

## DRINKING WATER SYSTEM ANNUAL REPORT

**Reporting Period:** January 1<sup>st</sup> to December 31<sup>st</sup>, (year)

**Water System**

**Water System Owner**

**Primary Contact Name** (Operator or Manager)

**Phone Number** (Operator or Manager)

**E-mail** (Operator or Manager)

## 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 that have been placed on your Operating Permit (if you have conditions, these will be stated on your permit):*

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**Are you in compliance with the conditions listed on your Operating Permit?**     Yes     No     N/A

**BACTERIOLOGICAL TESTING AND DRINKING WATER PROTECTION REGULATION WATER QUALITY STANDARDS**

**How many bacteriological samples were collected during this reporting period?** \_\_\_\_\_

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

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**WATER QUALITY STANDARDS FOR POTABLE WATER**

<b>Parameter:</b>	<b>Standard:</b>	<b>Did this system meet standard?</b>	
Escherichia coli (for all samples)	No detectable <i>Escherichia coli</i> per 100ml	<input 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 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, <b>and</b> No sample has more than 10 total coliform bacteria per 100ml	<input 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.**

<b>Date</b>	<b>TC/100ml</b>	<b>E.coli/100ml</b>	<b>Reason</b>	<b>Corrective Action</b>

**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

<b>DATE COMPLETED:</b>	<b>COMPLETED BY:</b>
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# Sample Range Report

Fraser Health Authority

**Facility Name:** Village of Harrison Hot Springs Art Gallery

**Date Range:** Jan 1 2024 to Dec 31 2024

**Operator** Tyler Simmonds  
Box 160, 495 Hot Springs Rd  
Harrison Hot Springs, BC V0M 1K0

<u>Sampling Site</u>	<u>Date Collected</u>	<u>Total Coliform</u>	<u>E. Coli</u>	<u>Fecal Coliform</u>
<u>Kitchen Tap, 98</u>				
<u>Rockwell Dr</u>				
	1-2-2024 10:30:00 AM	LT1	LT1	
	1-15-2024 10:30:00 AM	LT1	LT1	
	1-29-2024 10:45:00 AM	LT1	LT1	
	2-12-2024 10:20:00 AM	LT1	LT1	
	2-26-2024 10:25:00 AM	LT1	LT1	
	3-11-2024 10:30:00 AM	LT1	LT1	
	3-25-2024 10:30:00 AM	LT1	LT1	
	4-8-2024 10:20:00 AM	LT1	LT1	
	4-22-2024 10:35:00 AM	LT1	LT1	
	5-13-2024 8:00:00 AM	LT1	LT1	
	5-27-2024 8:40:00 AM	LT1	LT1	
	6-10-2024 10:55:00 AM	LT1	LT1	
	6-24-2024 10:30:00 AM	LT1	LT1	
	7-8-2024 10:40:00 AM	LT1	LT1	
	7-22-2024 10:40:00 AM	LT1	LT1	
	8-6-2024 10:40:00 AM	LT1	LT1	
	8-19-2024 10:40:00 AM	LT1	LT1	
	9-3-2024 10:40:00 AM	LT1	LT1	
	9-16-2024 9:30:00 AM	LT1	LT1	
	10-1-2024 10:30:00 AM	LT1	LT1	

10-15-2024 12:00:00 PM	LT1	LT1
10-28-2024 10:40:00 AM	LT1	LT1
11-12-2024 10:30:00 AM	LT1	LT1
12-9-2024 11:00:00 AM	<u>LT1</u>	<u>LT1</u>
<b>Total Positive:</b>	<b>0</b>	<b>0</b>

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**Result Values:**                      **E - estimated**                      **L - less than**                      **G - greater than**

Samples that contain total coliform:	0	0.00% of total
Samples that contain e. coli:	0	0.00% of total
Samples that contain fecal coliform:	0	0.00% of total
Number of consecutive samples that contain total coliform:	0	
Number of samples that contain total coliform in last 30 days:	0/0	
Total number of samples:	24	

**Comments:**

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Environmental Health Officer  
Jan 14 2025

FOR FURTHER INFORMATION PLEASE CALL: Jessica Hibbs (604) 870-7900



## CERTIFICATE OF ANALYSIS

**Work Order** : **VA24C2158**  
**Client** : **Village of Harrison Hot Springs**  
**Contact** : **Tyler Simmonds**  
**Address** : **PO Box 160 495 Hot Springs Road**  
                   **Harrison Hot Springs BC Canada V0M 1K0**  
**Telephone** : **---**  
**Project** : **WTP Aug 2024**  
**PO** : **20494**  
**C-O-C number** : **---**  
**Sampler** : **Bruce Macait**  
**Site** :  
**Quote number** : **VA19-VHHS100-001**  
**No. of samples received** : **4**  
**No. of samples analysed** : **4**

