

**DRINKING WATER SYSTEM ANNUAL REPORT**

**Reporting Period:** January 1<sup>st</sup> to December 31<sup>st</sup>, (year)

**Water System**

**Water System Owner**

**Primary Contact Name** (Operator or Manager)

**Phone Number** (Operator or Manager)

**E-mail** (Operator or Manager)

**DESCRIBE YOUR WATER SUPPLY SYSTEM**

**What is the Source(s) of Raw Water?**

Deep Well       Shallow Well       Surface Water       Other

If other, specify details:

**Does the Drinking Water System have Primary Disinfection?**       Yes       No

Chlorination       Ultraviolet Light       Ozone       Other

If other, specify details:

**Does the Drinking Water System have Secondary Disinfection?**       Yes       No

Chlorination       Other

If other, specify details:

**Does the Drinking Water System have Filtration?**       Yes       No

Check all boxes that apply

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

If other, specify details:

**PUBLIC REPORTING**

**Emergency Response & Contingency Plan (ERCP)**

**Is your ERCP up to Date?**       Yes       No

**How do you Inform the System Users of the ERCP?**

Hand Delivered       Bulletin Board       Newspaper       Utility Bill Insert       Website

Other (specify details) CVRD Engineering Services, 175 Ingram Street, Duncan, BC

**Drinking Water System Annual Report**

**How do you Inform the System Users of the Annual Report?**

Hand Delivered       Bulletin Board       Newspaper       Utility Bill Insert       Website

Other (specify details)

**COMPLIANCE WITH OPERATING PERMIT**

*List the conditions of your Operating Permit (Contact the DWO for a copy if needed):*

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*Are you in compliance with your Operating Permit?*  Yes  No

**BACTERIOLOGICAL TESTING AND DRINKING WATER PROTECTION REGULATION WATER QUALITY STANDARDS**

*How many bacteriological samples were collected during this reporting period?* \_\_\_\_\_

*What is the minimum required sampling frequency for this system? (#samples/month)* \_\_\_\_\_

Additional sampling details:

*Was the minimum required sampling frequency achieved?*  Yes  No

Comments:

*Bacteriological summary attached to this report?*  Yes  No

*If no, how do the users of the system view the results?*

**WATER QUALITY STANDARDS FOR POTABLE WATER**

<i>Parameter:</i>	<i>Standard:</i>	<i>Did this system meet standard?</i>	
Escherichia coli (for all samples)	No detectable <i>Escherichia coli</i> per 100ml	<input 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 100ml	<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, <b>and</b> No sample has more than 10 total coliform bacteria per 100ml	<input type="checkbox"/> Yes	<input type="checkbox"/> No

*If the system did not meet any of above Drinking Water Protection Regulation standards, record the results in the table below; attach additional sheets if necessary.*

Date	TC/100ml	E.coli/100ml	Reason	Corrective Action

**CHEMICAL SAMPLING COMPLETED DURING THIS REPORTING PERIOD**

**Was any chemical sampling conducted during reporting period?**  Yes  No

**If no, when were the last chemical samples conducted for this system? (date)**  Don't know

**If yes, attach a list of the chemical results**

**If any water samples did not meet the Guidelines for Canadian Drinking Water Quality, record the results in the table below; attach additional sheets if necessary.**

**Next scheduled full chemical test (date)**

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 the results available on request?**

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

Additional Testing & 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.*

Incident Date	Type of Operational Problem	Corrective Action Taken

**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	

**FUTURE IMPROVEMENTS**

*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

<p><b>Click here to enter a date.</b> DATE COMPLETED:</p>	<p>COMPLETED BY:</p>
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## BURNUM WATER SYSTEM

### Facility Location:

Burnum Road  
Cobble Hill

### Facility Information:

Facility Type: 15-300 (DWC)

### Facility Sampling History:

Location	Date	Total Coliform	E.Coli
S-1 1866 Burnham Road, S-1 1866 Burnham Road	18-Dec-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	11-Dec-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	4-Dec-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	26-Nov-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	20-Nov-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	13-Nov-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	6-Nov-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	29-Oct-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	22-Oct-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	16-Oct-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	10-Oct-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	2-Oct-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	25-Sep-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	18-Sep-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	11-Sep-2018	L1	L1



S-2 1785 Empress Road, S-2 1785 Empress Road	11-Sep-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	5-Sep-2018	71	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	28-Aug-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	21-Aug-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	14-Aug-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	8-Aug-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	23-Jul-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	16-Jul-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	9-Jul-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	3-Jul-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	27-Jun-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	18-Jun-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	12-Jun-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	4-Jun-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	23-May-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	14-May-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	7-May-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	30-Apr-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	24-Apr-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	16-Apr-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	10-Apr-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	3-Apr-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	27-Mar-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	19-Mar-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	13-Mar-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	5-Mar-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	26-Feb-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	19-Feb-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	13-Feb-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	5-Feb-2018	L1	L1



