



DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1st to December 31st, 2023 (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? 17

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 checked="" 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) 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
August 8, 2023	Low chlorine residual	Post boil water notice and increase chlorine pump dosing rate

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.

Nov 27, 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



island health

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

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.

Date Collected	Drinking Water System	Site Name	Total Coliform	Total E. Coli
09/18/2023	Cumberland Lake Park Well	SITE B Monthly May to Sep	L1	L1
09/06/2023	Cumberland Lake Park Well	SITE B Monthly May to Sep	LT1	LT1
09/06/2023	Cumberland Lake Park Well	RAW Monthly May to Sep	LT1	LT1
08/29/2023	Cumberland Lake Park Well	Cumberland Lake Park Chemical Results - TREATED	L1	L1
08/23/2023	Cumberland Lake Park Well	RAW Monthly May to Sep	LT1	LT1
08/08/2023	Cumberland Lake Park Well	SITE B Monthly May to Sep	L1	L1
08/01/2023	Cumberland Lake Park Well	SITE B Monthly May to Sep	LT1	LT1
07/25/2023	Cumberland Lake Park Well	SITE B Monthly May to Sep	L1	L1
07/24/2023	Cumberland Lake Park Well	RAW Monthly May to Sep	LT1	LT1
07/24/2023	Cumberland Lake Park Well	SITE B Monthly May to Sep	LT1	LT1
06/20/2023	Cumberland Lake Park Well	SITE B Monthly May to Sep	L1	L1
06/07/2023	Cumberland Lake Park Well	SITE B Monthly May to Sep	LT1	LT1
06/07/2023	Cumberland Lake Park Well	RAW Monthly May to Sep	LT1	LT1
05/23/2023	Cumberland Lake Park Well	SITE B Monthly May to Sep	L1	L1
05/08/2023	Cumberland Lake Park Well	SITE B Monthly May to Sep	LT1	LT1

05/08/2023	Cumberland Lake Park Well	RAW Monthly May to Sep	LT1	LT1
04/17/2023	Cumberland Lake Park Well	SITE B Monthly May to Sep	L1	L1