**Page** : 1 of 4  
**Laboratory** : **ALS Environmental - Vancouver**  
**Account Manager** : **Janine Weeks**  
**Address** : **8081 Lougheed Highway**  
                   **Burnaby BC Canada V5A 1W9**  
**Telephone** : **+1 604 253 4188**  
**Date Samples Received** : **28-Aug-2024 12:45**  
**Date Analysis Commenced** : **28-Aug-2024**  
**Issue Date** : **09-Sep-2024 10:54**

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

### Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Kevin Duarte	Supervisor - Metals ICP Instrumentation	Metals, Burnaby, British Columbia
Maya Urquhart	Lab Analyst	Metals, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Inorganics, Burnaby, British Columbia
Miles Gropen	Department Manager - Inorganics	Microbiology, Burnaby, British Columbia
Stephanie Pinheiro	Team Leader - LCMS	LCMS, Waterloo, Ontario



## General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances  
LOR: Limit of Reporting (detection limit).

<i>Unit</i>	<i>Description</i>
µg/L	micrograms per litre
µS/cm	microsiemens per centimetre
CU	colour units (1 cu = 1 mg/l pt)
mg/L	milligrams per litre
MPN/100mL	most probable number per hundred millilitres
NTU	nephelometric turbidity units
pH units	pH units

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

## Qualifiers

<i>Qualifier</i>	<i>Description</i>
HTDC	Hold time exceeded for dilution or re-analysis. Reported results are consistent with initial results (tested within hold time), and are valid and defensible.





## Analytical Results

Sub-Matrix: Water					Client sample ID	RAW water	Treated water	Peace Park	Art Gallery	----
(Matrix: Water)					Client sampling date / time	28-Aug-2024 08:00	28-Aug-2024 08:00	28-Aug-2024 08:00	28-Aug-2024 08:00	----
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2158-001	VA24C2158-002	VA24C2158-003	VA24C2158-004	-----	
					Result	Result	Result	Result	----	
<b>Physical Tests</b>										
Alkalinity, total (as CaCO3)	----	E290/VA	1.0	mg/L	15.9	15.9	16.0	35.3	----	
Colour, true	----	E329/VA	5.0	CU	<5.0	<5.0	<5.0	<5.0	----	
Conductivity	----	E100/VA	2.0	µS/cm	47.2	52.3	52.3	89.0	----	
pH	----	E108/VA	0.10	pH units	7.38	7.40	7.40	7.70	----	
Solids, total dissolved [TDS]	----	E162/VA	10	mg/L	29	51	32	63	----	
Turbidity	----	E121/VA	0.10	NTU	0.93	<0.10	<0.10	0.71	----	
Hardness (as CaCO3), from total Ca/Mg	----	EC100A/VA	0.60	mg/L	19.2	18.7	18.9	38.4	----	
<b>Anions and Nutrients</b>										
Chloride	16887-00-6	E235.Cl/VA	0.50	mg/L	0.60	1.81	1.79	1.87	----	
Fluoride	16984-48-8	E235.F/VA	0.020	mg/L	0.024	<0.020	<0.020	<0.020	----	
Nitrate (as N)	14797-55-8	E235.NO3-LV A	0.0050	mg/L	0.0320	0.0209 <sup>HTDC</sup>	0.0159	0.157 <sup>HTDC</sup>	----	
Nitrite (as N)	14797-65-0	E235.NO2-LV A	0.0010	mg/L	<0.0010	<0.0010 <sup>HTDC</sup>	<0.0010	<0.0010 <sup>HTDC</sup>	----	
Sulfate (as SO4)	14808-79-8	E235.SO4/VA	0.30	mg/L	5.49	5.47	5.45	7.47	----	
<b>Microbiological Tests</b>										
Coliforms, total	----	E010/VA	1	MPN/100mL	3	<1	<1	<1	----	
Coliforms, Escherichia coli [E. coli]	----	E010/VA	1	MPN/100mL	<1	<1	<1	<1	----	
<b>Total Metals</b>										
Aluminum, total	7429-90-5	E420/VA	0.0100	mg/L	0.0609	0.0105	0.0102	<0.0100	----	
Antimony, total	7440-36-0	E420/VA	0.00050	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	----	
Arsenic, total	7440-38-2	E420/VA	0.00010	mg/L	0.00023	0.00022	0.00023	0.00030	----	
Barium, total	7440-39-3	E420/VA	0.0200	mg/L	<0.0200	<0.0200	<0.0200	<0.0200	----	
Boron, total	7440-42-8	E420/VA	0.100	mg/L	<0.100	<0.100	<0.100	<0.100	----	
Cadmium, total	7440-43-9	E420/VA	0.000200	mg/L	<0.000200	<0.000200	<0.000200	<0.000200	----	
Calcium, total	7440-70-2	E420/VA	0.100	mg/L	6.56	6.42	6.46	13.5	----	
Chromium, total	7440-47-3	E420/VA	0.00200	mg/L	<0.00200	<0.00200	<0.00200	0.00206	----	
Copper, total	7440-50-8	E420/VA	0.00100	mg/L	<0.00100	0.00157	0.00312	0.188	----	
Iron, total	7439-89-6	E420/VA	0.030	mg/L	0.041	<0.030	<0.030	0.226	----	
Lead, total	7439-92-1	E420/VA	0.000500	mg/L	<0.000500	<0.000500	<0.000500	0.00988	----	



