L					off	150	150	150	140	150	140	
Chloride	mg/L	250	</=250	AO		off	66.4	70.6	61.3	66.9	68.6	77.6	
Fluoride	mg/L	1.5	1.5	MAC		off	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Sulfate	mg/L	500	</=500	AO		off	<2.0	<2.0	3.2	4.4	6.2	5.7	
Nitrate (N)	mg/L	10	10	MAC		off	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Nitrite (N)	mg/L	1				off	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
T-Aluminum	mg/L		0.2	MAC		off	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	
T-Antimony	mg/L		0.006	MAC		off	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	
T-Arsenic	mg/L	0.025	0.025	IMAC		off	0.0049	0.0046	0.0043	0.0046	0.0044	0.0054	
T- Barium	mg/L	1.0	1	MAC		off	0.008	0.009	0.008	0.010	0.008	0.009	
T-Boron	mg/L	5.0	5	MAC		off	0.111	0.103	0.095	0.100	0.094	0.086	
T-Cadmium	mg/L	0.005				off	<0.00001	<0.00001	<0.00002	0.00002	<0.00001	<0.00001	
T-Calcium	mg/L					off	27.3	32.4	31.1	33.7	36.6	34.3	
T-Chromium	mg/L	0.05	0.05	MAC		off	<0.0005	<0.0005	<0.001	0.0006	0.0006	<0.0004	
T-Copper	mg/L	1.0	</=1	MAC		off	0.002	0.003	0.006	0.001	0.032	0.002	
T-Iron	mg/L	0.3	</=0.3	AO		off	**0.400**	**0.400**	**0.400**	**0.500**	**0.490**	**0.672**	
T-Lead	mg/L	0.01	0.01	MAC		off	0.0011	0.0013	0.0004	0.0002	0.0126	0.0007	
T_Lithium	mg/L											<0.001	
T-Magnesium	mg/L		</=700	AO		off	10.0	11.2	11.0	12.0	13.6	12.8	
T-Manganese	mg/L	0.05	</=0.05	AO		off	**0.162**	**0.196**	**0.190**	**0.213**	**0.223**	**0.234**	
T-Mercury	mg/L	0.001	0.001	MAC		off	<0.0002	<0.0001	<0.0001	<0.0001	<0.0100	<0.0100	
T-Nickle	mg/L											<0.001	
T-Phosphorus	mg/L											1.19	
T-Potassium	mg/L					off	3.4	3.7	3.7	3.7	3.7	3.7	
T-Selenium	mg/L	0.01	0.01	MAC		off	<0.0002	<0.0002	<0.0004	<0.0002	<0.0006	<0.0006	
T-Silver	mg/L											<0.00001	
T-Sodium	mg/L	200	</=200	AO		off	52.2	53.0	47.4	46.9	49.0	50.8	
T-Uranium	mg/L	0.1	0.1	MAC		off	<0.0005	<0.0005	<0.001	<0.0005	<0.0004	<0.0004	
T-Zinc	mg/L	5	<5	AO		off	0.017	0.010	0.009	0.016	0.052	0.166	
Total Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1	
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1	
E.coli	cfu/100ml	<1	<1	cfu/100ml					<1	<1	<1	<1	

REGIONAL DISTRICT OF NANAIMO

Madrona Well Water Analysis Results

Madrona Well # 4: Northwest Bay Logging Road

Canadian Drinking Water Guidelines Package

MAC=Maximum Acceptable Concentration IMAC= Interim Maximum Acceptable Concentration AO= Asthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines
* raw well water

Parameter	Water Quality Guidelines				16-Oct	22-Oct	24-Nov	19-Oct	24-Oct	23-Oct	23-Oct	21-Oct	
	Units	CDWG	BCAWQG		2002	2003	2004	2005	2006	2007	2008	2009	2010
Color	CU	15	</=15	AO	8	13	6	5	<5	8	7	12	
Conductivity	µS		700	MAC	275	363	357	340	311	339	338	336	
Total Dissolved Solids	mg/L	500	</=500	AO	127	207	220	280	200	207	228	190	
Hardness (CaCO3)	mg/L	80-100	</=500	AO	**37.2**	**30**	**28**	**25**	**27**	**30**	**33**	**31**	
pH	pH units	6.5-8.5	6.5-8.5	AO	8.50	8.48	**8.7**	8.50	8.4	8.34	8.64	8.6	
Turbidity	NTU's	5	1	MAC	0.10	0.41	<0.5	<0.5	0.6	<0.5	<0.5	0.8	
Alkalinity	mg/L				126	160	140	140	130	130	130	130	
Chloride	mg/L	250	</=250	AO	15.35	22.6	23.9	20.5	17.1	19.1	21.3	20.1	
Fluoride	mg/L	1.5	1.5	MAC	0.13	<0.6	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	
Sulfate	mg/L	500	</=500	AO	1.90	1.70	<2	4.80	3.6	4.5	5	5.1	
Nitrate (N)	mg/L	10	10	MAC	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Nitrite (N)	mg/L	1			<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
T-Aluminum	mg/L		0.2	MAC	0.024	<0.005	0.017	<0.005	0.027	0.007	<0.005	<0.005	
T-Antimony	mg/L		0.006	MAC	<0.0002	<0.0002	<0.0002	<0.0002	<0.0004	<0.0002	<0.0002	<0.0002	
T-Arsenic	mg/L	0.025	0.025	IMAC	0.0103	0.0106	0.0113	0.0099	0.0089	0.0088	0.0089	0.0084	
T- Barium	mg/L	1.0	1	MAC	0.010	0.011	0.011	0.010	0.009	0.01	0.009	0.01	
T-Boron	mg/L	5.0	5	MAC	0.119	0.185	0.212	0.192	0.16	0.18	0.171	0.162	
T-Cadmium	mg/L	0.005			<0.00001	<0.00001	<0.00001	<0.00001	<0.00002	<0.00001	<0.00001	<0.00001	
T-Calcium	mg/L				10.3	8.1	<0.2	6.6	7.5	7.9	8.61	8.07	
T-Chromium	mg/L	0.05	0.05	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.0004	<0.0004	
T-Copper	mg/L	1.0	</=1	MAC	0.002	0.002	0.004	<0.001	<0.002	<0.001	<0.001	0.002	
T-Iron	mg/L	0.3	</=0.3	AO	<0.1	<0.1	<0.1	<0.1	<0.2	<0.1	<0.02	<0.010	
T-Lead	mg/L	0.01	0.01	MAC	0.0002	0.0004	0.0016	0.0002	<0.0002	<0.0001	0.0002	0.0001	
T-Lithium	mg/l											<0.001	
T-Magnesium	mg/L		</=700	AO	2.8	2.3	2.4	2	2.1	2.4	2.77	2.53	
T-Manganese	mg/L	0.05	</=0.05	AO	0.030	0.015	0.018	0.012	0.02	0.013	0.0138	0.0139	
T-Mercury	mg/L	0.001	0.001	MAC	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	<0.01	<0.01	
T-Nickle	mg/l											<0.001	
T-Phosphorus	mg/l											0.31	
T-Potassium	mg/L				1.5	1.4	1.6	1.4	1.5	1.6	1.6	1.7	
T-Selenium	mg/L	0.01	0.01	MAC	<0.0002	<0.0002	0.0009	<0.0002	<0.0004	0.0002	<0.0006	<0.0006	
T-Silver												<0.00001	
T-Sodium	mg/L	200	</=200	AO	48.8	63.1	70.9	68.5	57.1	62.4	63	63.4	
T-Uranium	mg/L	0.1	0.1	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.0004	<0.0004	
T-Zinc	mg/L	5	<5	AO	0.014	0.003	0.034	0.014	0.028	0.006	0.01	0.005	
Total Coliforms	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1	
Fecal Coliforms	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1	
E.coli	cfu/100ml	<1	<1	cfu/100ml					<1	<1	<1	<1	

