

**DRINKING WATER SYSTEM ANNUAL REPORT**

Reporting Period:	January 1 <sup>st</sup> to December 31 <sup>st</sup> , 2017
Water System:	Coal Harbour Water System
Water System Owner	Regional District of Mount Waddington
Primary Contact Name:	Patrick Donaghy
Phone Number	250 956-3301
Email	pdonaghy@rdmw.bc.ca

**Water Supply System Description**

Source of Raw Water

Deep Well       Shallow Well       Surface Water       Other

Does Drinking Water System have Primary Disinfection?       Yes       No

Chlorination       Ultraviolet Light       Ozone       Other

Does the Drinking Water System have Secondary Disinfection?       Yes       No

Chlorination       Ultraviolet Light

Does the Drinking Water System have Filtration?       Yes       No

Cartridge Filter(s)       Carbon Filter       Sand Filtration       Reverse Osmosis       Other

**Public Reporting**

Emergency Response & Contingency Plan (ERCP)

Is the ERCP up to date?       Yes       No

Means of informing the system users of the ERCP

Hand Delivered       Bulletin Board       Newspaper       Utility Bill Insert       Website  
 Other

**Drinking Water System Annual Report**

Drinking Water System Annual Report

Means of informing the system users of the Annual Report

Hand Delivered       Bulletin Board       Newspaper       Utility Bill Insert       Website  
 Other

**Compliance with Operating Permit**

Conditions of Operating Permit

In compliance with Operating Permit       Yes       No

**Bacteriological Testing and Drinking Water Protection Regulation Water Quality Standards**

Number of Bacteriological samples were collected during the reporting period: 88	
Minimum required sampling frequency for the system:	
Minimum required sampling achieved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Comments:	
Bacteriological summary attached to the report? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

**Water Quality Standards for Potable Water**

Parameter	Standard	Meet Standard
Escherichia coli (for all samples)	No detectable Escherichia coli per 100 ml	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Total Coliform Bacteria (if only 1 sample collected in a 30 day period)	No detectable total coliform bacteria per 100 ml	<input type="checkbox"/> Yes <input type="checkbox"/> No
Total Coliform Bacteria (if more than 1 sample collected in a 30 day period)	No more than 10% of samples contain total coliform bacteria, and No sample has more than 10 total coliform bacteria per 100 ml	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Recorded results where water system did not meet of the above Drinking Water Protection Regulation standards:

**Chemical Sampling Completed During This Reporting Period**

Was any chemical sampling conducted during the reporting period?  Yes  No  
 If Yes, attach list of chemical results to this report.

If no, when were the last chemical samples conducted for this system?  Don't Know  
 If Yes, attach list of chemical results  List Attached

Next scheduled full chemical test: 2019

**Test results that did not meet Guidelines for Chemical Drinking Water Quality**

Parameter	Result	Corrective Action/Treatment/Comments

**Additional Testing**

Does the system have analyzers for continuous monitoring?  Yes  No

If yes, check all boxes that apply:

Chlorine  Turbidity  Other (details)

Are results available on request?  Yes  No

If any additional testing or sampling was conducted, record results in the table below, attach additional sheets if necessary.

Additional Test & Reason for Sampling	Corrective Action Taken

**Water Quality Complaints**

Were there any water quality complaints in this reporting period (e.g. taste, odour, colour, etc.)  Yes  No

If yes, complete the table below; attach additional sheets if necessary.

Date	Water Quality Complaint	Corrective Action/Treatment

**Operational Problems**

Were there any operational problems during this reporting period? (e.g. insufficient water supply, malfunction of disinfection equipment, line breaks, elevated turbidity, etc.)  Yes  No

If yes, complete the table below, attach additional sheets if necessary.

Date	Type of Operational Problem	Corrective Action/Treatment

**Major Upgrades/Repairs & Expenses**

Were there any major upgrades/repairs or any major costs incurred during this reporting period?  Yes  No

If yes, complete the table below, attach additional sheets if necessary.

Major Upgrades/Expenses	Details
Improvements required by DWO	
Additions/changes to system	
Purchase or install new equipment	
Equipment repair or replacement	
Annual maintenance of system	
Specialist report	
Other	

**Major Upgrades/Repairs & Expenses**

Are there any plans for future improvements?  Yes  No

If yes, complete the table below, attach additional sheets if necessary.

