



## Honeymoon Bay Water System Annual Report

Reporting Period:	January 1 – December 31, 2017
Operating Permit Number:	1310926
Drinking Water System Owner:	Cowichan Valley Regional District
Drinking Water System Contact:	
Name:	<u>Brian Dennison</u>
Phone No.:	<u>250-746-2532</u>
Email:	<u>bdennison@cvrld.bc.ca</u>

**1. Microbiological testing completed during this reporting period:**

- a. Bacteriological results attached to this report.
- b. Adverse bacteriological results:    None detected  
     Listed in table below:

**Adverse Results**

Date	Total Coliform	E. Coli	Reason	Corrective Action
8-Aug-17	1	0		Resample

**2. Chemical results for this reporting period:**

- a. Most recent chemical analysis attached to this report.
- b. chemical parameters listed in *The Guidelines for Canadian Drinking Water Quality ("the Guidelines")* are:
  - all within the GCDWQ
  - above the GCDWQ and are listed below:

**Parameters above the Guidelines:**

Parameter	Result	Max. Acceptable Concentration	Aesthetic Objective	Treatment/Corrective Action



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3. Summarize additional testing and sampling carried out in accordance with the requirement of a Water Source approval, Written Order or as per the conditions of your *Operating Permit*.

- no additional testing
- additional testing listed below:

**Additional testing:**

Description of parameter & reason for sampling	Health parameter or non-health parameter	Corrective action necessary (y/n?)	Corrective Action Taken

4. **Water Quality Complaints:**

**During the course of the year, the water system:**

- did not receive water quality complaints (ie. taste, odour, colour, etc.)
- received water quality complaints and are listed below:

**Water Quality Complaints:**

Date	Water Quality Complaint	Corrective action taken

5. **Adverse results: total number of adverse results during this reporting period for insufficient water supply, malfunction of disinfection equipment or elevated turbidity:**

- No adverse results
- Adverse results listed below

Incident Date	Corrective Action	Corrected by



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6. **Description of the system:**

**Sources of raw water:**

- Groundwater
- Surface water
- Other (specify): \_\_\_\_\_

**Does the drinking water system have disinfection?**

Yes  No

**Disinfection methods (check applicable boxes)**

- Chlorination
- Ultraviolet light
- Ozonation
- Other (specify) \_\_\_\_\_

**Does the drinking water system have treatment?**  Yes  No

**Treatment type (check applicable boxes):**

- Particulate cartridge filters
- Membrane filtration
- Carbon filter
- Sand filtration
- Reverse Osmosis
- Other (specify) \_\_\_\_\_

7. **Major expenses incurred during the period covered by the report:**

**To purchase or install required equipment:**

**To repair equipment:** Sutton Creek water main

**To replace equipment:** \_\_\_\_\_

**To complete annual maintenance of system: (*system flushing, replacement of carbon filters, etc.*):** system flushing, hydrant maintenance, genset serviced.

**To complete specialist report (specify):**

8. **Further communication with users:**

a. **Indicate how you notified system users that your annual report is available, and is free of charge:**

- hand delivered
- public access/notice via web
- public access/notice via government office
- public access/notice via newspaper
- public access/notice via bill stuffer
- public access/notice via other method ( specify)



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**b. Improvements or remedial actions required by the Drinking Water Officer**

- no action required
- Drinking Water Officer inspection report attached to report
- actions required by Drinking Water Officer listed below:

**Improvements/Remedial Actions:**

Required Action	Completion Date

**c. Future water system improvements:**

- no improvements planned
- improvements listed below:

**Future Improvements:**

Future Plans	Planned Completion Date
New well source	2018-2019

**d. Emergency Response Plan can be accessed by:**

- posting on web
- posting at nearest government office
- contacting water system owner
- other (specify): CVRD Engineering Services, 175 Ingram Street, Duncan,  
BC