REGIONAL DISTRICT OF NANAIMO

Wall Brook Well Water Analysis Results

Wall Brook Well # 1: 1610 Northwest Bay Road

Canadian Drinking Water Guidelines Package

MAC=Maximum Acceptable Concentration IMAC= Interim Maximum Acceptable Concentration AO= Asthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines
* raw well water

Parameter	Water Quality Guidelines				23-Oct	21-Oct							
	Units	CDWG	BCAWQG		2008	2009	2010	2011	2012	2013	2014	2015	2016
Color	CU	15	</=15	AO	<5	10							
Conductivity	µS		700	MAC	331	327							
Total Dissolved Solids	mg/L	500	</=500	AO	208	208							
Hardness (CaCO3)	mg/L	80-100	</=500	AO	**140**	**130**							
pH	pH units	6.5-8.5	6.5-8.5	AO	8.22	8.10							
Turbidity	NTU's	5	1	MAC	<0.5	0.80							
Alkalinity	mg/L				160	160							
Chloride	mg/L	250	</=250	AO	7.9	5.7							
Fluoride	mg/L	1.5	1.5	MAC	**1.6**	<1.0							
Sulfate	mg/L	500	</=500	AO	6.60	6.10							
Nitrate (N)	mg/L	10	10	MAC	<.01	<0.1							
Nitrite (N)	mg/L	1			<.01	<0.1							
T-Aluminum	mg/L		0.2	MAC	<0.005	0.037							
T-Antimony	mg/L		0.006	MAC	<0.0002	<0.0002							
T-Arsenic	mg/L	0.025	0.025	IMAC	0.0029	0.0033							
T- Barium	mg/L	1.0	1	MAC	0.014	0.015							
T-Boron	mg/L	5.0	5	MAC	0.051	0.05							
T-Cadmium	mg/L	0.005			<0.00001	<0.00001							
T-Calcium	mg/L				35	31.9							
T-Chromium	mg/L	0.05	0.05	MAC	<0.0004	<0.0004							
T-Copper	mg/L	1.0	</=1	MAC	0.003	0.005							
T-Iron	mg/L	0.3	</=0.3	AO	<0.02	0.036							
T-Lead	mg/L	0.01	0.01	MAC	0.0006	0.001							
T-Lithium	mg/L					<0.001							
T-Magnesium	mg/L		</=700	AO	12.6	11.8							
T-Manganese	mg/L	0.05	</=0.05	AO	**0.107**	**0.113**							
T-Mercury	mg/L	0.001	0.001	MAC	<0.01	<0.01							
T-Nickle	mg/L					<0.00001							
T-Phosphorus	mg/L					0.157							
T-Potassium	mg/L				1.4	1.4							
T-Selenium	mg/L	0.01	0.01	MAC	<0.0006	<0.0006							
T-Silver	mg/L					<0.00001							
T-Sodium	mg/L	200	</=200	AO	20.5	18.2							
T-Uranium	mg/L	0.1	0.1	MAC	<0.0004	<0.0004							
T-Zinc	mg/L	5	<5	AO	0.016	0.034							
Total Coliforms	cfu/100ml	<1	<1	cfu/100ml	<1	<1							
Fecal Coliforms	cfu/100ml	<1	<1	cfu/100ml	<1	<1							
E.coli	cfu/100ml	<1	<1	cfu/100ml	<1	<1							

REGIONAL DISTRICT OF NANAIMO

Madrona Well Water Analysis Results

Madrona Well # 8: Stonelake Drive

Canadian Drinking Water Guidelines Package

MAC=Maximum Acceptable Concentration IMAC= Interim Maximum Acceptable Concentration AO= Asthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines
* raw well water

