DRINKING WATER SYSTEM ANNUAL REPORT PAGE 1 C	1 of 4
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DRINKING WATER SYSTEM ANNUAL REPORT			
Reporting Period:	January 1 <sup>st</sup> to Decem	per 31 <sup>st</sup> , 2021 (year)	
Water System Haywire Bay Regiona	l Park		
Water System Owner qathet Regional Distri	ct		
Primary Contact Name (Operator or Manager) Re	gan Keil, Parks and Pro	perties Supervisor	
Phone Number (Operator or Manager) 604-4	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 Prime	ary Disinfection?	<b>✓</b> Yes	No
✓ Chlorination Ultraviolet Light	Ozone	Other	
If other, specify details:			
Does the Drinking Water System have Secon	ndary Disinfection?	Yes	<b>⊮</b> 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)			

COMPLIANCE		Dense and
	IDER ATINI	
CONFLIANCE		

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

Samples submitted on a regular basis beginning 2 weeks prior, and throughout the operating season.

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

Ensure certified operator is available at all times.

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	26			
What is the minimum required sampling frequency for this system	"regular basis"			
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 m	neet standard?
Escherichia coli (for all samples)	No detectable Escherichia coli per 100ml	<b>✓</b> 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	No more than 10% of samples contain total		
(if more than 1 sample collected in a	coliform bacteria, and No sample has more than	✓Yes	No
30 day period)	10 total coliform bacteria per 100ml		

*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 SAMP	LING COMPLETED	DURING THIS REPORTING F	PERIOD	
Was any chem	ical sampling c	onducted during report	ting period?	No
for this system	1?	mical samples conducte	Canadian Drinking	
(date) 07/01/20	15 🗌 Don't K	now Never	Yes	No
	•	meet the Guidelines for ional sheets if necessar	-	ter Quality, record the results in
Parameter	Result	Corrective Action / T	reatment / Comments	
Additional Tes	TING			
Does the syste	m have analyze	ers for continuous moni	itoring? Yes	No
If yes, check al	l boxes that ap	ply:		
Chlorine	Turl	oidity Othe	er (details)	
Are the results	available on re	equest?		
If any addition sheets if neces	-	mpling was conducted,	record results in the tal	ble below; attach additional
Additional Tes	ting & Reason	for Sampling Corre	ctive Action Taken	

#### WATER QUALITY COMPLAINTS

Were there any water quality complaints in this reporting		No	
period? (e.g. taste, odour, colour etc.)	Yes	<b>V</b> INO	

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

Water Quality Complaint	Corrective Action / Treatment
	Water Quality Complaint

			Dr	INKING WATER SY	STEM ANNUAL REPORT PAGE 4 OL
OPERATIONAL PRO	DBLEMS				
period? (e.g. ins	operational problen sufficient water supp ipment, line breaks,	ly, malfunctio	on of	Yes	No
lf yes, complete	the table below; at	ach addition	al sheets if neces	ssary.	
Incident Date	Type of Operational	Problem	Corrective Act	ion Taken	
MAJOR UPGRADES/REPAIRS & EXPENSES					
Were there any major upgrades/repairs or any major costs incurred during this reporting period?				<b>∠</b> No	
If yes, complete the table below; attach additional sheets if necessary.					
Major Upgrades	s/Expenses	Details			
Improvements r	equired by DWO				
Additions/chang	ges to system				
Purchase or inst	all new equipment				
Equipment repa	ir or replacement				
Annual mainten	•				
Specialist report	:				
Other					
FUTURE IMPROVE	MENTS				
Are there any plans for future improvements?				Yes	No

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

Click here to enter a date.	
	COMPLETED BY: Regan Keil

### HAYWIRE BAY WATER TESTS

DATE			ГАР #			ГАР #:			CAP #1			CAP #1			USE 1		SOUH V	VATE	RAW R	RA	/ELL I W WA	
YEAR DAT	Е	TC*	FC**	CMT	TC*	FC**	CMT	TC*	FC**	CMT	TC*	FC**	CMT	TC*	FC**	CMT	TC*	FC**	CMT	TC*	FC**	CMT
2021																						
20-A	or				L1	L1		L1	L1					L1	L1							
27-A	or 📗	L1	L1		L1	L1		L1	L1					L1	L1							
12-M	ay 📗	L1	L1		L1	L1		L1	L1					L1	L1							
26-M	ay 📗	L1	L1		L1	L1		L1	L1					L1	L1							
9-Ju	1	L1	L1		L1	L1		L1	L1					L1	L1							
23-Ju	n	L1	L1		L1	L1		L1	L1													
7-Ju	t 📗	L1	L1		L1	L1		L1	L1					L1	L1							
21-Ju	1	L1	L1		L1	L1		L1	L1		L1	L1		L1	L1							
4-Au	g	L1	L1		L1	L1		L1	L1		L1	L1		L1	L1							
25-A	ıg	L1	L1		L1	L1		L1	L1		L1	L1		L1	L1							
8-Se	2	L1	L1		L1	L1		L1	L1		L1	L1		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 requires flushing

- # 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



#### Name of Water System: HAYWIRE BAY PARK - #11035

Date Prepared: March 10, 2022 Prepared By: Caroline Visser

#### **Emergency Contact Information**

Contact Name(s)	Phone #	Cell #	Fax # or other #'s	Email							
<b>Operator</b> If certified operator give EOCP #: Regan Keil - #9197	604-487-1380	604-223-7856		rkeil@qathet.ca							
<b>Owner's Name and Address:</b> qathet Regional District 202 – 4675 Marine Ave. Powell River, BC V8A 2L2	604-487-1380	604-483-8201		operations@qathet.ca							
<b>Electrician:</b> Foxtrot Electrical Solutions	604-414-3929										
Plumber: Target Plumbing	604-483-5192	604-414-8450									
<b>Equipment Supplier(s):</b> Pete's Plumbing Fred Surridge	604-485-9761 250-954-0368										
<b>Other:</b> Morgan Huxter, Caretaker	604-483-1097			rkeil@qathet.ca							
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							
<b>Back-up Health Contact</b> Len Clarkson, DWO, Drinking Water Specialist	604-815-6841	604-892-7528	604-892-5447	Len.Clarkson@vch.ca							
Medical Health Officer: Dr. Geoff McKee, MHO	604-983-6701	604-842-2357	604-983-6715	geoff.mckee@vch.ca							
<b>Back-up Health Contact</b> Mark Ritson, DWO, Manager Health Protection	604-983-6751	604-219-7359	604-988-6516	Mark.ritson@vch.ca							

\\powellriverrd.bc.ca\DFSMain\NShare\data\NEW SYSTEM\5200 - 5799 ENGINEERING AND PUBLIC WORKS\5610 WATER SYSTEMS - GENERAL\03 Water System Annual Reports\2021\Working\VCH ERP Small Systems - HWB.doc

#### Location of Water Source(s)

Directions to Site: Drill well located 20' on the right hand side of the road leading to the caretakers cabin at Haywire Bay.

Attach photo's (Optional)

GPS settings: 49.904 N 124.52 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. **Morgan Huxter** 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. **Morgan Huxter** 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: Hanging on the wall of the chlorine building 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**

## HAYWIRE BAY PARK WATER SYSTEM 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**

Haywire Bay Park Water System 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.

