

Nanoose Water Service Area

Introduction

The Nanoose Water Service Area was established in 1980 when the Eagle Heights Water Service Area was merged with the Beachcomber/Seacrest/Dorcas Point Water service Area. Today, the Nanoose Water Service area comprises the majority of the properties within 300 metres of the ocean on the north shore of the Nanoose Peninsula. There are currently 815 residential connections and 5 commercial connections to the water system. The water source for the Nanoose Water Service Area comes from a series of groundwater wells located nearby. The water source is chlorinated and stored in a reservoir. Nanoose is now included in the Nanoose Bay Peninsula Water Service Area which includes all seven systems on the Nanoose Peninsula.

Detailed Description

Well

(see attachment for well locations)

Well #/ Name	Well Depth	Wellhead protection?	Treated or Untreated by Chlorine
#2	47.7 m	Yes	Treated
#3	53 m	Yes	Treated
#4	70 m	Yes	Treated

Reservoirs

There are three reservoirs. Two are constructed of concrete and the third is constructed of metal. Total capacity of the reservoirs is approximately 300,000 gallons.

Distribution System

The distribution system consists of a mix of 200mm, 150mm and 100mm supply lines. Fire Hydrants are included in the system.

Maintenance Programs

Sources

Regular maintenance of the well head areas to ensure the risk of contamination or systems failure is reduced or eliminated.

Reservoirs

Reservoirs are flushed and cleaned every two years.

Distribution System

Water mains are flushed annually.

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Current Year Planned Maintenance / Improvements

Fire Hydrant maintenance.

Water Sampling and Testing Program

See attached for all water testing reports.

The distribution system is tested using the following schedule.

Timing	Location	Tests
Weekly	In house laboratory (RDN)	Fecal Coliforms Total Coliforms Temperature PH Chlorine Total Dissolved Solids Salinity Conductivity Iron Manganese
Weekly (Health Dept. Required)	Independent Laboratory*	Fecal Coliforms Total Coliforms
Monthly	Independent Laboratory*	Chloride
Quarterly	Independent Laboratory*	Chloride Conductivity Sodium Total Dissolved Solids
Annual	Independent Laboratory*	Complete potability testing in both wells in October. Complete potability testing in system water (residence).

* North Island Laboratory.

Source Transmission and Distribution System Water Quality

See attached lab analysis sheets

Emergency Response Plan

The Nanoose Water Local Service Area Emergency response plan is attached for information. This document is updated annually to ensure contact and other relevant information is in place. The emergency Response Plan for part of the overall RDN's Emergency Response Plan Document.

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Cross Connection Control Program

Cross connection control is largely achieved through the installation of dual check valves at every metering point in the system. A Cross Connection Control is being developed in 2007.

Water Quality Inquires and Complaints

Inquires were of a general nature related to the delivery of potable water to serviced properties.