Parameter	Water Quality Guidelines				23-Oct	21-Oct							
	Units	CDWG	BCAWQG		2008	2009	2010	2011	2012	2013	2014	2015	2016
Color	CU	15	</=15	AO	<5	71							
Conductivity	µS		700	MAC	325	336							
Total Dissolved Solids	mg/L	500	</=500	AO	222	204							
Hardness (CaCO3)	mg/L	80-100	</=500	AO	**160**	**160**							
pH	pH units	6.5-8.5	6.5-8.5	AO	8.17	7.90							
Turbidity	NTU's	5	1	MAC	<0.5	0.70							
Alkalinity	mg/L				140	150							
Chloride	mg/L	250	</=250	AO	10.3	8							
Fluoride	mg/L	1.5	1.5	MAC	**1.7**	<1.0							
Sulfate	mg/L	500	</=500	AO	10.80	9.50							
Nitrate (N)	mg/L	10	10	MAC	1.4	1.3							
Nitrite (N)	mg/L	1			<0.1	<0.1							
T-Aluminum	mg/L		0.2	MAC	<0.005	<0.005							
T-Antimony	mg/L		0.006	MAC	<0.0002	<0.0002							
T-Arsenic	mg/L	0.025	0.025	IMAC	0.0016	0.0016							
T- Barium	mg/L	1.0	1	MAC	0.007	0.008							
T-Boron	mg/L	5.0	5	MAC	0.016	0.014							
T-Cadmium	mg/L	0.005			<0.00001	<0.00001							
T-Calcium	mg/L				44.3	42.4							
T-Chromium	mg/L	0.05	0.05	MAC	0.0007	0.0008							
T-Copper	mg/L	1.0	</=1	MAC	0.006	0.192							
T-Iron	mg/L	0.3	</=0.3	AO	<0.02	**1.28**							
T-Lead	mg/L	0.01	0.01	MAC	0.0004	0.0235							
T-Lithium	mg/L					0.001							
T-Magnesium	mg/L		</=700	AO	12.7	12.2							
T-Manganese	mg/L	0.05	</=0.05	AO	0.000	0.003							
T-Mercury	mg/L	0.001	0.001	MAC	<0.01	<0.01							
T-Nickle	mg/L					0.001							
T-Potassium	mg/L				0.7	0.7							
T-Selenium	mg/L	0.01	0.01	MAC	<0.0006	<0.0006							
T-Silver	mg/L					0.00001							
T-Sodium	mg/L	200	</=200	AO	7.8	7.03							
T-Uranium	mg/L	0.1	0.1	MAC	<0.0004	<0.0004							
T-Zinc	mg/L	5	<5	AO	0.008	0.077							
Total Coliforms	cfu/100ml	<1	<1	cfu/100ml	<1	<1							
Fecal Coliforms	cfu/100ml	<1	<1	cfu/100ml	<1	<1							
E.coli	cfu/100ml	<1	<1	cfu/100ml	<1	<1							

REGIONAL DISTRICT OF NANAIMO

Nanoose Well Water Analysis Results

Nanoose Well # 1: 2550 Northwest Bay Road

Canadian Drinking Water Guidelines Package

MAC=Maximum Acceptable Concentration IMAC= Interim Maximum Acceptable Concentration AO= Aesthetic Objective

Red font indicates non-compliance with Canadian Drinking Water Guidelines

* raw well water

Parameter	Water Quality Guidelines				16-Oct	22-Oct	26-Oct	19-Oct	24-Oct	24-Oct	20-Oct	26-Oct	
	Units	CDWG	BCAWQG		2002	2003	2004	2005	2006	2007	2008	2009	2010
Color	CU	15	</=15	AO	7	<5	5	6	5	8	13	off	
Conductivity	µS		700	MAC	254	33	317	321	317	324	320	off	
Total Dissolved Solids	mg/L	500	</=500	AO	180	173	190	300	210	247	174	off	
Hardness (CaCO3)	mg/L	80-100	</=500	AO	**134.1**	**138**	**120**	**150**	**130**	**140**	**140**	off	
pH	pH units	6.5-8.5	6.5-8.5	AO	7.89	7.62	7.9	8	8	8.15	7.8	off	
Turbidity	NTU's	5	1	MAC	0.64	1.16	0.9	0.7	0.7	0.6	0.8	off	
Alkalinity	mg/L				150	160	160	160	160	150	160	off	
Chloride	mg/L	250	</=250	AO	3.83	4.1	3.8	3.6	4.4	3.7	3.7	off	
Fluoride	mg/L	1.5	1.5	MAC	0.10	<0.6	<1.0	<1.0	<1.0	<1.0	<1.0	off	
Sulfate	mg/L	500	</=500	AO	9.31	9.4	8.1	8	8.9	6.9	6.5	off	
Nitrate (N)	mg/L	10	10	MAC	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	off	
Nitrite (N)	mg/L	1			<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	off	
T-Aluminum	mg/L		0.2	MAC	<0.005	<0.005	0.007	<0.005	0.018	0.009	<0.005	off	
T-Antimony	mg/L		0.006	MAC	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	off	
T-Arsenic	mg/L	0.025	0.025	IMAC	0.0011	0.0012	0.0009	0.001	0.001	0.001	0.0009	off	
T- Barium	mg/L	1.0	1	MAC	0.017	0.018	0.009	0.019	0.018	0.019	0.017	off	
T-Boron	mg/L	5.0	5	MAC	0.024	0.034	0.074	0.035	0.035	0.035	0.029	off	
T-Cadmium	mg/L	0.005			<0.00001	<0.00001	0.00002	<0.00001	<0.00001	<0.00001	<0.00001	off	
T-Calcium	mg/L				32.9	34	35.8	36.6	33.2	35.1	35.8	off	
T-Chromium	mg/L	0.05	0.05	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0004	off	
T-Copper	mg/L	1.0	</=1	MAC	0.001	0.05	0.079	0.003	0.003	0.007	0.02	off	
T-Iron	mg/L	0.3	</=0.3	AO	**0.3**	**0.4**	**0.4**	**0.4**	**0.3**	**0.4**	**0.32**	off	
T-Lead	mg/L	0.01	0.01	MAC	0.0003	0.0034	0.007	0.001	0.0005	0.0019	0.0033	off	
T-Magnesium	mg/L		</=700	AO	12.6	13.1	13.6	13	11.9	12.8	12.9	off	
T-Manganese	mg/L	0.05	</=0.05	AO	**0.166**	**0.161**	**0.178**	**0.19**	0.17	**0.191**	**0.18**	off	
T-Mercury	mg/L	0.001	0.001	MAC	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	<0.01	off	
T-Potassium	mg/L				2	2.2	2.3	2.2	2.3	2.4	2.2	off	
T-Selenium	mg/L	0.01	0.01	MAC	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	0.0004	<0.0006	off	
T-Sodium	mg/L	200	</=200	AO	12	12.1	13	13.2	12.9	13	11.6	off	
T-Uranium	mg/L	0.1	0.1	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0004	off	
T-Zinc	mg/L	5	<5	AO	0.013	0.177	0.321	0.006	0.01	0.018	0.101	off	
												off	
Total Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	off	
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	off	
E.coli	cfu/100ml	<1	<1	cfu/100ml					<1	<1	<1	off	

