

DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1st to December 31st, 2021 (year)

Water System Northside Firehall #2

Water System Owner qathet Regional District

Primary Contact Name (Operator or Manager) Regan Keil, Parks and Properties Supervisor

Phone Number (Operator or Manager) 604-485-2260 ext 408

E-mail (Operator or Manager) rkeil@qathet.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:

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):

Minimum bacteriological sampling frequency is monthly.

Review and update the Emergency Response Plan annually.

Wellhead protection plan to be submitted by Nov. 1, 2022.

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?

1

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

1/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?

System did not come online till December. Going forward sample results will be posted online.

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 ☐ Never

If yes, did all water samples meet the Guidelines for Canadian Drinking Water Quality?

☒ Yes ☐ No

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.

| 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.

DATE COMPLETED: April 22, 2022

COMPLETED BY: Regan Keil

Small Water System Emergency Response Plan

Name of Water System: Northside Volunteer Fire Department - #2 Hall

Date Prepared: November 1, 2021

Prepared By: Regan Keil

Emergency Contact Information

| Contact Name(s) | Phone # | Cell # | Fax # or other #'s | Email |
|--|------------------------------|--------------|--------------------|--|
| Operator If certified operator give EOCP #: Regan Keil - #9197 | 604-487-1380 | 604-223-7856 | 604-487-1380 (f) | rkeil@gathet.ca |
| Owner's Name & Address: qathet Regional District 202 – 4675 Marine Ave. Powell River, BC V8A 2L2 | 604-487-1380 | 604-483-8201 | | operations@gathet.ca |
| Electrician: Foxtrot Electrical Solutions | 604-414-3929 | | | |
| Plumber: Target Plumbing | 604-483-5192 | 604-414-8450 | | |
| Equipment Supplier(s): Pete's Plumbing Fred Surridge | 604-485-9761 250-954-0368 | | | |
| Other: Jim Brown, Chief | 604-483-9303 | 604-483-1371 | | |
| Public Health Contact Information | | | | |
| Drinking Water Officer: Michael Nguyen, DWO | 604-485-3324 | 604-414-5545 | 778-317-8567 | Michael.nguyen@vch.ca |
| Back-up Health Contact Darren Molder, SEHO | 604-885-8711 | 604-989-1357 | 604-885-5200 | Darren.molder@vch.ca |
| Back-up Health Contact Jack Davidson, EHO | 604-485-3335 | 604-483-1981 | 604-314-0596 | Jack.davidson@vch.ca |
| Medical Health Officer: Dr. Geoff McKee, MHO | 604-983-6701 | 604-842-2357 | 604-983-6715 | geoff.mckee@vch.ca |

| | | | | |
|---|--------------|--------------|--------------|--|
| Back-up Health Contact Mark Ritson, DWO, Manager Health Protection | 604-983-6751 | 604-219-7359 | 604-988-6516 | Mark.ritson@vch.ca |
|---|--------------|--------------|--------------|--|

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Location of Water Source(s)

Directions to Site: 1.2 KM SE of Lund Harbour along Highway 101

Attach photo's: see next page

GPS settings: (if Known) 49.976832 N 124.748450 W

IN CASE OF EMERGENCY: Enter name of the person responsible for tasks.

If the water in the water system becomes contaminated or you receive an unsatisfactory water result, or in the event of an interruption in the treatment process:

1. Shut off water supply, if appropriate.
2. **Regan Keil** will notify DWO or back-up health contact.
3. Contact other appropriate person(s) from the list of emergency numbers.
4. **Regan Keil** will notify any affected water users. Please keep a phone and address list of users and warning signs handy. May need to phone or hand-deliver the notice (and water disinfection procedures) to the users.
5. **Regan Keil** will post warning signs.
6. **Regan Keil** will coordinate repair.
7. Organize alternate source of safe drinking water (if available).