Future Upgrades or Improvements	Estimated Date of Completion
Upgrade/Replacement of Process Logic Control (PLC) for Pump House, Water Treatment Plant and Reservoirs	March 31, 2019
Installation of PLC controlled valve downstream of reservoirs to limit risk of total supply loss if major distribution failure were to occur.	March 31, 2019

Date Completed: March 30, 2017  
Completed By: Patrick Donaghy & Paul Getman

# COAL HARBOUR WATER

**Facility Location:**

Coal Harbour Road  
Coal Harbour

**Facility Information:**

Facility Type: 15-300 (DWC)

**Facility Sampling History:**

<u>Location</u>	<u>Date</u>	<u>Total Coliform</u>	<u>E. Coli</u>
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	23-Jan-2018	L1	L1
Sewage Plant, Coal Harbour, BC	23-Jan-2018	L1	L1
Wharf, Coal Harbour Govt Wharf, Coal Harbour	23-Jan-2018	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	16-Jan-2018	L1	L1
Sewage Plant, Coal Harbour, BC	16-Jan-2018	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	9-Jan-2018	L1	L1
Sewage Plant, Coal Harbour, BC	9-Jan-2018	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	2-Jan-2018	L1	L1
Sewage Plant, Coal Harbour, BC	2-Jan-2018	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	19-Dec-2017	L1	L1
Sewage Plant, Coal Harbour, BC	19-Dec-2017	L1	L1
Wharf, Coal Harbour Govt Wharf, Coal Harbour	19-Dec-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	12-Dec-2017	L1	L1
Sewage Plant, Coal Harbour, BC	12-Dec-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	5-Dec-2017	L1	L1
Sewage Plant, Coal Harbour, BC	5-Dec-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	28-Nov-2017	L1	L1
Sewage Plant, Coal Harbour, BC	28-Nov-2017	L1	L1
Wharf, Coal Harbour Govt Wharf, Coal Harbour	28-Nov-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	21-Nov-2017	L1	L1
Sewage Plant, Coal Harbour, BC	21-Nov-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	14-Nov-2017	L1	L1
Sewage Plant, Coal Harbour, BC	14-Nov-2017	L1	L1
Wharf, Coal Harbour Govt Wharf, Coal Harbour	14-Nov-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	7-Nov-2017	L1	L1
Sewage Plant, Coal Harbour, BC	7-Nov-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	31-Oct-2017	L1	L1
Sewage Plant, Coal Harbour, BC	31-Oct-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	17-Oct-2017	L1	L1
Sewage Plant, Coal Harbour, BC	17-Oct-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	10-Oct-2017	L1	L1
Sewage Plant, Coal Harbour, BC	10-Oct-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	26-Sep-2017	L1	L1
Sewage Plant, Coal Harbour, BC	26-Sep-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	19-Sep-2017	L1	L1
Sewage Plant, Coal Harbour, BC	19-Sep-2017	L1	L1
Wharf, Coal Harbour Govt Wharf, Coal Harbour	19-Sep-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	12-Sep-2017	L1	L1
Sewage Plant, Coal Harbour, BC	12-Sep-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	5-Sep-2017	L1	L1

Show:  results per page

## COAL HARBOUR WATER

### Facility Location:

Coal Harbour Road  
Coal Harbour

### Facility Information:

Facility Type: 15-300 (DWC)