REGIONAL DISTRICT OF NANAIMO

Nanoose Well Water Analysis Results

Nanoose Well # 2: 1987 Claudet Road

Canadian Drinking Water Guidelines Package

MAC=Maximum Acceptable Concentration IMAC= Interim Maximum Acceptable Concentration AO= Asthetic Objective.

water SMART zero waste

Red font indicates non-compliance with Canadian Drinking Water Guidelines

* raw well water

Parameter	Water Quality Guidelines				16-Oct	22-Oct	26-Oct	19-Oct	24-Oct	24-Oct	20-Oct	26-Oct	
	Units	CDWG	BCAWQG		2002	2003	2004	2005	2006	2007	2008	2009	2010
Color	CU	15	</=15	AO	8	11	<5	8	5	10	10	12	
Conductivity	µS		700	MAC	307	321	324	329	320	333	336	351	
Total Dissolved Solids	mg/L	500	</=500	AO	180	167	180	182	210	240	208	224	
Hardness (CaCO3)	mg/L	80-100	</=500	AO	**113.6**	**124**	**120**	**130**	**120**	**130**	**130**	**140**	
pH	pH units	6.5-8.5	6.5-8.5	AO	7.95	7.86	8	8	8.1	8.16	7.92	8.1	
Turbidity	NTU's	5	1	MAC	1.02	0.98	<0.5	<0.5	<0.5	<0.5	0.5	0.5	
Alkalinity	mg/L				138	150	140	140	140	140	150	140	
Chloride	mg/L	250	</=250	AO	6.32	7.2	6.9	7.5	6.7	6.5	0.7	7.4	
Fluoride	mg/L	1.5	1.5	MAC	0.16	<0.6	<1	<1.0	<1.0	<1.0	<1.0	<1.0	
Sulfate	mg/L	500	</=500	AO	21.06	16.9	20.8	21.5	16.6	18.7	19.7	24	
Nitrate (N)	mg/L	10	10	MAC	0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Nitrite (N)	mg/L	1			0.03	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
T-Aluminum	mg/L		0.2	MAC	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
T-Antimony	mg/L		0.006	MAC	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
T-Arsenic	mg/L	0.025	0.025	IMAC	0.0004	0.0006	0.0006	0.0006	0.0005	0.0007	0.0006	0.0008	
T- Barium	mg/L	1.0	1	MAC	0.017	0.019	0.018	0.02	0.018	0.02	0.017	0.019	
T-Boron	mg/L	5.0	5	MAC	0.054	0.07	0.072	0.07	0.069	0.07	0.06	0.078	
T-Cadmium	mg/L	0.005			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00001	<0.00001	<0.00001	
T-Calcium	mg/L				31.3	35	36.4	38.1	33.4	36.8	37.8	37.7	
T-Chromium	mg/L	0.05	0.05	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0004	<0.0004	
T-Copper	mg/L	1.0	</=1	MAC	<0.001	0.006	<0.001	<0.001	<0.001	<0.001	0.002	0.002	
T-Iron	mg/L	0.3	</=0.3	AO	0.2	0.2	0.2	0.2	0.2	0.2	0.18	0.199	
T-Lead	mg/L	0.01	0.01	MAC	<0.001	0.0002	<0.0001	<0.0001	<0.0001	<0.0001	0.0001	0.0001	
T-Lithium	mg/L											0.001	
T-Magnesium	mg/L		</=700	AO	8.6	9.5	9.6	9.4	8.4	9.3	9.28	10.1	
T-Manganese	mg/L	0.05	</=0.05	AO	**0.11**	**0.11**	**0.116**	**0.122**	**0.107**	**0.121**	**0.112**	**0.121**	
T-Mercury	mg/L	0.001	0.001	MAC	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	<0.01	<0.01	
T-Nickle	mg/L											<0.001	
T-Phosphorus	mg/L											0.452	
T-Potassium	mg/L				2.4	2.4	2.6	2.5	2.4	2.6	2.2	2.5	
T-Selenium	mg/L	0.01	0.01	MAC	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0006	<0.0006	
T-Silver	mg/L											<0.00001	
T-Sodium	mg/L	200	</=200	AO	17	16	17.8	17.7	16.4	17	14.7	16.3	
T-Uranium	mg/L	0.1	0.1	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0004	<0.0004	
T-Zinc	mg/L	5	<5	AO	0.046	0.009	0.02	0.001	0.002	0.018	0.01	0.014	
Total Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1	
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1	
E.coli	cfu/100ml	<1	<1	cfu/100ml					<1	<1	<1	<1	