## Analytical Results

Sub-Matrix: Water					Client sample ID	RAW water	Treated water	Peace Park	Art Gallery	----
(Matrix: Water)										
Client sampling date / time					28-Aug-2024 08:00	28-Aug-2024 08:00	28-Aug-2024 08:00	28-Aug-2024 08:00	----	
Analyte	CAS Number	Method/Lab	LOR	Unit	VA24C2158-001	VA24C2158-002	VA24C2158-003	VA24C2158-004	-----	
					Result	Result	Result	Result	---	
<b>Total Metals</b>										
Magnesium, total	7439-95-4	E420/VA	0.100	mg/L	0.674	0.650	0.674	1.14	----	
Manganese, total	7439-96-5	E420/VA	0.00200	mg/L	<0.00200	<0.00200	<0.00200	0.0342	----	
Mercury, total	7439-97-6	E508/VA	0.0000050	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	----	
Potassium, total	7440-09-7	E420/VA	0.100	mg/L	0.668	0.654	0.661	0.602	----	
Selenium, total	7782-49-2	E420/VA	0.00100	mg/L	<0.00100	<0.00100	<0.00100	<0.00100	----	
Sodium, total	7440-23-5	E420/VA	2.00	mg/L	<2.00	2.22	2.33	2.31	----	
Uranium, total	7440-61-1	E420/VA	0.000100	mg/L	<0.000100	<0.000100	<0.000100	<0.000100	----	
Zinc, total	7440-66-6	E420/VA	0.0500	mg/L	<0.0500	<0.0500	<0.0500	0.0845	----	
<b>Haloacetic Acids</b>										
Bromochloroacetic acid	5589-96-8	E750/WT	1.00	µg/L	----	<1.00	<1.00	----	----	
Dibromoacetic acid	631-64-1	E750/WT	1.00	µg/L	----	<1.00	<1.00	----	----	
Dichloroacetic acid	79-43-6	E750/WT	1.00	µg/L	----	8.92	5.66	----	----	
Monobromoacetic acid	79-08-3	E750/WT	1.00	µg/L	----	<1.00	<1.00	----	----	
Monochloroacetic acid	79-11-8	E750/WT	1.00	µg/L	----	<1.00	<1.00	----	----	
Trichloroacetic acid	76-03-9	E750/WT	1.00	µg/L	----	10.0	12.8	----	----	
Haloacetic acids, total [HAA5]	n/a	E750/WT	5.00	µg/L	----	18.9	18.5	----	----	

Please refer to the General Comments section for an explanation of any result qualifiers detected.

Please refer to the Accreditation section for an explanation of analyte accreditations.

January 25, 2025

*Water System Operators*

**Re: Metals in Drinking Water – “Flush” Message in Annual Reports**

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Anytime the water in a particular faucet has not been used for six hours or longer, “flush” your cold-water pipes by running the water until you notice a change in temperature. *(This could take as little as five to thirty seconds if there has been recent heavy water use such as showering or toilet flushing. Otherwise, it could take two minutes or longer.)* The more time water has been sitting in your home's pipes, the more lead it may contain.

Use only water from the cold tap for drinking, cooking, and especially making baby formula. Hot water is likely to contain higher levels of lead.

The two actions recommended above are very important to the health of your family. They will probably be effective in reducing lead levels because most of the lead in household water usually comes from the plumbing in your house, not from the local water supply.