S-2 1785 Empress Road, S-2 1785 Empress Road	22-Jan-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	8-Jan-2018	L1	L1
S-2 1785 Empress Road, S-2 1785 Empress Road	8-Jan-2018	L1	L1
S-1 1866 Burnham Road, S-1 1866 Burnham Road	2-Jan-2018	L1	L1

**INORGANIC**

<b>Aluminum (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	0.014 mg/L	S1-1866 Burnham Rd
<b>Ammonia (total, as N)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.0050 mg/L	S1-1866 Burnham Rd
<b>Antimony (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.00050 mg/L	S1-1866 Burnham Rd
<b>Arsenic (total)</b>		<b>Sampling Point Name</b>
01/25/2018 02:00	0.00973 mg/L	S2-1785 Empress Rd
01/25/2018 02:10	0.00013 mg/L	Well 3
<b>* 01/25/2018</b>	<b>0.0165 mg/L</b>	<b>Post treatment well 3</b>
<b>02:10</b>		
<b>* 02/15/2018</b>	<b>0.0208 mg/L</b>	<b>Well 3</b>
<b>11:50</b>		
02/15/2018 11:50	< 0.00010 mg/L	Post treatment well 3
02/22/2018 10:30	0.00515 mg/L	S1-1866 Burnham Rd
02/22/2018 10:40	< 0.00010 mg/L	Post treatment well 3
04/12/2018 12:00	0.00469 mg/L	S2-1785 Empress Rd
<b>* 04/12/2018</b>	<b>0.0179 mg/L</b>	<b>Well 3</b>
<b>12:10</b>		
04/12/2018 12:12	< 0.00010 mg/L	Post treatment well 3
04/19/2018 11:30	0.00332 mg/L	S2-1785 Empress Rd
<b>* 04/19/2018</b>	<b>0.0190 mg/L</b>	<b>Well 3</b>
<b>11:40</b>		
04/19/2018 11:40	0.00021 mg/L	Post treatment well 3
05/03/2018 12:40	0.00010 mg/L	Post treatment well 3
<b>* 05/03/2018</b>	<b>0.0208 mg/L</b>	<b>Well 3</b>
<b>12:40</b>		
05/24/2018 11:15	0.00817 mg/L	S1-1866 Burnham Rd
05/24/2018 11:20	< 0.00010 mg/L	Post treatment well 3
06/07/2018 11:00	0.00513 mg/L	Well 3
06/07/2018 11:00	0.00012 mg/L	Post treatment well 3
06/07/2018 11:00	0.00773 mg/L	S1-1866 Burnham Rd
06/11/2018 00:00	0.00491 mg/L	S1-1866 Burnham Rd
06/21/2018 10:50	0.00016 mg/L	Post treatment well 3
06/21/2018 11:00	0.00340 mg/L	S1-1866 Burnham Rd
08/02/2018 14:20	0.00349 mg/L	S1-1866 Burnham Rd
08/02/2018 14:25	0.00050 mg/L	Post treatment well 3
11/29/2018 12:00	0.00442 mg/L	S2-1785 Empress Rd

<b>Arsenic (total)</b>		<b>Sampling Point Name</b>
* 11/29/2018	0.0211 mg/L	Post treatment well 3
12:00		
12/18/2018 11:30	0.00027 mg/L	S1-1866 Burnham Rd
<b>Barium (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	0.013 mg/L	S1-1866 Burnham Rd
<b>Beryllium (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.0050 mg/L	S1-1866 Burnham Rd
<b>Bismuth (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.20 mg/L	S1-1866 Burnham Rd
<b>Boron (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	0.81 mg/L	S1-1866 Burnham Rd
<b>Cadmium (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.00020 mg/L	S1-1866 Burnham Rd
<b>Calcium (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	29.1 mg/L	S1-1866 Burnham Rd
<b>Chloride</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	9.09 mg/L	S1-1866 Burnham Rd
<b>Chromium (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.0020 mg/L	S1-1866 Burnham Rd
<b>Cobalt (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.010 mg/L	S1-1866 Burnham Rd
<b>Copper (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	0.0229 mg/L	S1-1866 Burnham Rd
<b>Fluoride</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	0.164 mg/L	S1-1866 Burnham Rd
<b>Iron (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.030 mg/L	S1-1866 Burnham Rd
<b>Lead (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	0.00061 mg/L	S1-1866 Burnham Rd
<b>Lithium (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.010 mg/L	S1-1866 Burnham Rd