REGIONAL DISTRICT OF NANAIMO

Nanoose Well Water Analysis Results

Nanoose Well # 3: 1990 Delanice Way

Canadian Drinking Water Guidelines Package

MAC=Maximum Acceptable Concentration IMAC= Interim Maximum Acceptable Concentration AO= Asthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines
* raw well water

water SMART zero waste

Parameter	Water Quality Guidelines				16-Oct	22-Oct	26-Oct	19-Oct	24-Oct	24-Oct	20-Oct	26-Oct	
	Units	CDWG	BCAWQG		2002	2003	2004	2005	2006	2007	2008	2009	2010
Color	CU	15	</=15	AO	23	10	<5	16	<5	8	5	44	
Conductivity	µS		700	MAC	311	336	371	359	167.9	377	90	345	
Total Dissolved Solids	mg/L	500	</=500	AO	180	220	210	236	98	280	42	198	
Hardness (CaCO3)	mg/L	80-100	</=500	AO	115.6	123	120	120	45	110	31	130	
pH	pH units	6.5-8.5	6.5-8.5	AO	7.72	7.59	7.7	8	7.4	8.08	7.04	8	
Turbidity	NTU's	5	1	MAC	1.68	2.45	<0.5	0.8	<0.5	<0.5	0.5	3.7	
Alkalinity	mg/L				142	150	150	150	30	140	30	140	
Chloride	mg/L	250	</=250	AO	2.97	6.5	29	20.6	24.7	24.3	9.9	9.8	
Fluoride	mg/L	1.5	1.5	MAC	0.42	<0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Sulfate	mg/L	500	</=500	AO	7.47	16.4	2.4	2.3	2.9	3.3	<2.0	17.7	
Nitrate (N)	mg/L	10	10	MAC	0.09	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Nitrite (N)	mg/L	1			<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
T-Aluminum	mg/L		0.2	MAC	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	0.005	<0.005	
T-Antimony	mg/L		0.006	MAC	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
T-Arsenic	mg/L	0.025	0.025	IMAC	0.0015	0.0016	0.0013	0.0015	<0.0002	0.0012	<0.0002	0.0018	
T- Barium	mg/L	1.0	1	MAC	0.017	0.019	0.006	0.008	0.01	0.006	0.005	0.018	
T-Boron	mg/L	5.0	5	MAC	0.05	0.072	0.082	0.083	0.018	0.079	0.009	0.077	
T-Cadmium	mg/L	0.005			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	
T-Calcium	mg/L				28.8	30.6	28.5	29.3	15.2	28.2	10.4	32.1	
T-Chromium	mg/L	0.05	0.05	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0004	0.0004	
T-Copper	mg/L	1.0	</=1	MAC	0.001	<0.001	0.004	0.003	0.005	0.007	0.008	0.002	
T-Iron	mg/L	0.3	</=0.3	AO	1.1	1.2	<0.1	0.5	<0.1	0.2	0.03	1.07	
T-Lead	mg/L	0.01	0.01	MAC	0.0004	0.0003	0.0005	0.0006	0.0003	0.0013	0.0003	<0.0001	
T-Lithium	mg/L											<0.001	
T-Magnesium	mg/L		</=700	AO	10.6	11.3	10.7	10.3	1.8	10.1	1.19	11.6	
T-Manganese	mg/L	0.05	</=0.05	AO	0.26	0.257	0.095	0.236	<0.005	0.188	0.0009	0.273	
T-Mercury	mg/L	0.001	0.001	MAC	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	<0.01	<0.01	
T-Nickle	mg/L											<0.001	
T-Phosphorus	mg/L											0.921	
T-Potassium	mg/L				2.2	2.3	2.6	2.6	<0.4	2.6	0.2	2.2	
T-Selenium	mg/L	0.01	0.01	MAC	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0006	<0.0006	
T-Silver	mg/L											<0.00001	
T-Sodium	mg/L	200	</=200	AO	18.5	18.3	36.7	31.7	9.2	32.6	4.19	18.3	
T-Uranium	mg/L	0.1	0.1	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0004	<0.0004	
T-Zinc	mg/L	5	<5	AO	0.008	0.002	0.009	0.009	0.006	0.008	0.011	0.034	
Total Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1	
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1	
E.coli	cfu/100ml	<1	<1	cfu/100ml					<1	<1	<1	<1	

REGIONAL DISTRICT OF NANAIMO

Nanoose Well Water Analysis Results

Nanoose Well # 4: 2311 Northwest Bay Road

Canadian Drinking Water Guidelines Package

MAC=Maximum Acceptable Concentration IMAC= Interim Maximum Acceptable Concentration AO= Asthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines
* raw well water