## HONEYMOON BAY WATER SYSTEM

### Facility Location:

Honeymoon Bay  
Honeymoon Bay

### Facility Information:

Facility Type: 15-300 DWC

### Facility Sampling History:

Location	Date	Total Coliform	E.Coli
S-5 6765 Park Drive, 6765 Park Drive - S-5 Honeymoon Bay	12-Dec-2017	L1	L1
S-2 6918 Beach Drive , 6918 Beach Drive S-2, Honeymoon Bay	5-Dec-2017	L1	L1
S-1 10265 South Shore Road, 10265 South Shore Road Honeymoon Bay, BC	27-Nov-2017	L1	L1
S-6 6751 Wall Street, 6751 Wall Street S-6, Honeymoon Bay, BC	21-Nov-2017	L1	L1
S-5 6765 Park Drive, 6765 Park Drive - S-5 Honeymoon Bay	15-Nov-2017	T	
S-2 6918 Beach Drive , 6918 Beach Drive S-2, Honeymoon Bay	7-Nov-2017	L1	L1
S-6 6751 Wall Street, 6751 Wall Street S-6, Honeymoon Bay, BC	25-Oct-2017	L1	L1
S-5 6765 Park Drive, 6765 Park Drive - S-5 Honeymoon Bay	17-Oct-2017	L1	L1
S-5 6765 Park Drive, 6765 Park Drive - S-5 Honeymoon Bay	17-Oct-2017	L1	L1
S-1 10265 South Shore Road, 10265 South Shore Road Honeymoon Bay, BC	11-Oct-2017	L1	L1
S-1 10265 South Shore Road, 10265 South Shore Road Honeymoon Bay, BC	3-Oct-2017	L1	L1



S-1 10265 South Shore Road, 10265 South Shore Road Honeymoon Bay, BC	26-Sep-2017	L1	L1
S-6 6751 Wall Street, 6751 Wall Street S-6, Honeymoon Bay, BC	19-Sep-2017	L1	L1
S-5 6765 Park Drive, 6765 Park Drive - S-5 Honeymoon Bay	12-Sep-2017	L1	L1
S-2 6918 Beach Drive , 6918 Beach Drive S-2, Honeymoon Bay	6-Sep-2017	L1	L1
S-1 10265 South Shore Road, 10265 South Shore Road Honeymoon Bay, BC	28-Aug-2017	L1	L1
S-6 6751 Wall Street, 6751 Wall Street S-6, Honeymoon Bay, BC	21-Aug-2017	L1	L1
S-5 6765 Park Drive, 6765 Park Drive - S-5 Honeymoon Bay	16-Aug-2017	L1	L1
S-2 6918 Beach Drive , 6918 Beach Drive S-2, Honeymoon Bay	8-Aug-2017	1	L1
S-1 10265 South Shore Road, 10265 South Shore Road Honeymoon Bay, BC	31-Jul-2017	L1	L1
S-6 6751 Wall Street, 6751 Wall Street S-6, Honeymoon Bay, BC	24-Jul-2017	L1	L1
S-5 6765 Park Drive, 6765 Park Drive - S-5 Honeymoon Bay	18-Jul-2017	L1	L1
S-2 6918 Beach Drive , 6918 Beach Drive S-2, Honeymoon Bay	11-Jul-2017	L1	L1
S-1 10265 South Shore Road, 10265 South Shore Road Honeymoon Bay, BC	5-Jul-2017	L1	L1
S-2 6918 Beach Drive , 6918 Beach Drive S-2, Honeymoon Bay	26-Jun-2017	L1	L1
S-2 6918 Beach Drive , 6918 Beach Drive S-2, Honeymoon Bay	19-Jun-2017	L1	L1
S-5 6765 Park Drive, 6765 Park Drive - S-5 Honeymoon Bay	19-Jun-2017	L1	L1
S-6 6751 Wall Street, 6751 Wall Street S-6, Honeymoon Bay, BC	12-Jun-2017	L1	L1
S-1 10265 South Shore Road, 10265 South Shore Road Honeymoon Bay, BC	6-Jun-2017	L1	L1
S-6 6751 Wall Street, 6751 Wall Street S-6, Honeymoon Bay, BC	30-May-2017	L1	L1
S-2 6918 Beach Drive , 6918 Beach Drive S-2, Honeymoon Bay	23-May-2017	L1	L1
S-2 6918 Beach Drive , 6918 Beach Drive S-2, Honeymoon Bay	16-May-2017	L1	L1
S-1 10265 South Shore Road, 10265 South Shore Road Honeymoon Bay, BC	8-May-2017	L1	L1
S-5 6765 Park Drive, 6765 Park Drive - S-5 Honeymoon Bay	1-May-2017	L1	L1



