

DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period: January 1st to December 31st, 2025 (year)**Water System** Rockwell bay Water System**Water System Owner** District of Kent**Primary Contact Name (Operator or Manager)** Steven Nuttall**Phone Number (Operator or Manager)** 604-796-9145**E-mail (Operator or Manager)** snuttall@kentbc.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) Municipal Hall Binder**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) Municipal Hall Binder

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):

None

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? 38

What is the minimum required sampling frequency for this system? (#samples/month) 4

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	☒ 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.

Date	TC/100ml	E.coli/100ml	Reason	Corrective Action
22-Sep-2025	5.3	LT1	Unkown	Flush and retest
06-Oct-2025	1	LT1	Unknown	Flush and retest

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
Generator to be installed	30-Mar-2026
New reservoir hatch to be installed	09-Feb-2027

DATE COMPLETED: 04-May-2026

COMPLETED BY: Steven Nuttall

February 4, 2026

Water System Operators

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

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 604-870-7900.

Sincerely,

Emily McGuire
Manager, Drinking Water Program
Fraser Health Authority
HPLand@fraserhealth.ca

Sample Range Report

Fraser Health Authority

Facility Name: Rockwell Bay Estates Water System

Date Range: Jan 1 2025 to Oct 21 2025

Operator Steve Nuttall
Box 70
Agassiz, BC V0M 1A0

Sampling Site	Date Collected	Total Coliform	E. Coli	Fecal Coliform
<u>Rockwell Drive</u>				
<u>Pumphouse,</u>				
<u>Rockwell Drive</u>				
	1-7-2025 10:00:00 AM	LT1	LT1	
	2-11-2025 10:40:00 AM	LT1	LT1	
	2-18-2025 11:40:00 AM	LT1	LT1	
	3-18-2025 10:25:00 AM	LT1	LT1	
	4-15-2025 9:45:00 AM	LT1	LT1	
	5-12-2025 10:40:00 AM	LT1	LT1	
	6-10-2025 9:45:00 AM	LT1	LT1	
	7-14-2025 10:10:00 AM	LT1	LT1	
	8-11-2025 11:25:00 AM	LT1	LT1	
	9-8-2025 10:05:00 AM	LT1	LT1	
	10-14-2025 10:20:00 AM	<u>LT1</u>	<u>LT1</u>	
	Total Positive:	0	0	0
<u>Sample Port 102,</u>				
<u>7501 Rockwell Place</u>				
	1-21-2025 10:00:00 AM	LT1	LT1	
	3-3-2025 10:55:00 AM	LT1	LT1	
	3-31-2025 10:50:00 AM	LT1	LT1	
	4-28-2025 12:00:00 PM	LT1	LT1	
	5-26-2025 10:30:00 AM	LT1	LT1	
	6-24-2025 11:15:00	LT1	LT1	

AM			
7-28-2025 10:15:00	LT1	LT1	
AM			
8-25-2025 10:10:00	LT1	LT1	
AM			
9-22-2025 10:15:00	<u>5.3</u>	<u>LT1</u>	
AM			
Total Positive:	1	0	0

Sample Port 103,
7521 Rockwell Drive

1-27-2025 11:00:00	LT1	LT1	
AM			
3-10-2025 10:15:00	LT1	LT1	
AM			
4-7-2025 11:05:00	LT1	LT1	
AM			
5-5-2025 10:35:00	LT1	LT1	
AM			
6-2-2025 10:35:00	LT1	LT1	
AM			
7-8-2025 9:55:00 AM	LT1	LT1	
8-5-2025 9:50:00 AM	LT1	LT1	
9-2-2025 10:30:00	LT1	LT1	
AM			
10-6-2025 10:30:00	<u>1</u>	<u>LT1</u>	
AM			
Total Positive:	1	0	0

Sample Port 101,

1-14-2025 9:50:00	LT1	LT1	
AM			
2-25-2025 11:20:00	LT1	LT1	
AM			
3-25-2025 10:40:00	LT1	LT1	
AM			
4-22-2025 10:25:00	LT1	LT1	
AM			
5-20-2025 9:35:00	LT1	LT1	
AM			
6-16-2025 10:05:00	LT1	LT1	
AM			
7-21-2025 10:30:00	LT1	LT1	
AM			
8-18-2025 10:10:00	LT1	LT1	
AM			
9-15-2025 9:30:00	<u>LT1</u>	<u>LT1</u>	
AM			
Total Positive:	0	0	0