Conserving water is still important. Rather than just running the water down the drain you could use the water for things such as watering your plants.

If you have any questions, please contact our Drinking Water Program at 604-870-7903 or 1-866-749-7900.

Sincerely,

Alex Kwan  
Acting Manager, Drinking Water Program  
Fraser Health Authority  
[HPLand@fraserhealth.ca](mailto:HPLand@fraserhealth.ca)

# Village of Harrison Hot Springs

## Water Sample Schedule 2025

<b>Date</b>	<b>Site 1</b>	<b>Site 2</b>	<b>Site 3</b>	
January				
6	290 Esplanade	170 Cedar	98 Rockwell Dr	
12	Beach Washrooms	Echo (Spring Park)		
19	Public Works Office	Boatlaunch Washrooms	98 Rockwell Dr	
26	Peace Park	459 naismith		
February				
3	973 Hotsprings Rd/Tap	Water Treatment Plant	98 Rockwell Dr	
10	Community Garden	290 Esplanade		
17	442 Pine	Beach Washrooms	98 Rockwell Dr	
24	843 Myng	Public Works Office		
March				
3	Peace Park	973 Hotsprings Rd/Tap	98 Rockwell Dr	
10	170 Cedar	Community Garden		
17	Boatlaunch Washrooms	442 Pine	98 Rockwell Dr	
24	Echo (Spring Park)	843 Myng		
31	459 naismith	Water Treatment Plant	98 Rockwell Dr	
April				
7	290 Esplanade	170 Cedar		
14	Beach Washrooms	Echo (Spring Park)	98 Rockwell Dr	
21	Public Works Office	Boatlaunch Washrooms		
28	Peace Park	459 naismith	98 Rockwell Dr	
May				
5	973 Hotsprings Rd/Tap	Water Treatment Plant		Lake Samples x3
12	Community Garden	290 Esplanade		Lake Samples x3
19	442 Pine	Beach Washrooms	98 Rockwell Dr	Lake Samples x3
26	843 Myng	Public Works Office		Lake Samples x3
June				
2	Peace Park	973 Hotsprings Rd/Tap	98 Rockwell Dr	Lake Samples x3
9	170 Cedar	Community Garden		Lake Samples x3
16	Boatlaunch Washrooms	442 Pine	98 Rockwell Dr	Lake Samples x3
23	Echo (Spring Park)	843 Myng		Lake Samples x3
30	459 naismith	Water Treatment Plant	98 Rockwell Dr	Lake Samples x3
July				
7	290 Esplanade	170 Cedar		Lake Samples x3
14	Beach Washrooms	Echo (Spring Park)	98 Rockwell Dr	Lake Samples x3
21	Public Works Office	Boatlaunch Washrooms		Lake Samples x3
28	Peace Park	459 naismith	98 Rockwell Dr	Lake Samples x3
August				
4	973 Hotsprings Rd/Tap	Water Treatment Plant		Lake Samples x3
11	Community Garden	290 Esplanade	98 Rockwell Dr	Lake Samples x3
18	442 Pine	Beach Washrooms		Lake Samples x3
25	843 Myng	Public Works Office	98 Rockwell Dr	Lake Samples x3

# Village of Harrison Hot Springs

## Water Sample Schedule 2025

<u>Water Sample Schedule 2025</u>				
September				
1	Peace Park	973 Hotsprings Rd/Tap		Lake Samples x3
8	170 Cedar	Community Garden	98 Rockwell Dr	Lake Samples x3
15	Boatlaunch Washrooms	442 Pine		Lake Samples x3
22	Echo (Spring Park)	843 Myng	98 Rockwell Dr	Lake Samples x3
29	459 naismith	Water Treatment Plant		Lake Samples x3
October				
6	290 Esplanade	170 Cedar	98 Rockwell Dr	
13	Beach Washrooms	Echo (Spring Park)		
20	Public Works Office	Boatlaunch Washrooms	98 Rockwell Dr	
27	Peace Park	459 naismith		
November				
3	973 Hotsprings Rd/Tap	Water Treatment Plant	98 Rockwell Dr	
10	Community Garden	290 Esplanade		
17	442 Pine	Beach Washrooms	98 Rockwell Dr	
24	843 Myng	Public Works Office		
December				
1	Peace Park	973 Hotsprings Rd/Tap	98 Rockwell Dr	
8	170 Cedar	Community Garden		
15	Boatlaunch Washrooms	442 Pine	98 Rockwell Dr	
22	Echo (Spring Park)	843 Myng		
29	459 naismith	Water Treatment Plant	98 rockwell Dr	