

Report Transmission Cover Page

Bill To: City of Parksville 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: THM + HAA + AI Project Location: LSD: P.O.: S23-5095 Proj. Acct. code:	Lot ID: 1754066 Control Number: Date Received: Aug 21, 2024 Date Reported: Aug 27, 2024 Report Number: 3037415 Report Type: Final Report
Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville		

Contact	Company	Address
Accounts Payable	City of Parksville	1116 Herring Gull Way Parksville, BC V9P 1R2 Phone: (250) 951-2489 Fax: Email: ap@parksville.ca
<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 Fax: Email: bsilenieks@parksville.ca
<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

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Analytical Report

Bill To: City of Parksville 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: THM + HAA + AI Project Location: LSD: P.O.: S23-5095 Proj. Acct. code:	Lot ID: 1754066 Control Number: Date Received: Aug 21, 2024 Date Reported: Aug 27, 2024 Report Number: 3037415 Report Type: Final Report
Attn: Accounts Payable Sampled By: Barb Silenieks Company: City of Parksville		

Reference Number	1754066-1	1754066-2
Sample Date	Aug 20, 2024	Aug 20, 2024
Sample Time	08:00	08:25
Sample Location		
Sample Description	WTP / 11.5 °C	Englishman River / 11.5 °C
Matrix	Water	Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Trace Metals Total					
Aluminum	Total	mg/L	0.011	0.027	0.001

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Reference Number	1754066-1	1754066-3	1754066-4
Sample Date	Aug 20, 2024	Aug 20, 2024	Aug 20, 2024
Sample Time	08:00	08:05	09:15
Sample Location			
Sample Description	WTP / 11.5 °C	PWY / 11.5 °C	Community Park / 11.5 °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	5.2	13.8	7.0	2.0	
Trichloroacetic Acid	µg/L	3.1	6.3	4.2	2.0	
Bromochloroacetic Acid	µg/L	<2.0	2.6	2.3	2.0	
Dibromoacetic Acid	µg/L	<2.0	<2.0	<2.0	2.0	
Total Haloacetic Acids (HAA6)	µg/L	8.2	22.7	13.5	12.0	
2,3-Dibromopropionic acid	%	69	68	65	50-150	
VOC Screen - Water						
Bromodichloromethane	µg/L	4.9	14.6	10.8	0.5	
Bromoform	µg/L	<0.5	<0.5	0.6	0.5	
Chloroform	µg/L	15.8	57.8	23.8	0.5	
Dibromochloromethane	µg/L	0.6	1.7	3.4	0.5	
Total Trihalomethanes	µg/L	21.3	74.0	38.5		
VOC - Water - Surrogate Recovery						
Bromofluorobenzene	EPA Surrogate	%	105	100	104	50-140
Dibromofluoromethane	EPA Surrogate	%	118	122	122	50-140
Toluene-d8	EPA Surrogate	%	112	111	114	50-140

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Reference Number	1754066-5	1754066-6
Sample Date	Aug 20, 2024	Aug 20, 2024
Sample Time	09:30	09:45
Sample Location		
Sample Description	Temple / 11.5 °C	Corfield / 11.5 °C
Matrix	Water	Water

Analyte	Units	Results	Results	Results	Nominal Detection Limit
Haloacetic Acids - Water					
Monochloroacetic Acid	µg/L	<2.0	<2.0		2.0
Monobromoacetic Acid	µg/L	<2.0	<2.0		2.0
Dichloroacetic Acid	µg/L	8.1	8.1		2.0
Trichloroacetic Acid	µg/L	5.3	5.2		2.0
Bromochloroacetic Acid	µg/L	2.6	2.6		2.0
Dibromoacetic Acid	µg/L	<2.0	<2.0		2.0
Total Haloacetic Acids (HAA6)	µg/L	16.1	15.9		12.0
2,3-Dibromopropionic acid	%	64	67		50-150
VOC Screen - Water					
Bromodichloromethane	µg/L	12.3	12.3		0.5
Bromoform	µg/L	0.5	0.5		0.5
Chloroform	µg/L	27.8	28.7		0.5
Dibromochloromethane	µg/L	3.7	3.7		0.5
Total Trihalomethanes	µg/L	44.2	45.2		
VOC - Water - Surrogate Recovery					
Bromofluorobenzene	EPA Surrogate	%	107	106	50-140
Dibromofluoromethane	EPA Surrogate	%	126	126	50-140
Toluene-d8	EPA Surrogate	%	111	114	50-140

Approved by: 
 Mike Yohemas, BSc
 General 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 1116 Herring Gull Way Parksville, BC, Canada V9P 1R2	Project ID: Project Name: THM + HAA + AI Project Location: LSD: P.O.: S23-5095 Proj. Acct. code:	Lot ID: 1754066 Control Number: Date Received: Aug 21, 2024 Date Reported: Aug 27, 2024 Report Number: 3037415 Report Type: Final Report
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Method of Analysis

Method Name	Reference	Method	Date Analysis Started	Location
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	Aug 22, 2024	Element Calgary
Trace Metals (Total) in Water (VAN)	US EPA	* Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Aug 22, 2024	Element Vancouver
VOC - BC Water	US EPA	* Volatile Organic Compounds by GCMS / Purge and Trap for Aqueous Samples, 8260/5030	Aug 22, 2024	Element Vancouver

** Reference Method Modified*

References

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.



Invoice To

Report To

Additional Reports to

Company: City of Parksville
 Address: _____
 Attention: _____
 Phone: _____
 Cell: _____
 E-mail: _____
 Government Funded Work YES / NO
 SRP # _____
 Agreement ID: _____

Company: City of Parksville
 Address: _____
 Attention: Barbara Silenicks
 Phone: _____
 Cell: _____
 Fax: _____
 E-mail 1: BSilenicks@parksville.ca
 E-mail 2: _____
 Copy of Invoice: YES / NO

1) Name: _____
 E-mail: _____
 2) Name: _____
 E-mail: _____
Sample Custody
 Sampled by: Barb Silenicks
 Company: City of Parksville
 I authorize Element to proceed with the work indicated on this form:
 Signature: [Signature]
 Date/Time: Aug. 20, 2024

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

RUSH Priority

Report Results

Requirements

- 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.

- Email QA/QC
- Online PDF
- Fax Excel

- 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	#	MeOH Field Preserved?	Enter tests above (✓ relevant samples below)														
								Aluminum	THM	HAA												
1	20TP		Aug. 20 8:00			5	✓	✓	✓													
2	Englishman River		Aug. 20 8:25			1	✓															
3	PWY		Aug. 20 8:05			4		✓	✓													
4	Community Park		Aug. 20 9:15			4		✓	✓													
5	Temple		Aug. 20 9:30			4		✓	✓													
6	Corfield		Aug. 20 9:45			4		✓	✓													
7																						
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>)

Lot: 1754066 COC
 City of Parksville

Temp. received: 11.5 °C
 Date/Time stamp: 24 AUG 21 9:20
 Delivery Method: para



Waybill: _____
 Received by: [Signature]