
Report Transmission Cover Page

Bill To: City of Parksville 100 Jensen Avenue E Parksville, BC, Canada V9P 2H3	Project ID: Project Name: THM + HAA Project Location: LSD: P.O.: Proj. Acct. code:	Lot ID: 1813966 Control Number: Date Received: May 14, 2025 Date Reported: May 23, 2025 Report Number: 3137267 Report Type: Final Report
Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville		

Contact	Company	Address
Accounts Payable	City of Parksville	100 Jensen Avenue E Parksville, BC V9P 2H3 Phone: (250) 954-4652 Email: ap@parksville.ca
		Fax:
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>
Email	PDF	Invoice
Barbara Silenieks	City of Parksville	1116 Herring Gull Way Parksville, BC V9P 1R2 Phone: (250) 951-2489 Email: bsilenieks@parksville.ca
		Fax:
<u>Delivery</u>	<u>Format</u>	<u>Deliverables</u>
Email	PDF	COA
Email - Merge	PDF	COC / Test Report
Email - Merge	Standard Crosstab Without Tabs	Test Report

Analytical Report

Bill To: City of Parksville 100 Jensen Avenue E Parksville, BC, Canada V9P 2H3	Project ID: Project Name: THM + HAA Project Location: LSD: P.O.: Proj. Acct. code:	Lot ID: 1813966 Control Number: Date Received: May 14, 2025 Date Reported: May 23, 2025 Report Number: 3137267 Report Type: Final Report
Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville		

Reference Number 1813966-1
Sample Date May 13, 2025
Sample Time 08:35
Sample Location
Sample Description Water Treatment
Plant (WTP) / 9.1 °C

Matrix Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Routine Water					
Bicarbonate	mg/L	43			5
Carbonate	mg/L	<6			6
Hydroxide	mg/L	<5			5
P-Alkalinity as CaCO ₃	mg/L	<5			5
T-Alkalinity as CaCO ₃	mg/L	36			5

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Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville		

		Reference Number	1813966-1	1813966-2	1813966-3	
		Sample Date	May 13, 2025	May 13, 2025	May 13, 2025	
		Sample Time	08:35	08:20	10:10	
		Sample Location				
		Sample Description	Water Treatment Plant (WTP) / 9.1 °C	Public Works / 9.1 °C	Community Park / 9.1 °C	
		Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit	
Haloacetic Acids - Water						
Monochloroacetic Acid	µg/L	<2.0	<2.0	<2.0	2.0	
Monobromoacetic Acid	µg/L	<2.0	<2.0	<2.0	2.0	
Dichloroacetic Acid	µg/L	6.0	12.0	8.7	2.0	
Trichloroacetic Acid	µg/L	3.3	7.3	5.4	2.0	
Bromochloroacetic Acid	µg/L	<2.0	<2.0	<2.0	2.0	
Dibromoacetic Acid	µg/L	<2.0	<2.0	<2.0	2.0	
Total Haloacetic Acids (HAA6)	µg/L	9.3	19.3	14.2	12.0	
2,3-Dibromopropionic acid	%	86	84	85	50-150	
VOC Screen - Water						
Bromodichloromethane	µg/L	3.1	7.2	6.5	0.5	
Bromoform	µg/L	<0.5	<0.5	<0.5	0.5	
Chloroform	µg/L	15.2	39.5	27.9	0.5	
Dibromochloromethane	µg/L	<0.5	<0.5	1.7	0.5	
Total Trihalomethanes	µg/L	18.3	46.7	36.1		
VOC - Water - Surrogate Recovery						
Bromofluorobenzene	EPA Surrogate	%	105	104	91	50-140
Dibromofluoromethane	EPA Surrogate	%	125	126	122	50-140
Toluene-d8	EPA Surrogate	%	113	121	121	50-140

Analytical Report

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Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville		

	Reference Number	1813966-4	1813966-5	1813966-6	
	Sample Date	May 13, 2025	May 13, 2025	May 13, 2025	
	Sample Time	10:25	10:00	10:35	
	Sample Location				
	Sample Description	Temple / 9.1 °C	Arbutus / 9.1 °C	Dafodill / 9.1 °C	
	Matrix	Water	Water	Water	
Analyte	Units	Results	Results	Results	Nominal Detection Limit
Haloacetic Acids - Water					
Monochloroacetic Acid	µg/L	<2.0	<2.0	<2.0	2.0
Monobromoacetic Acid	µg/L	<2.0	<2.0	<2.0	2.0
Dichloroacetic Acid	µg/L	5.0	11.3	3.9	2.0
Trichloroacetic Acid	µg/L	3.6	6.6	2.4	2.0
Bromochloroacetic Acid	µg/L	<2.0	<2.0	<2.0	2.0
Dibromoacetic Acid	µg/L	<2.0	<2.0	<2.0	2.0
Total Haloacetic Acids (HAA6)	µg/L	8.6	18.0	6.4	12.0
2,3-Dibromopropionic acid	%	86	74	73	50-150
VOC Screen - Water					
Bromodichloromethane	µg/L	6.3	6.4	4.6	0.5
Bromoform	µg/L	0.7	<0.5	0.7	0.5
Chloroform	µg/L	14.9	36.8	11.3	0.5
Dibromochloromethane	µg/L	3.1	<0.5	2.7	0.5
Total Trihalomethanes	µg/L	24.9	43.2	19.3	
VOC - Water - Surrogate Recovery					
Bromofluorobenzene EPA Surrogate	%	111	105	113	50-140
Dibromofluoromethane EPA Surrogate	%	126	128	124	50-140
Toluene-d8 EPA Surrogate	%	119	115	120	50-140