Start-up Procedure

1. Identify and correct source of contamination.
2. Entire system should be flushed and disinfected. Follow attached guideline.
3. Submit water sample(s) to appropriate approved Lab for testing. For bacteriological contamination three negative successive samples are usually required. Contact your DWO to confirm the number of samples necessary.
4. Contact DWO for approval to resume use of water supply.

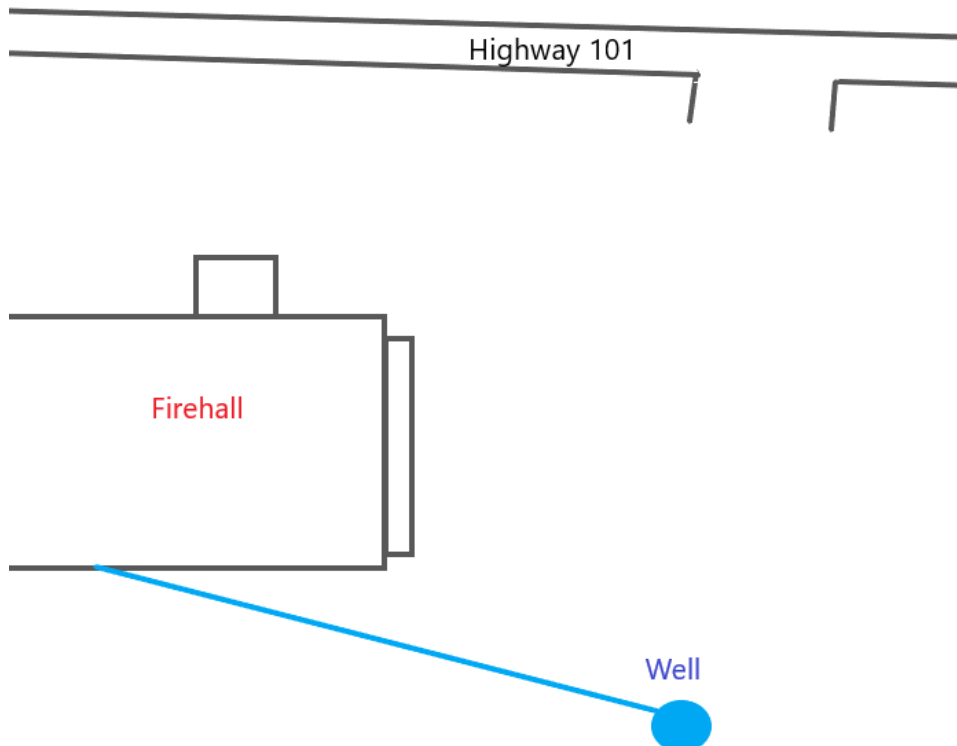
Posting the Emergency Response Plan

The ERP must be posted in a conspicuous location that is easily accessible to the operator and management of the water supply.

Location of ERP: Upstairs of fire hall by kitchen sink with a copy at the qathet Regional District Maintenance Facility.

Additional Information

1. Include a schematic drawing of the water supply system; from the source to the tap. Include all sources, storage, reservoirs, treatment and distribution system.
2. Include public notices which may be required in the event of a "boil advisory" or "do not consume" notice. Templates are attached.



DO NOT USE WATER NOTICE

**NORTHSIDE VOLUNTEER
FIRE DEPARTMENT
(qathet Regional District)
IS ADVISING ALL USERS
THAT THE DOMESTIC
WATER SUPPLY IS NOT
SAFE FOR DRINKING OR
DOMESTIC USE.**

****DUE TO THE NATURE OF THE
CONTAMINATION, BOILING MAY NOT
ACHIEVE SAFE DRINKING WATER**



BOIL WATER ADVISORY

Northside Volunteer Fire Department (qathet Regional District) is advising all users to boil their water before using it for drinking, cooking, washing food, or brushing teeth, due to a potential problem with the water system.

The water can be made safe by boiling it for one minute at a rolling boil. Boiled water should be stored in a clean container in the refrigerator.

Alternatively, bottled water can be used.

You will be notified when service is returned to normal and the water is again safe to drink. Thank you for your co-operation in this matter.