S-1 10265 South Shore Road, 10265 South Shore Road Honeymoon Bay, BC	24-Apr-2017	L1	L1
S-6 6751 Wall Street, 6751 Wall Street S-6, Honeymoon Bay, BC	18-Apr-2017	L1	L1
S-5 6765 Park Drive, 6765 Park Drive - S-5 Honeymoon Bay	10-Apr-2017	L1	L1
S-2 6918 Beach Drive , 6918 Beach Drive S-2, Honeymoon Bay	3-Apr-2017	L1	L1
S-1 10265 South Shore Road, 10265 South Shore Road Honeymoon Bay, BC	28-Mar-2017	L1	L1
S-6 6751 Wall Street, 6751 Wall Street S-6, Honeymoon Bay, BC	20-Mar-2017	L1	L1
S-5 6765 Park Drive, 6765 Park Drive - S-5 Honeymoon Bay	13-Mar-2017	L1	L1
S-2 6918 Beach Drive , 6918 Beach Drive S-2, Honeymoon Bay	6-Mar-2017	L1	L1
S-1 10265 South Shore Road, 10265 South Shore Road Honeymoon Bay, BC	27-Feb-2017	L1	L1
S-6 6751 Wall Street, 6751 Wall Street S-6, Honeymoon Bay, BC	21-Feb-2017	L1	L1
S-5 6765 Park Drive, 6765 Park Drive - S-5 Honeymoon Bay	14-Feb-2017	L1	L1
S-2 6918 Beach Drive , 6918 Beach Drive S-2, Honeymoon Bay	7-Feb-2017	L1	L1
S-1 10265 South Shore Road, 10265 South Shore Road Honeymoon Bay, BC	31-Jan-2017	L1	L1
S-6 6751 Wall Street, 6751 Wall Street S-6, Honeymoon Bay, BC	23-Jan-2017	L1	L1
S-5 6765 Park Drive, 6765 Park Drive - S-5 Honeymoon Bay	17-Jan-2017	L1	L1
S-2 6918 Beach Drive , 6918 Beach Drive S-2, Honeymoon Bay	10-Jan-2017	L1	L1
S-1 10265 South Shore Road, 10265 South Shore Road Honeymoon Bay, BC	3-Jan-2017	L1	L1

<b>Alkalinity (total, as CaCO3)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	23.8 mg/L	Well-tap on inlet from well in TB
<b>Aluminum (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.010 mg/L	Well-tap on inlet from well in TB
<b>Ammonia (total, as N)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.0050 mg/L	Well-tap on inlet from well in TB
<b>Antimony (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.00050 mg/L	Well-tap on inlet from well in TB
<b>Arsenic (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.00010 mg/L	Well-tap on inlet from well in TB
<b>Background Bacteria</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 1 CFU/100ml	Well-tap on inlet from well in TB
<b>Barium (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.010 mg/L	Well-tap on inlet from well in TB
<b>Beryllium (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.0050 mg/L	Well-tap on inlet from well in TB
<b>Bismuth (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.20 mg/L	Well-tap on inlet from well in TB
<b>Boron (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.10 mg/L	Well-tap on inlet from well in TB
<b>Bromide</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.050 mg/L	Well-tap on inlet from well in TB



<b>Cadmium (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.00020 mg/L	Well-tap on inlet from well in TB
<b>Calcium (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	8.18 mg/L	Well-tap on inlet from well in TB
<b>Chloride</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	3.08 mg/L	Well-tap on inlet from well in TB
<b>Chromium (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.0020 mg/L	Well-tap on inlet from well in TB
<b>Cobalt (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.010 mg/L	Well-tap on inlet from well in TB
<b>Colour</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 5.0 TCU	Well-tap on inlet from well in TB
<b>Conductivity</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	61.4 uS/cm	Well-tap on inlet from well in TB
<b>Copper (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.0010 mg/L	Well-tap on inlet from well in TB
<b>Escherichia coli / E. coli (counts)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 1 counts/100ml	Well-tap on inlet from well in TB
<b>Fecal Coliforms (counts)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 1 counts/100ml	Well-tap on inlet from well in TB
<b>Fluoride</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.020 mg/L	Well-tap on inlet from well in TB
<b>Hardness (total, as CaCO3)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	24.0 mg/L	Well-tap on inlet from well in TB