Analytical Report

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Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville		

Reference Number 1813966-7
Sample Date May 13, 2025
Sample Time 10:50
Sample Location
Sample Description Corfield / 9.1 °C

Matrix Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Haloacetic Acids - Water					
Monochloroacetic Acid	µg/L	<2.0			2.0
Monobromoacetic Acid	µg/L	<2.0			2.0
Dichloroacetic Acid	µg/L	5.3			2.0
Trichloroacetic Acid	µg/L	3.4			2.0
Bromochloroacetic Acid	µg/L	<2.0			2.0
Dibromoacetic Acid	µg/L	<2.0			2.0
Total Haloacetic Acids (HAA6)	µg/L	8.7			12.0
2,3-Dibromopropionic acid	%	70			50-150
VOC Screen - Water					
Bromodichloromethane	µg/L	6.0			0.5
Bromoform	µg/L	0.7			0.5
Chloroform	µg/L	14.6			0.5
Dibromochloromethane	µg/L	3.1			0.5
Total Trihalomethanes	µg/L	24.5			
VOC - Water - Surrogate Recovery					
Bromofluorobenzene EPA Surrogate	%	106			50-140
Dibromofluoromethane EPA Surrogate	%	121			50-140
Toluene-d8 EPA Surrogate	%	122			50-140

Approved by:



Rachel Eden, B. Sc.
Operations Manager

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: City of Parksville 100 Jensen Avenue E Parksville, BC, Canada V9P 2H3	Project ID: Project Name: THM + HAA Project Location: LSD: P.O.: Proj. Acct. code:	Lot ID: 1813966 Control Number: Date Received: May 14, 2025 Date Reported: May 23, 2025 Report Number: 3137267 Report Type: Final Report
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Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
Alk, pH, EC, Turb in water (BC)	APHA	* Alkalinity - Titration Method, 2320 B	May 14, 2025	Element Vancouver
Haloacetic Acids - Water	US EPA	* Determination of Haloacetic Acids and Dalapon in drinking water by liquid-liquid microextraction, derivatization, and gas chromatography with electron capture detection, 552.3	May 15, 2025	Element Calgary
VOC - BC Water	US EPA	* Volatile Organic Compounds by GCMS / Purge and Trap for Aqueous Samples, 8260/5030	May 17, 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

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.



www.Element.com

Project Information

Project ID: _____
Project Name: THM / HAA
Project Location: _____
Legal Location: _____
PO/AFE#: _____
Proj. Acct. Code: _____
Quote #: _____

Invoice To

Company: City of Parksville
Address: _____
Attention: _____
Phone: _____
Cell: _____
E-mail: _____

Government Funded Work YES / NO
SRP # _____
Agreement ID: _____

Report To

Company: City of Parksville
Address: _____
Attention: _____
Phone: _____
Cell: _____
Fax: _____

E-mail 1: bsilenieks@Parksville.ca
E-mail 2: _____
Copy of Invoice: YES / NO

Additional Reports to

1) Name: _____
E-mail: _____
2) Name: _____
E-mail: _____

Sample Custody

Sampled by: Barb Silenieks
Company: City of Parksville
I authorize Element to proceed with the work indicated on this form:
Signature: [Signature]
Date/Time: May 13 11:10

RUSH Priority

- ☐ Same Day (200%)
☐ Next Day/Two Day (100%)
☐ Three or Four Days (50%)
☒ 5 to 7 Days (Regular TAT)

When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples. If not all samples require RUSH, please indicate in the special instructions.

Report Results

- ☒ Email ☐ QA/QC
☐ Online ☒ PDF
☐ Fax ☒ Excel

Requirements

- ☐ HCDWQ ☐ SPIGEC
☐ AB Tier 1 ☐ BCCSR
Other (list below)

Date Required _____

Special Instructions/Comments (please include contact information including phone number if different from above).

	Site I.D.	Sample Description	Depth start end in cm m	Date/Time sampled	Matrix	Sampling method	#	✓	Enter tests above (✓ relevant samples below)											
									THM	HAA	Alkalinity									
1		WATER TREATMENT Plant (WTP)		May 13 8:35			5	✓	✓	✓										
2		Public Works		May 13 8:20			4	✓	✓											
3		Community Park		May 13 10:10			4	✓	✓											
4		Temple		May 13 10:25			4	✓	✓											
5		Arbutus		May 13 10:00			4	✓	✓											
6		Dafodill		May 13 10:35			4	✓	✓											
7		Portfield		May 13 10:50			4	✓	✓											
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				

Please indicate any potentially hazardous samples

Submission of this form acknowledges acceptance of Element's Standard of terms and conditions (<https://www.element.com/terms/terms-and-conditions>)

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ED 120-06

Control # _____

Lot: 1813966 COC

City of Parksville



Temp. received: 9.1 °C

Date/Time stamp: _____

Delivery Method: Courier - Puro

Waybill: _____

Received by: [Signature]