



DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1st to December 31st, 2022 (year)

Water System Cumberland Lake Park Well

Water System Owner Village of Cumberland

Primary Contact Name (Operator or Manager) Dave Wing

Phone Number (Operator or Manager) 250-203-6991

E-mail (Operator or Manager) dwing@cumberland.ca

DESCRIBE YOUR WATER SUPPLY SYSTEM

What is the Source(s) of Raw Water?

☒ Deep Well ☐ Shallow Well ☐ Surface Water ☐ Other

If other, specify details: 2008 documentation from McGill's Well Service states it is 65' deep.

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)

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):

Permit attached to this report.

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? 14

What is the minimum required sampling frequency for this system? (#samples/month) 1

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

Parameter:	Standard:	Did this system meet standard?	
Escherichia coli (for all samples)	No detectable <i>Escherichia coli</i> per 100ml	<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 100ml	<input checked="" 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 100ml	<input type="checkbox"/> Yes	<input checked="" 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
September 14, 2022 TC: 20.1/100ml E.coli: 0 RAW sample				

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) **TBD**

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

Click here to enter a date.

October 20, 2023

DATE COMPLETED:

Gavin Murgatroyd

COMPLETED BY:

PERMIT
to **OPERATE**
A WATER SUPPLY SYSTEM

FILE COPY

Water System Name: CUMBERLAND LAKE PARK WELL
Premises Number: 14312

Premises Address: 1100 Comox Lake Road
Cumberland, BC
V0R 1S0

Water System Owner: Village of Cumberland

Village of Cumberland is hereby permitted to operate the above potable water supply system and is required to operate this system in accordance with the Drinking Water Protection Act and in accordance with the conditions set out in this operating permit and conditions established as part of any construction permit.

The water supply system for which this operating permit applies is generally described as:

Service Delivery Area: Cumberland
Source Water: Cumberland Lake Park Well
Water Treatment methods are: None
Water Disinfection methods are: Chlorine

Number of Connections 2-14 (DWS)

Operating conditions specific to this water supply system are in Appendix A.

Date: May 1, 2011

Issued By: 
Environmental Health Officer

**This permit must be displayed
in a conspicuous place and is not transferable**

Place Decal Here



FILE COPY

APPENDIX A

WATER SYSTEM OPERATING CONDITIONS FOR

CUMBERLAND LAKE PARK WELL

1100 Comox Lake Road

Cumberland, BC, V0R 1S0

1. In order to meet Ground Water Quality objectives, continue conducting routine source water quality analysis to identify additional treatment/disinfection technology that may be required.

Date: 25 June 2019

A handwritten signature in black ink, appearing to read "Ray. 21", written over a horizontal line.

Environmental Health Officer

Health Protection & Environmental Services

355 11th Street, Courtenay BC V9N 1S4

Tel: 250-331-8518 | Fax: 250-331-8596

Excellent health and care for everyone, everywhere, every time.

TOTAL E COLI

TOTAL COLI FORM



09/27/2022	Cumberland Lake Park Well	Sep	L1	L1
		SITE B Monthly May to		
09/14/2022	Cumberland Lake Park Well	Sep	LT1	LT1
		RAW Monthly May to		
09/14/2022	Cumberland Lake Park Well	Sep	20.1	LT1
		SITE B Monthly May to		
08/24/2022	Cumberland Lake Park Well	Sep	L1	L1
		SITE B Monthly May to		
08/09/2022	Cumberland Lake Park Well	Sep	LT1	LT1
		RAW Monthly May to		
08/09/2022	Cumberland Lake Park Well	Sep	LT1	LT1
		SITE B Monthly May to		
07/13/2022	Cumberland Lake Park Well	Sep	LT1	LT1
		SITE B Monthly May to		
06/14/2022	Cumberland Lake Park Well	Sep	L1	L1
		RAW Monthly May to		
06/08/2022	Cumberland Lake Park Well	Sep	LT1	LT1
		SITE B Monthly May to		
06/08/2022	Cumberland Lake Park Well	Sep	LT1	LT1
		SITE B Monthly May to		
05/17/2022	Cumberland Lake Park Well	Sep	L1	L1
		RAW Monthly May to		
05/03/2022	Cumberland Lake Park Well	Sep	LT1	LT1
		SITE B Monthly May to		
05/03/2022	Cumberland Lake Park Well	Sep	LT1	LT1
		SITE B Monthly May to		
04/27/2022	Cumberland Lake Park Well	Sep	L1	L1