DRINKING WATER SYSTEM ANNUAL REPORT	Page 1	. of 4

DRINKING WATER SYSTEM ANNUAL REPORT			
Reporting Period:	January 1 st to Decem	ber 31 st , 2023 (year)	
Water System Malaspina Firehall #1			
Water System Owner qathet Regional Distri	ct		
Primary Contact Name (Operator or Manager) Re	egan Keil, Parks and Pro	perties Supervisor	
Phone Number (Operator or Manager) 604-4	485-2260 ext 408		
E-mail (Operator or Manager) rkeil@	Dqathet.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 Prime	ary Disinfection?	✓Yes	No
Chlorination	Ozone	Other	
If other, specify details:			
Does the Drinking Water System have Secon	ndary Disinfection?	Yes	✓ No
Chlorination Other			
If other, specify details:			
Does the Drinking Water System have Filtra	tion?	✓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 (E	RCP)		
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)			

DRINKING WATER SYSTEM ANNUAL REPORT PAGE 2 OF 4

COMPLIANCE WITH OPERATING PERMIT

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

Ensure Emergency Response Plan is reviewed at least annually and updated as required.

Submit a bacteriological sample at least very 6 months.

Sample for Nitrates annually and forward sample results to DWO.

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 rep	orting period?	6		
What is the minimum required sampling frequency for this system	n? (#samples/month)	every 6 months		
Additional sampling details:				
Was the minimum required sampling frequency achieved?	✓Yes	No		
Comments:				
Bacteriological summary attached to this report?	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 Escherichia coli per 100ml	✓Yes No
Total Coliform Bacteria (if only 1 sample collected in a 30 day period)	No detectable total coliform bacteria per 100ml	✓Yes 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	✔Yes 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.

TC/100ml	E.coli/100ml	Reason	Corrective Action
	TC/100ml	TC/100ml E.coli/100ml	TC/100mlE.coli/100mlReasonImage: Color of the second se

			DRINKING WAT	ER SYSTEM ANNUAL REPORT	Page
CHEMICAL SAM	PLING COMPLETEI	D DURING THIS REPORTING PER	IOD		
Was any cher	nical sampling	conducted during reporting	g period? Ves	No	
If no, when w for this syster		emical samples conducted	If yes, did all water s Canadian Drinking V	amples meet the Guidelin Vater Quality?	es for
(date) 02/13/20	023 🗌 Don't I	Know Never	✓ Yes	No	
the table belo	ow; attach addi	meet the Guidelines for Co tional sheets if necessary.	-	er Quality, record the resu	lts in
Parameter	Result	Corrective Action / Tre	atment / Comments		
Nirtate	5.76				

ADDITIONAL TESTING

Does the system have analyzers for continuous monitoring?			Yes	∠ No	
If yes, check all bo	exes that apply:				
Chlorine	Turbidity	Other (details)			
Are the results ave	ailable 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		No	
period? (e.g. taste, odour, colour etc.)	Yes		

If yes, complete the table below; attach additional sheets if necessary.

ater Quality Complaint	Corrective Action / Treatment

			[RINKING WATER SY	STEM ANNUAL REPORT PAGE 4 OF
OPERATIONAL PROBL	EMS				
period? (e.g. insuf	perational problem ficient water supp ment, line breaks,	ly, malfunctio	on of	Yes	✓No
If yes, complete th	ne table below; att	ach addition	al sheets if neo	essary.	
Incident Date Ty	pe of Operational	Problem	Corrective A	ction Taken	
MAJOR UPGRADES/F					
	ajor upgrades/rep is reporting period	-	ajor costs	Yes	No
	ne table below; att		al sheets if neo	essary.	
Major Upgrades/E	Expenses	Details			
Improvements req	uired by DWO				
Additions/changes	s to system				
Purchase or install	new equipment				
Equipment repair	or replacement				
Annual maintenan	ce of system				
Specialist report					
Other					
FUTURE IMPROVEME	NTS				
Are there any plar	ns for future impro	vements?		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 2, 2024	COMPLETED BY: Regan Keil

MVFD - POWELL RIVER COMMU

DATE COLLECTED		DOWNSTAIRS WASHROOM			KITCHEN SINK		
YEAR DA	TE	TC*	FC**	CMT	TC	FC	CMT
2023							
1-H	Feb	L1	L1				
8-N	/lar	L1	L1				
7-J	un	L1	L1				
26-	Jul	L1	L1				
11-	Oct	L1	L1				
14-]	Nov	L1	L1				

EST: EST result indicates high colony density on membrane preventing accurate coliform counting.