water SMART zero waste

Parameter	Water Quality Guidelines				16-Oct	22-Oct	26-Oct	19-Oct	24-Oct	24-Oct	20-Oct	26-Oct	
	Units	CDWG	BCAWQG		2002	2003	2004	2005	2006	2007	2008	2009	2010
Color	CU	15	</=15	AO	**28**	10	11	**16**	7	**16**	10	**24**	
Conductivity	µS		700	MAC	330	345	331	333	325	329	324	326	
Total Dissolved Solids	mg/L	500	</=500	AO	180	193	170	240	210	173	54	208	
Hardness (CaCO3)	mg/L	80-100	</=500	AO	**120.2**	**125**	**130**	**130**	**120**	**120**	**27**	**120**	
pH	pH units	6.5-8.5	6.5-8.5	AO	7.36	7.55	7.8	8	7.9	8.05	6.45	8	
Turbidity	NTU's	5	1	MAC	1.65	4.76	1.7	2.6	1.6	1.8	1.7	1.1	
Alkalinity	mg/L				196	180	180	170	170	160	170	170	
Chloride	mg/L	250	</=250	AO	1.77	4	3.7	3.5	3.9	3.6	8.5	4.3	
Fluoride	mg/L	1.5	1.5	MAC	0.42	<0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Sulfate	mg/L	500	</=500	AO	0.41	1.7	<2.0	<2	<2.0	<2.0	<2.0	<2.0	
Nitrate (N)	mg/L	10	10	MAC	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Nitrite (N)	mg/L	1			0.14	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
T-Aluminum	mg/L		0.2	MAC	0.019	<0.005	0.008	<0.005	0.008	0.019	0.014	<0.005	
T-Antimony	mg/L		0.006	MAC	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
T-Arsenic	mg/L	0.025	0.025	IMAC	0.0027	0.0025	0.0024	0.0022	0.0022	0.0024	<0.0002	0.0023	
T- Barium	mg/L	1.0	1	MAC	0.017	0.011	0.011	0.012	0.01	0.012	0.003	0.01	
T-Boron	mg/L	5.0	5	MAC	0.045	0.078	0.073	0.074	0.071	0.076	0.009	0.082	
T-Cadmium	mg/L	0.005			<0.00001	0.0003	<0.00001	<0.00001	<0.00001	0.00002	<0.00001	<0.00001	
T-Calcium	mg/L				29	30.1	31.5	31.6	29.1	29.8	8.61	28.1	
T-Chromium	mg/L	0.05	0.05	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0006	<0.0004	<0.0004	
T-Copper	mg/L	1.0	</=1	MAC	0.002	0.052	0.003	0.006	<0.001	0.234	0.005	0.001	
T-Iron	mg/L	0.3	</=0.3	AO	**1.7**	**1**	**0.7**	**0.8**	**0.6**	**0.9**	0.03	**0.514**	
T-Lead	mg/L	0.01	0.01	MAC	0.0005	0.0081	0.0005	0.0007	0.0002	***0.0101**	0.0008	<0.0001	
T-Lithium	mg/L											<0.001	
T-Magnesium	mg/L		</=700	AO	11.6	12.2	12.3	11.6	10.9	11.2	1.3	11.3	
T-Manganese	mg/L	0.05	</=0.05	AO	**0.34**	**0.37**	**0.260**	**0.278**	**0.242**	**0.319**	0.0124	**0.235**	
T-Mercury	mg/L	0.001	0.001	MAC	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	<0.01	<0.01	
T-Nickle	mg/L											<0.001	
T-Phosphorus	mg/L											0.921	
T-Potassium	mg/L				2.1	2.3	2.3	2.3	2.4	2.3	0.3	2.3	
T-Selenium	mg/L	0.01	0.01	MAC	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0003	<0.0006	<0.0006	
T-Silver	mg/L											<0.00001	
T-Sodium	mg/L	200	</=200	AO	21.2	15.5	23.4	24.5	22.8	23.2	3.96	22.6	
T-Uranium	mg/L	0.1	0.1	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0004	<0.0004	
T-Zinc	mg/L	5	<5	AO	0.16	0.761	0.005	0.01	0.004	0.224	0.031	0.038	
Total Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	**OG**	<1	<1	
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1	
E.coli	cfu/100ml	<1	<1	cfu/100ml					<1	<1	<1	<1	

Note: Total coliforms can be an indicator of adverse water quality if the result in the re-sample is confirmed positive. (United States Environmental Protection Agency (EPA), 2008) RDN Water samples are always tested for Fecal coliform bacteria at the same time as Total coliforms to rule out the presence of harmful pathogens.

* Re-sample for Lead for 2007 - Result 0.0001 mg/l

REGIONAL DISTRICT OF NANAIMO

Nanoose Well Water Analysis Results

Nanoose Well # 5: 2548 Nuttal Drive

Canadian Drinking Water Guidelines Package

MAC=Maximum Acceptable Concentration IMAC= Interim Maximum Acceptable Concentration AO= Asthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines
* raw well water

water SMART zero waste

Parameter	Water Quality Guidelines				16-Oct	22-Oct	26-Oct	19-Oct	24-Oct	24-Oct	20-Oct	26-Oct	
	Units	CDWG	BCAWQG		2002	2003	2004	2005	2006	2007	2008	2009	2010
Color	CU	15	</=15	AO	12	off	off	off	off	off	off	off	off
Conductivity	µS		700	MAC	432	off	off	off	off	off	off	off	off
Total Dissolved Solids	mg/L	500	</=500	AO	260	off	off	off	off	off	off	off	off
Hardness (CaCO3)	mg/L	80-100	</=500	AO	**204.4**	off	off	off	off	off	off	off	off
pH	pH units	6.5-8.5	6.5-8.5	AO	7.92	off	off	off	off	off	off	off	off
Turbidity	NTU's	5	1	MAC	3.89	off	off	off	off	off	off	off	off
Alkalinity	mg/L				142	off	off	off	off	off	off	off	off
Chloride	mg/L	250	</=250	AO	8.57	off	off	off	off	off	off	off	off
Fluoride	mg/L	1.5	1.5	MAC	0.09	off	off	off	off	off	off	off	off
Sulfate	mg/L	500	</=500	AO	34.2	off	off	off	off	off	off	off	off
Nitrate (N)	mg/L	10	10	MAC	<0.01	off	off	off	off	off	off	off	off
Nitrite (N)	mg/L	1			<0.01	off	off	off	off	off	off	off	off
T-Aluminum	mg/L		0.2	MAC	0.158	off	off	off	off	off	off	off	off
T-Antimony	mg/L		0.006	MAC	<0.0002	off	off	off	off	off	off	off	off
T-Arsenic	mg/L	0.025	0.025	IMAC	0.0005	off	off	off	off	off	off	off	off
T- Barium	mg/L	1.0	1	MAC	0.105	off	off	off	off	off	off	off	off
T-Boron	mg/L	5.0	5	MAC	0.036	off	off	off	off	off	off	off	off
T-Cadmium	mg/L	0.005			<0.0001	off	off	off	off	off	off	off	off
T-Calcium	mg/L				77.1	off	off	off	off	off	off	off	off
T-Chromium	mg/L	0.05	0.05	MAC	<0.0005	off	off	off	off	off	off	off	off
T-Copper	mg/L	1.0	</=1	MAC	0.004	off	off	off	off	off	off	off	off
T-Iron	mg/L	0.3	</=0.3	AO	**2.2**	off	off	off	off	off	off	off	off
T-Lead	mg/L	0.01	0.01	MAC	0.0011	off	off	off	off	off	off	off	off
T-Magnesium	mg/L		</=700	AO	2.9	off	off	off	off	off	off	off	off
T-Manganese	mg/L	0.05	</=0.05	AO	**0.149**	off	off	off	off	off	off	off	off
T-Mercury	mg/L	0.001	0.001	MAC	<0.0002	off	off	off	off	off	off	off	off
T-Potassium	mg/L				0.7	off	off	off	off	off	off	off	off
T-Selenium	mg/L	0.01	0.01	MAC	0.0002	off	off	off	off	off	off	off	off
T-Sodium	mg/L	200	</=200	AO	9.2	off	off	off	off	off	off	off	off
T-Uranium	mg/L	0.1	0.1	MAC	<0.0005	off	off	off	off	off	off	off	off
T-Zinc	mg/L	5	<5	AO	0.409	off	off	off	off	off	off	off	off
						off	off	off	off	off	off	off	off
Total Coli	cfu/100ml	<1	<1	cfu/100ml		off	off	off	off	off	off	off	off
Fecal Coli	cfu/100ml	<1	<1	cfu/100ml		off	off	off	off	off	off	off	off