Heterotrophic Plate Count / HPC		Sampling Point Name
08/16/2017 11:30	< 100 CFU/100ml	Well-tap on inlet from well in TB
Iron (total)		Sampling Point Name
08/16/2017 11:30	< 0.030 mg/L	Well-tap on inlet from well in TB
Iron Bacteria (MPN / PA)		Sampling Point Name
08/16/2017 11:30	SC	Well-tap on inlet from well in TB
Langelier Index		Sampling Point Name
08/16/2017 11:30	-1.6	Well-tap on inlet from well in TB
Langelier Index (@ 20 C)		Sampling Point Name
08/16/2017 11:30	10.4	Well-tap on inlet from well in TB
Lead (total)		Sampling Point Name
08/16/2017 11:30	< 0.00050 mg/L	Well-tap on inlet from well in TB
Lithium (total)		Sampling Point Name
08/16/2017 11:30	< 0.010 mg/L	Well-tap on inlet from well in TB
Magnesium (total)		Sampling Point Name
08/16/2017 11:30	0.87 mg/L	Well-tap on inlet from well in TB
Manganese (total)		Sampling Point Name
08/16/2017 11:30	< 0.0020 mg/L	Well-tap on inlet from well in TB
Mercury (total)		Sampling Point Name
08/16/2017 11:30	< 0.00020 mg/L	Well-tap on inlet from well in TB
Molybdenum (total)		Sampling Point Name
08/16/2017 11:30	< 0.030 mg/L	Well-tap on inlet from well in TB
Nickel (total)		Sampling Point Name
08/16/2017 11:30	< 0.050 mg/L	Well-tap on inlet from well in TB

<b>Nitrate (as N)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	0.0566 mg/L	Well-tap on inlet from well in TB
<b>Nitrate + Nitrite (as N)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	0.0566 mg/L	Well-tap on inlet from well in TB
<b>Nitrite (as N)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.0010 mg/L	Well-tap on inlet from well in TB
<b>pH</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	7.54	Well-tap on inlet from well in TB
08/16/2017 11:30	7.3	Well-tap on inlet from well in TB
<b>Phosphorus (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.30 mg/L	Well-tap on inlet from well in TB
<b>Potassium (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	0.15 mg/L	Well-tap on inlet from well in TB
<b>Selenium (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.0010 mg/L	Well-tap on inlet from well in TB
<b>Silicon (total, as Si)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	3.31 mg/L	Well-tap on inlet from well in TB
<b>Silver (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.010 mg/L	Well-tap on inlet from well in TB
<b>Sodium (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	5.0 mg/L	Well-tap on inlet from well in TB
<b>Strontium (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	0.0293 mg/L	Well-tap on inlet from well in TB

<b>Sulfate Reducing Bacteria</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	SC	Well-tap on inlet from well in TB
<b>Sulphate</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	2.08 mg/L	Well-tap on inlet from well in TB
<b>Sulphide (total, as S)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.018 mg/L	Well-tap on inlet from well in TB
<b>Tannins and Lignins</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.10 mg/L	Well-tap on inlet from well in TB
<b>Thallium (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.20 mg/L	Well-tap on inlet from well in TB
<b>Tin (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.030 mg/L	Well-tap on inlet from well in TB
<b>Titanium (total)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.010 mg/L	Well-tap on inlet from well in TB
<b>Total Coliforms (counts)</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 1 counts/100ml	Well-tap on inlet from well in TB
<b>Total Dissolved Solids / TDS</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	51 mg/L	Well-tap on inlet from well in TB
<b>Total Kjeldahl Nitrogen / TKN</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.050 mg/L	Well-tap on inlet from well in TB
<b>Total Organic Carbon / TOC</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.50 mg/L	Well-tap on inlet from well in TB
<b>Turbidity</b>		<b>Sampling Point Name</b>
08/16/2017 11:30	< 0.10 NTU	Well-tap on inlet from well in TB

Uranium (total)		Sampling Point Name
08/16/2017 11:30	< 0.00010 mg/L	Well-tap on inlet from well in TB
Vanadium (total)		Sampling Point Name
08/16/2017 11:30	< 0.030 mg/L	Well-tap on inlet from well in TB
Zinc (total)		Sampling Point Name
08/16/2017 11:30	< 0.0050 mg/L	Well-tap on inlet from well in TB

**Result Legend:**

P=present, A=absent, PR=presumptive, ND=non-detect, U=non-detect, OR=over-range, OG=overgrown, Y=yes, N=no, TNTC=too numerous to count, NR=no result, NT=not tested, IG=ignore, ER=external report, SC=see comment

< means less than lower detection limit shown

> means greater than upper detection limit shown

« means detected & less than number shown

» means detected & greater than number shown

\* Indicates Criteria is exceeded