BWA: Boil Water Advisory

OG: Overgrown - confluent bacterial growth on membrane preventing accurate coliform determination

- More than 200 background colonies noted on total coliform membrane filter per 100 ml. Indicates system
- # Indicates high colony density on membrane preventing accurate coliform counting
- * Total Coliform per 100 mL
- ** E. Coli per 100 mL
- CMT Comment
 - L Less than



Vancouver Coastal Health

Powell River Health Unit 3rd Floor - 5000 Joyce Ave Powell River, BC V8A 5R3 604 485 3310

Small Water System – Emergency Response & Contingency Plan

Name of Water System: Malaspina Fire Department #1 Hall

Date Prepared: April 2, 2024

Prepared By: <u>Regan Keil</u>

EOCP#: 9197 OWNER(S)	604-485-2260 604-485-2260	604-223-7856	Patrick	rkeil@qathet.ca				
EOCP#: 9197 OWNER(S) Name: qathet Regional Dist.		604-223-7856	Patrick	rkeil@qathet.ca				
OWNER(S) Name: qathet Regional Dist.	604-485-2260		Patrick					
Name: qathet Regional Dist.	604-485-2260		Patrick					
	604-485-2260							
Address: 202 – 4675 Marine			Devereaux	operations@qathet.ca				
			604-483-8201					
Ave								
ELECTRICIAN								
Name: Foxtrot Electrical	604-414-3929							
PLUMBER								
Name: Shorefront	604-483-6064							
EQUIPMENT SUPPLIER								
8	604-485-9761							
Fred Surridge	250-954-0368							
OTHER								
Name: Chief Dave Keiver	604-483-1612			mvfdchief@qathet.ca				
PUBLIC HEALTH CONTACT INFORMATION								
PRIMARY CONTACT								
Jack Davidson DWO	604-485-3335	604-483-1981	604-314-0596	jack.davidson@vch.ca				
BACK-UP HEALTH CONTACTS								
1.Darren Molder DWO	604-885-8711	604-989-1357	604-989-7678	darren.molder@vch.ca				
2.Michael Nguyen DWO	604-485-3324	604-414-5545	778-317-8567	michael.nguyen@vch.ca				
3.Dan Glover DWO	604-815-6846	604-815-3128	n.a.	dan.glover@vch.ca				
4.Phil Muirhead DWO	604-983-6756	604-306-2717	n.a.	phil.muirhead@vch.ca				
5.Moliehi Khaketla MHO*	604-984-5070	604-612-9433	n.a.	moliehi.khaketla1@vch.ca				
6.Mark Ritson DWO	604-983-6813	604-219-7359	604-988-6516	mark.ritson@vch.ca				
(Manager Health Protection)								

*Note: For the purpose of the Drinking Water Protection Act and Regulation, Dr. Moliehi Khaketla is both a Medical Health Officer and a Drinking Water Officer.

DWO; Drinking Water Officer

MHO; Medical Health Officer





Powell River Health Unit 3rd Floor - 5000 Joyce Ave Powell River, BC V8A 5R3 604 485 3310

Location of Water Source(s)

Directions to Site: Well is located on right side of the fire hall in a cement well ring in the paved area.

Attach photo's (Optional)

GPS settings: (if Known) 49 46" 19.8 N 124 23" 38.31W

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. <u>Dave Keiver</u> 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. <u>Dave Keiver will post warning signs.</u>
- 6. <u>Regan Keil</u> 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.

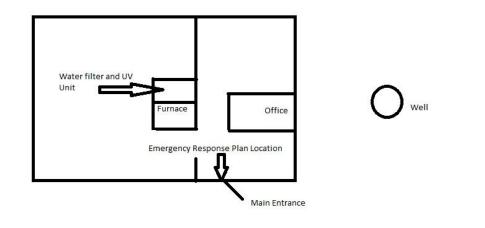
Location of ERP: Hanging on the wall in the radio room.

Additional Information

- 1. Include a schematic drawing of the water supply system; from the source to the tap. Include all sources, storage, reservoirs, and 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.



Malaspina Volunteer Fire Department Water System





DO NOT USE WATER NOTICE

MVFD (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



BOIL WATER ADVISORY

MVFD (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.