REGIONAL DISTRICT OF NANAIMO

Nanoose Well Water Analysis Results

Nanoose Well # 6: 2500 Nuttal Drive

Canadian Drinking Water Guidelines Package

MAC=Maximum Acceptable Concentration IMAC= Interim Maximum Acceptable Concentration AO= Asthetic Objective.
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines
* raw well water

water SMART zero waste

Parameter	Water Quality Guidelines				16-Oct	22-Oct	26-Oct	19-Oct	24-Oct	24-Oct	20-Oct	26-Oct	
	Units	CDWG	BCAWQG		2002	2003	2004	2005	2006	2007	2008	2009	2010
Color	CU	15	</=15	AO		<5	<5	37	10	<5	11	82	
Conductivity	µS		700	MAC		737	467	430	506	560	436	445	
Total Dissolved Solids	mg/L	500	</=500	AO		467	290	300	320	447	268	278	
Hardness (CaCO3)	mg/L	80-100	</=500	AO		330	220	190	260	270	190	190	
pH	pH units	6.5-8.5	6.5-8.5	AO		7.24	7.5	7.8	7.5	7.96	7.51	7.6	
Turbidity	NTU's	5	1	MAC		1.55	2.4	26.7	2.2	1.1	2.8	19.1	
Alkalinity	mg/L					200	200	190	180	190	200	180	
Chloride	mg/L	250	</=250	AO		7.6	7.5	7.1	8.7	7.7	7.7	8.4	
Fluoride	mg/L	1.5	1.5	MAC		<0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Sulfate	mg/L	500	</=500	AO		189	47.6	27.8	66.5	80.4	29.1	32.3	
Nitrate (N)	mg/L	10	10	MAC		<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Nitrite (N)	mg/L	1				<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
T-Aluminum	mg/L		0.2	MAC		0.115	0.008	0.945	<0.005	<0.005	<0.005	0.027	
T-Antimony	mg/L		0.006	MAC		0.0009	<0.0002	0.0003	<0.0002	<0.0002	<0.0002	<0.0002	
T-Arsenic	mg/L	0.025	0.025	IMAC		0.0006	0.0004	0.0018	0.0004	0.0005	0.0003	0.0011	
T- Barium	mg/L	1.0	1	MAC		0.133	0.106	0.125	0.089	0.109	0.096	0.098	
T-Boron	mg/L	5.0	5	MAC		0.093	0.147	0.179	0.055	0.081	0.166	0.131	
T-Cadmium	mg/L	0.005				0.0006	<0.00001	0.00011	<0.00001	0.00002	<0.00001	0.00034	
T-Calcium	mg/L					118	79.7	70.2	96	101	70	71.7	
T-Chromium	mg/L	0.05	0.05	MAC		<0.0005	<0.0005	0.0015	<0.0005	<0.0005	<0.0004	<0.0004	
T-Copper	mg/L	1.0	</=1	MAC		0.004	0.003	0.022	<0.001	0.01	0.022	0.02	
T-Iron	mg/L	0.3	</=0.3	AO		0.2	0.3	3.4	0.2	0.2	0.19	1.27	
T-Lead	mg/L	0.01	0.01	MAC		0.0011	0.0016	0.024	0.0001	0.0015	0.0016	0.021	
T-Lithium	mg/L											0.006	
T-Magnesium	mg/L		</=700	AO		8.7	4.2	3.9	4.4	4.8	3.61	3.5	
T-Manganese	mg/L	0.05	</=0.05	AO		0.054	0.076	0.078	0.102	0.108	0.0554	0.0585	
T-Mercury	mg/L	0.001	0.001	MAC		<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	<0.01	<0.01	
T-Nickle	mg/L											0.001	
T-Phosphorus	mg/L											0.015	
T-Potassium	mg/L					1.6	1.3	1.3	0.9	1.1	0.9	1	
T-Selenium	mg/L	0.01	0.01	MAC		0.0013	<0.0002	<0.0002	0.0004	0.0003	<0.0006	<0.0006	
T-Silver	mg/L											<0.00001	
T-Sodium	mg/L	200	</=200	AO		14.6	18.9	21.9	10.4	12.1	16.9	15.7	
T-Uranium	mg/L	0.1	0.1	MAC		0.0012	<0.0005	<0.0005	<0.0005	<0.0005	<0.0004	<0.0004	
T-Zinc	mg/L	5	<5	AO		0.068	0.220	0.503	0.06	0.155	0.084	1.14	
Total Coliform	cfu/100ml	<1	<1	cfu/100ml			*140	*>200	*20	*2	*12.4	45.3	
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1	
E.coli	cfu/100ml	<1	<1	cfu/100ml					<1	<1	<1	<1	

Note: Total coliforms can be an indicator of adverse water quality if the result in the re-sample is confirmed positive. (United States Environmental Protection Agency (EPA), 2008) RDN Water samples are always tested for Fecal coliform bacteria at the same time as Total coliforms to rule out the presence of harmful pathogens.