### Facility Sampling History:

<u>Location</u>	<u>Date</u>	<u>Total Coliform</u>	<u>E. Coli</u>
Sewage Plant, Coal Harbour, BC	5-Sep-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	22-Aug-2017	L1	L1
Sewage Plant, Coal Harbour, BC	22-Aug-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	8-Aug-2017	L1	L1
Sewage Plant, Coal Harbour, BC	8-Aug-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	1-Aug-2017	L1	L1
Sewage Plant, Coal Harbour, BC	1-Aug-2017	L1	L1
Wharf, Coal Harbour Govt Wharf, Coal Harbour	1-Aug-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	18-Jul-2017	L1	L1
Sewage Plant, Coal Harbour, BC	18-Jul-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	11-Jul-2017	L1	L1
Sewage Plant, Coal Harbour, BC	11-Jul-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	27-Jun-2017	L1	L1
Sewage Plant, Coal Harbour, BC	27-Jun-2017	L1	L1
Wharf, Coal Harbour Govt Wharf, Coal Harbour	27-Jun-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	20-Jun-2017	L1	L1
Sewage Plant, Coal Harbour, BC	20-Jun-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	13-Jun-2017	L1	L1
Sewage Plant, Coal Harbour, BC	13-Jun-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	30-May-2017	L1	L1
Sewage Plant, Coal Harbour, BC	30-May-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	23-May-2017	L1	L1
Sewage Plant, Coal Harbour, BC	23-May-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	9-May-2017	L1	L1
Sewage Plant, Coal Harbour, BC	9-May-2017	L1	L1
Wharf, Coal Harbour Govt Wharf, Coal Harbour	9-May-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	2-May-2017	L1	L1
Sewage Plant, Coal Harbour, BC	2-May-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	18-Apr-2017	L1	L1
Sewage Plant, Coal Harbour, BC	18-Apr-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	11-Apr-2017	L1	L1
Sewage Plant, Coal Harbour, BC	11-Apr-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	28-Mar-2017	L1	L1
Sewage Plant, Coal Harbour, BC	28-Mar-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	21-Mar-2017	L1	L1
Sewage Plant, Coal Harbour, BC	21-Mar-2017	L1	L1
Wharf, Coal Harbour Govt Wharf, Coal Harbour	21-Mar-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	14-Mar-2017	L1	L1
Sewage Plant, Coal Harbour, BC	14-Mar-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	28-Feb-2017	L1	L1

Show:  results per page

## COAL HARBOUR WATER

### Facility Location:

Coal Harbour Road  
Coal Harbour

### Facility Information:

Facility Type: 15-300 (DWC)

### Facility Sampling History:

<u>Location</u>	<u>Date</u>	<u>Total Coliform</u>	<u>E. Coli</u>
Sewage Plant, Coal Harbour, BC	28-Feb-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	21-Feb-2017	L1	L1
Sewage Plant, Coal Harbour, BC	21-Feb-2017	L1	L1
Wharf, Coal Harbour Govt Wharf, Coal Harbour	21-Feb-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	14-Feb-2017	L1	L1
Sewage Plant, Coal Harbour, BC	14-Feb-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	7-Feb-2017	L1	L1
Sewage Plant, Coal Harbour, BC	7-Feb-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	31-Jan-2017	L1	L1
Sewage Plant, Coal Harbour, BC	31-Jan-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	17-Jan-2017	L1	L1
Sewage Plant, Coal Harbour, BC	17-Jan-2017	L1	L1
Wharf, Coal Harbour Govt Wharf, Coal Harbour	17-Jan-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	10-Jan-2017	L1	L1
Sewage Plant, Coal Harbour, BC	10-Jan-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	3-Jan-2017	L1	L1
Sewage Plant, Coal Harbour, BC	3-Jan-2017	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	13-Dec-2016	L1	L1
Sewage Plant, Coal Harbour, BC	13-Dec-2016	L1	L1
Wharf, Coal Harbour Govt Wharf, Coal Harbour	13-Dec-2016	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	29-Nov-2016	L1	L1
Sewage Plant, Coal Harbour, BC	29-Nov-2016	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	22-Nov-2016	L1	L1
Sewage Plant, Coal Harbour, BC	22-Nov-2016	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	15-Nov-2016	L1	L1
Sewage Plant, Coal Harbour, BC	15-Nov-2016	L1	L1
Wharf, Coal Harbour Govt Wharf, Coal Harbour	15-Nov-2016	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	1-Nov-2016	L1	L1
Sewage Plant, Coal Harbour, BC	1-Nov-2016	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	3-Oct-2016	L1	L1
Sewage Plant, Coal Harbour, BC	3-Oct-2016	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	28-Sep-2016	NS	
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	28-Sep-2016	NS	
Sewage Plant, Coal Harbour, BC	28-Sep-2016	NS	
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	26-Sep-2016	L1	L1
Sewage Plant, Coal Harbour, BC	26-Sep-2016	L1	L1
Wharf, Coal Harbour Govt Wharf, Coal Harbour	26-Sep-2016	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	12-Sep-2016	L1	L1
Sewage Plant, Coal Harbour, BC	12-Sep-2016	L1	L1
Quatsino Band Office, Quatsino Reserve, Coal Harbour Road, Coal Harbour, B.C.	30-Aug-2016	L1	L1

Show:  results per page