Result Values:

E - estimated

L - less than

G - greater than

Samples that contain total coliform:	2	5.26% of total
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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:	2/3	
Total number of samples:	38	

Comments:

Environmental Health Officer

Oct 21 2025

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

Report Transmission Cover Page

Bill To: District of Kent Waste Water Box 70 1088 Tramner Road Agassiz, BC, Canada V0M 1A0 Attn: Accounts Payable Sampled By: Company:	Project ID: Project Name: Rockwell Bay Estates Water System Project Location: LSD: P.O.: 28126 Proj. Acct. code:	Lot ID: 1840115 Control Number: Date Received: Sep 3, 2025 Date Reported: Sep 9, 2025 Report Number: 3174820 Report Type: Final Report
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Contact	Company	Address
Accounts Payable	District of Kent Waste Water	Box 70, 1088 Tramner Road Agassiz, BC V0M 1A0 Phone: (604) 796-9145 Fax: (604) 796-9124 Email: accounting@kentbc.ca
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>
Email	PDF	Invoice
Contact	District of Kent Waste Water	P. O. Box 70, 1088 Tramner Road Agassiz, BC V1M 1A0 Phone: (604) 796-9145 Fax: (604) 796-9124 Email: rmcinroy@kentbc.ca
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>
Email - Merge	PDF	COC / Test Report
Daniel Gaudet	District of Kent Waste Water	Agassiz, BC Phone: (604) 796-9124 Fax: Email: Dgaudet@kentbc.ca
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>
Email	PDF	COA
Email - Merge	PDF	COC / Test Report
Steve Nuttall	District of Kent Waste Water	P. O. Box 70, 1088 Tramner Road Agassiz, BC V1M 1A0 Phone: (604) 796-9145 Fax: (604) 796-9124 Email: snuttall@kentbc.ca
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>
Email	PDF	COA
Email - Merge	PDF	COC / Test Report

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Analytical Report

Bill To: District of Kent Waste Water Box 70 1088 Tramner Road Agassiz, BC, Canada V0M 1A0 Attn: Accounts Payable Sampled By: Company:	Project ID: Project Name: Rockwell Bay Estates Water System Project Location: LSD: P.O.: 28126 Proj. Acct. code:	Lot ID: 1840115 Control Number: Date Received: Sep 3, 2025 Date Reported: Sep 9, 2025 Report Number: 3174820 Report Type: Final Report
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Reference Number	1840115-1
Sample Date	September 03, 2025
Sample Time	09:30
Sample Location	
Sample Description	Rockwell Pumphouse / 9.3 °C
Sample Matrix	Drinking Water

Analyte		Units	Result	Nominal DL	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.002	0.001	0.1 OG, 2.9 MAC	Below OG
Antimony	Extractable	mg/L	0.00003	0.00002	0.006	Below MAC
Arsenic	Extractable	mg/L	0.0002	0.0001	0.010	Below MAC
Barium	Extractable	mg/L	0.021	0.0001	2.0	Below MAC
Boron	Extractable	mg/L	<0.002	0.002	5	Below MAC
Cadmium	Extractable	mg/L	0.00010	0.00001	0.007	Below MAC
Chromium	Extractable	mg/L	<0.00005	0.00005	0.05	Below MAC
Copper	Extractable	mg/L	0.0011	0.0005	1 AO, 2 MAC	Below AO
Lead	Extractable	mg/L	0.00006	0.00001	0.005	Below MAC
Selenium	Extractable	mg/L	0.0008	0.0002	0.05	Below MAC
Strontium	Extractable	mg/L	0.024	0.0001	7.0	Below MAC
Uranium	Extractable	mg/L	<0.00001	0.00001	0.02	Below MAC
Vanadium	Extractable	mg/L	0.00009	0.00005		
Zinc	Extractable	mg/L	0.0014	0.0005	5.0	Below AO
Microbiological Analysis						
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	1.0	0 per 100 mL	Below MAC
Physical and Aggregate Properties						
Colour	True	Colour units	<5	5		
Turbidity		NTU	0.23	0.1		
Routine Water						
pH			6.64	0.01	7.0-10.5	Below Recommended Range
pH - Holding Time			Exceeded			
Temp. of observed pH		°C	23.7			
Electrical Conductivity	at 25 °C	µS/cm	63	1		
Calcium	Extractable	mg/L	6.9	0.01		
Iron	Extractable	mg/L	<0.004	0.004	0.1	Below AO
Magnesium	Extractable	mg/L	0.71	0.02		
Manganese	Extractable	mg/L	<0.001	0.001	0.02 AO, 0.12 MAC	Below AO
Potassium	Extractable	mg/L	0.70	0.04		
Silicon	Extractable	mg/L	4.8	0.005		
Sodium	Extractable	mg/L	1.2	0.1	200	Below AO
T-Alkalinity	as CaCO3	mg/L	7	5		
Chloride	Dissolved	mg/L	0.64	0.05	250	Below AO
Fluoride	Dissolved	mg/L	0.02	0.01	1.5	Below MAC