*Resampled and had <1 for all Coliforms

REGIONAL DISTRICT OF NANAIMO

West Bay Well Water Analysis Results

West Bay Well # 3: 2473 Nanoose Road

Canadian Drinking Water Guidelines Package

MAC=Maximum Acceptable Concentration IMAC= Interim Maximum Acceptable Concentration AO= Asthetic Objective
CDWG=Canadian Drinking Water Guidelines BCAWQG=British Columbia Approved Water Quality Guidelines
Red font indicates non-compliance with Canadian Drinking Water Guidelines
* raw well water

water SMART zero waste

Parameter	Water Quality Guidelines				16-Oct	22-Oct	26-Oct	19-Oct	24-Oct	23-Oct	23-Oct	21-Oct	
	Units	CDWG	BCAWQG		2002	2003	2004	2005	2006	2007	2008	2009	2010
Color	CU	15	</=15	AO	**18**	13	11	14	8	14	**35**	**36**	
Conductivity	µS		700	MAC	310	308	304	301	296	301	301	314	
Total Dissolved Solids	mg/L	500	</=500	AO	160	187	160	184	150	200	198	204	
Hardness (CaCO3)	mg/L	80-100	</=500	AO	**106**	**109**	**73**	**110**	100	**110**	**110**	100	
pH	pH units	6.5-8.5	6.5-8.5	AO	7.72	7.61	7.8	8	7.9	8.12	8.06	7.8	
Turbidity	NTU's	5	1	MAC	0.76	0.76	1.1	0.7	0.6	0.6	1.8	0.5	
Alkalinity	mg/L				144	160	150	150	150	140	140	140	
Chloride	mg/L	250	</=250	AO	6.76	6.7	8.1	6.5	7	7.4	8.2	12.7	
Fluoride	mg/L	1.5	1.5	MAC	0.17	<0.6	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	
Sulfate	mg/L	500	</=500	AO	0.28	2.1	<2	<2	<2.0	<2.0	<2.0	<2.0	
Nitrate (N)	mg/L	10	10	MAC	<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Nitrite (N)	mg/L	1			<0.01	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
T-Aluminum	mg/L		0.2	MAC	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
T-Antimony	mg/L		0.006	MAC	<0.0002	<0.0002	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	<0.0002	
T-Arsenic	mg/L	0.025	0.025	IMAC	0.0004	0.0004	0.0003	0.0004	0.0003	0.0003	0.0004	0.0006	
T- Barium	mg/L	1.0	1	MAC	0.006	0.006	0.005	0.006	0.006	0.006	0.006	0.005	
T-Boron	mg/L	5.0	5	MAC	0.049	0.064	0.059	0.071	0.066	0.073	0.067	0.064	
T-Cadmium	mg/L	0.005			<0.0001	<.00001	<0.00001	<0.00001	<0.00001	0.00012	0.00002	<0.00001	
T-Calcium	mg/L				26.1	27.2	18.6	27.7	25.8	27.2	28.4	25.6	
T-Chromium	mg/L	0.05	0.05	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0004	<0.0004	
T-Copper	mg/L	1.0	</=1	MAC	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.002	0.008	
T-Iron	mg/L	0.3	</=0.3	AO	**0.6**	**0.5**	**0.4**	**0.5**	**0.5**	**0.5**	**0.61**	**0.49**	
T-Lead	mg/L	0.01	0.01	MAC	0.0002	0.0002	0.0004	0.0002	0.0001	<0.0001	0.0014	<0.0001	
T-Lithium	mg/L											<0.001	
T-Magnesium	mg/L		</=700	AO	9.9	10.1	6.5	9.4	9	9.4	10.3	9.44	
T-Manganese	mg/L	0.05	</=0.05	AO	**0.201**	**0.19**	**0.132**	**0.202**	**0.188**	**0.203**	**0.199**	**0.206**	
T-Mercury	mg/L	0.001	0.001	MAC	<0.0002	<0.0002	<0.0002	<0.0001	<0.0001	<0.0001	<.01	<0.01	
T-Nickle	mg/L											<0.001	
T-Phosphorus	mg/L											0.765	
T-Potassium	mg/L				2.2	2.5	1.6	2.4	2.3	2.4	2.4	2.4	
T-Selenium	mg/L	0.01	0.01	MAC	<0.0002	<0.0002	0.0002	<0.0002	<0.0002	0.0002	<0.0006	<0.0006	
T-Silver	mg/L											<0.00001	
T-Sodium	mg/L	200	</=200	AO	19.6	20.1	14.2	21.6	20	20.8	22	25.5	
T-Uranium	mg/L	0.1	0.1	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0004	<0.0004	
T-Zinc	mg/L	5	<5	AO	0.008	0.009	0.001	0.004	0.006	0.007	0.114	0.011	
Total Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1.0	
Fecal Coliform	cfu/100ml	<1	<1	cfu/100ml			<1	<1	<1	<1	<1	<1.0	
E.coli	cfu/100ml	<1	<1	cfu/100ml					<1	<1	<1	<1.0	

APPENDIX C

EMERGENCY RESPONSE PLAN

* Emergency Response Plan not included in Public Copy.