

# Melrose Terrace Water Service Area

## Introduction

The Melrose Terrace Water Service Area was acquired by the RDN in April 2005. It was previously known as the Melrose Terrace Strata Plan VIS3747 water system. The new water service area is comprised of 28 residential properties on Melrose Road located near the Alberni Highway South West of Coombs. The water source for the Melrose Terrace Water Service Area will continue to come from one groundwater well located nearby. The water is stored in a single reservoir.

## Detailed Description

### Well

The well is located on Melrose Road.

| Well #/ Name | Well Depth | Wellhead protection? | Treated or Untreated by Chlorine |
|--------------|------------|----------------------|----------------------------------|
| #1           | 26.2 m     | Yes                  | Treated                          |

### Reservoirs

There is one reservoir located on Melrose Road. It has a capacity of approximately 30,000 gallons.

### Distribution System

The distribution system consists of 150mm PVC supply lines. Fire Hydrants are not connected to 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

Reservoir will be cleaned by divers in the fall of 2006.

### Distribution System

Water mains will be flushed once the reservoir has been cleaned.

## Current Year Planned Maintenance / Improvements

Improved well head protection, added perimeter fencing and security alarms. The filter system was serviced and the pump house piping was upgraded.

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## 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<br>Total Coliforms<br>Temperature<br>PH<br>Chlorine<br>Total Dissolved Solids<br>Salinity<br>Conductivity<br>Iron<br>Manganese |
| Weekly (Health Dept. Required) | Independent Laboratory*   | Fecal Coliforms<br>Total Coliforms   |
| Monthly                        | Independent Laboratory*   | Chloride   |
| Quarterly                      | Independent Laboratory*   | Chloride<br>Conductivity<br>Sodium<br>Total Dissolved Solids   |
| Annual                         | Independent Laboratory*   | Complete potability testing in both wells in October.<br>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 Melrose Terrace 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.

# **Melrose Terrace Water Service Area**

## **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.