Analytical Report

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Sampled By: Company:		

Reference Number	1840115-1
Sample Date	September 03, 2025
Sample Time	09:30
Sample Location	
Sample Description	Rockwell Pumphouse / 9.3 °C
Sample Matrix	Drinking Water

Analyte		Units	Result	Nominal DL	Guideline Limit	Guideline Comments
Routine Water - Continued						
Nitrate - N	Dissolved	mg/L	0.11	0.01	10	Below MAC
Nitrite - N	Dissolved	mg/L	<0.01	0.01	1.0	Below MAC
Sulfate (SO4)	Dissolved	mg/L	15.4	0.1	500	Below AO
Hardness	as CaCO3 (extractable)	mg/L	20	1		
Total Dissolved Solids	Extractable	mg/L	44	1	500	Below AO

Approved by:



Reena Sharma
Operations Chemist

Data have been validated by Analytical Quality Control and Element's Integrated Data Validation System (IDVS).
Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.

Methodology and Notes

Bill To: District of Kent Waste Water Box 70 1088 Tramner Road Agassiz, BC, Canada V0M 1A0 Attn: Accounts Payable	Project ID: Project Name: Rockwell Bay Estates Water System Project Location: LSD: P.O.: 28126 Proj. Acct. code:	Lot ID: 1840115 Control Number: Date Received: Sep 3, 2025 Date Reported: Sep 9, 2025 Report Number: 3174820 Report Type: Final Report
Sampled By: Company:		

Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (BC)	APHA	* Alkalinity - Titration Method, 2320 B	Sep 04, 2025	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* Conductivity, 2510 B	Sep 04, 2025	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	* pH - Electrometric Method, 4500-H+ B	Sep 04, 2025	Element Vancouver
Anions by IEC in water (VAN)	APHA	* Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	Sep 04, 2025	Element Vancouver
Metals SemiTrace (Extractable) in water (VAN)	US EPA	* Metals & Trace Elements by ICP-AES, 6010C	Sep 08, 2025	Element Vancouver
Total and E-Coli - Collert - DW (VAN)	APHA	Enzyme Substrate Test, APHA 9223 B	Sep 03, 2025	Element Vancouver
Trace Metals (extractable) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Sep 04, 2025	Element Vancouver
True Color in water (VAN)	APHA	* Spectrophotometric - Single Wavelength Method, 2120 C	Sep 04, 2025	Element Vancouver
Turbidity - Water (VAN)	APHA	* Turbidity - Nephelometric Method, 2130 B	Sep 04, 2025	Element Vancouver

* Reference Method Modified

References

APHA Standard Methods for the Examination of Water and Wastewater
US EPA US Environmental Protection Agency Test Methods

Guidelines

Guideline Description Health Canada GCDWQ
Guideline Source Guidelines for Canadian Drinking Water Quality, Health Canada, August 2024
Guideline Comments MAC = Maximum Acceptable Concentration
AO = Aesthetic Objective
OG = Operational Guideline for Water Treatment Plants
(does not apply to private groundwater wells).
Refer to Health Canada for complete guidelines at www.hc-sc.gc.ca

The comparison of test results to guideline limits is provided for information purposes only. This is not to be taken as a statement of conformance / nonconformance to any guideline, regulation or limit. The data user is responsible for all conclusions drawn with respect to the data and is advised to consult official regulatory references when evaluating compliance.