<b>Magnesium (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	5.12 mg/L	S1-1866 Burnham Rd
<b>Manganese (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	0.0056 mg/L	S1-1866 Burnham Rd
<b>Mercury (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.00020 mg/L	S1-1866 Burnham Rd
<b>Molybdenum (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.030 mg/L	S1-1866 Burnham Rd
<b>Nickel (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.050 mg/L	S1-1866 Burnham Rd
<b>Nitrate (as N)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	0.0913 mg/L	S1-1866 Burnham Rd
<b>Nitrate + Nitrite (as N)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	0.0913 mg/L	S1-1866 Burnham Rd
<b>Nitrite (as N)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.0010 mg/L	S1-1866 Burnham Rd
<b>Phosphorus (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.30 mg/L	S1-1866 Burnham Rd
<b>Potassium (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	0.13 mg/L	S1-1866 Burnham Rd
<b>Selenium (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.0010 mg/L	S1-1866 Burnham Rd
<b>Silicon (total, as Si)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	10.7 mg/L	S1-1866 Burnham Rd
<b>Silver (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.010 mg/L	S1-1866 Burnham Rd
<b>Sodium (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	15.2 mg/L	S1-1866 Burnham Rd
<b>Strontium (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	0.276 mg/L	S1-1866 Burnham Rd
<b>Sulphate</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	15.8 mg/L	S1-1866 Burnham Rd

<b>Sulphide (total, as S)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.018 mg/L	S1-1866 Burnham Rd
<b>Thallium (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.20 mg/L	S1-1866 Burnham Rd
<b>Tin (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.030 mg/L	S1-1866 Burnham Rd
<b>Titanium (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.010 mg/L	S1-1866 Burnham Rd
<b>Vanadium (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.030 mg/L	S1-1866 Burnham Rd
<b>Zinc (total)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	0.0133 mg/L	S1-1866 Burnham Rd
<b>MICROORGANISMS</b>		
<b>Escherichia coli / E. coli (counts)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 1 counts/100ml	S1-1866 Burnham Rd
<b>Heterotrophic Plate Count / HPC</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 100 CFU/100ml	S1-1866 Burnham Rd
<b>Sulfate Reducing Bacteria</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	SC	S1-1866 Burnham Rd
<b>Total Coliforms (counts)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 1 counts/100ml	S1-1866 Burnham Rd
<b>ORGANIC</b>		
<b>Bromodichloromethane (dichlorobromomethane)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	0.0015 mg/L	S1-1866 Burnham Rd
<b>Bromoform</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.0010 mg/L	S1-1866 Burnham Rd
<b>Chloroform</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	0.0016 mg/L	S1-1866 Burnham Rd
<b>Dibromochloromethane (Chlorodibromomethane)</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	0.0012 mg/L	S1-1866 Burnham Rd
<b>Tannins and Lignins</b>		<b>Sampling Point Name</b>
06/11/2018 00:00	< 0.10 mg/L	S1-1866 Burnham Rd

<b>Total Kjeldahl Nitrogen / TKN</b>	<b>Sampling Point Name</b>
06/11/2018 00:00 < 0.050 mg/L	S1-1866 Burnham Rd

<b>Total Organic Carbon / TOC</b>	<b>Sampling Point Name</b>
06/11/2018 00:00 < 0.50 mg/L	S1-1866 Burnham Rd

**PHYSICAL**

<b>Alkalinity (total, as CaCO3)</b>	<b>Sampling Point Name</b>
06/11/2018 00:00 106 mg/L	S1-1866 Burnham Rd

<b>Colour</b>	<b>Sampling Point Name</b>
06/11/2018 00:00 < 5.0 TCU	S1-1866 Burnham Rd

<b>Conductivity</b>	<b>Sampling Point Name</b>
06/11/2018 00:00 249 uS/cm	S1-1866 Burnham Rd

<b>Hardness (total, as CaCO3)</b>	<b>Sampling Point Name</b>
06/11/2018 00:00 93.7 mg/L	S1-1866 Burnham Rd

<b>pH</b>	<b>Sampling Point Name</b>
06/11/2018 00:00 8.24	S1-1866 Burnham Rd
06/11/2018 00:00 8.3	S1-1866 Burnham Rd

<b>Total Dissolved Solids / TDS</b>	<b>Sampling Point Name</b>
06/11/2018 00:00 163 mg/L	S1-1866 Burnham Rd

<b>Turbidity</b>	<b>Sampling Point Name</b>
06/11/2018 00:00 0.36 NTU	S1-1866 Burnham Rd

**RADIONUCLIDES**

<b>Uranium (total)</b>	<b>Sampling Point Name</b>
06/11/2018 00:00 < 0.00010 mg/L	S1-1866 Burnham Rd

**Result Legend:**

P=present, A=absent, PR=presumptive, ND=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