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.

PREMISES NAME Rockwell Bay Estates Water System		Tel: (604) 796-9145 Fax: (604) 796-9124	
PREMISES ADDRESS Rockwell Dr Agassiz, BC V0M 1A0		INSPECTION DATE October 22, 2025	TIME SPENT 1 hour
OPERATOR (Person in Charge) Steve Nuttall		NEXT INSPECTION DATE 12 Months	
FACILITY TYPE ☐ WS1 (300+ connections) ☐ WS4 (1 public connection) ☒ WS2 (15-300 connections) ☐ WS9 (other) ☐ WS3 (2-14 connections)			
INSPECTION TYPE ☐ Initial ☐ Sampling ☐ Water Borne Illness Complaint ☒ Routine ☐ Investigation ☐ Follow-Up to Complaint/Referral ☐ Follow-Up ☐ Follow-Up to Lab Report ☐ Consultation ☐ Water Quality Complaint			
ACTION TAKEN ADMINISTRATIVE ☒ Information Provided ☐ No Action Required ☐ Permit Issued ☐ Rescind Public Notification		ENFORCEMENT ☐ Require Corrections ☐ Written Order ☐ Ticket Issued ☐ Order Public Notification	
		OTHER INFORMATION: (complete for Routine Inspection) EOCP (operator certification) Comply Yes Acceptable SWS Training Yes ERCP (emergency plan) Yes Annual Report Provided to Users Yes	

HAZARD RATING FOR YOUR FACILITY: ☐ High ☐ Moderate ☒ Low Total Score = 0

Critical Hazards: There are no critical hazards.

Non-Critical Hazards: There are no non-critical hazards.

Follow Up to "Critical" Violations Noted on Previous Inspections (if applicable): No corrections entered

Comments

Routine Inspection:

Source: - Deep well

- Emergency chlorination available
- Generator ordered and awaiting delivery to be installed

Storage: - Reservoir - visited weekly

- New hatch available; to be installed in Spring alongside reservoir cleaning

Distribution: - System flushed every 2 weeks due to dead end lines

- 0.4ppm chlorine residual temporarily added to the distribution due to couple of samples that came back positive for total coliforms. Latest samples are free of total coliforms

Water system services: Residential homes; mostly recreational/seasonal with a few permanent residents

Bacteriological sampling results from Jan 1 2025 to date were provided to the operator. Results met Schedule A (quality) and Schedule B (frequency) of the Drinking Water Protection Regulations. Duplicate samples run in-house.

Chemical analyses was last conducted in 2024 with all parameters meeting the Health Canada guidelines.

No changes to the Emergency Response and Contingency Plan.

Enhanced security measures in place.

Report emailed to operator

RECEIVED BY	EHO 
PRINTED NAME Steven Nuttall, Utilities Supervisor	EHO PRINTED NAME Pardip Dhaliwal

District of Kent Emergency Response and Contingency Plan Summary

The District of Kent operates and maintains three (3) drinking water supply and distribution systems: Agassiz Townsite, Harrison Highlands, and Rockwell Bay. Each system operates independently and is therefore required to have its own individual Emergency Response and Contingency Plan.

A brief overview of the sections within each of the district's water system Emergency Response Plans are as follows:

1. Detailed description of the existing water supply and distribution system infrastructure.
2. Procedures for responding to and recovering from emergency situations to bring the system into normal operations.
3. Plan to provide communication and notification to the public.
4. System specific disinfection and dichlorination procedure during and after an emergency event.
5. Regularly updated list of important contacts including contact information.

Emergency response procedures are for emergencies that require actions beyond the scope of typical day to day operations. These plans outline the necessary steps to be taken by staff in events such as, but not limited to, loss of water source, broken water mains, and contamination of water supply or storage.

A copy of the Emergency Response and Contingency Plan for each drinking water system is available at the District of Kent Municipal Hall for viewing upon request.