Element
#104, 19575-55 A Ave.
Surrey, British Columbia
V3S 8P8, Canada

T: +1 (604) 514-3322
F: +1 (604) 514-3323
E: info.vancouver@element.com
W: www.element.com

Report Transmission Cover Page

Bill To: City of Parksville
1116 Herring Gull Way
Parksville, BC, Canada
V9P 1R2
Attn: Accounts Payable
Sampled By: Barbara Silenieks
Company: City of Parksville

Project ID:
Project Name: Full Spectrum
Project Location:
LSD:
P.O.: S23-5095
Proj. Acct. code:

Lot ID: **1733340**
Control Number:
Date Received: May 22, 2024
Date Reported: May 29, 2024
Report Number: 3006350
Report Type: Final Report

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

Delivery	Format	Deliverables
Email	PDF	Invoice

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

Delivery	Format	Deliverables
Email	PDF	COA
Email - Merge	PDF	COC / Test Report
Email - Merge	Standard Crosstab Without Tabs	Test Report

Notes To Clients:

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Analytical Report

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Date Received: May 22, 2024
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Reference Number	1733340-1	1733340-2	1733340-3
Sample Date	May 21, 2024	May 21, 2024	May 21, 2024
Sample Time	10:20	10:40	10:55
Sample Location			
Sample Description	Temple / 8.5 °C	Public Works Yard / 8.5 °C	Water Treatment Plant - finished / 8.5 °C
Matrix	Water	Water	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Inorganic Nonmetallic Parameters						
Cyanide	Total	mg/L	<0.002	<0.002	<0.002	0.002
Metals Total						
Calcium	Total	mg/L	31	8.8	8.4	0.01
Magnesium	Total	mg/L	13	1.0	0.98	0.02
Potassium	Total	mg/L	0.64	0.13	0.15	0.04
Silicon	Total	mg/L	9.6	2.4	2.2	0.005
Sodium	Total	mg/L	11	13	12	0.1
Digestion	Preparation		Field Pres, digest as total Hg	Field Pres, digest as total Hg	Field Pres, digest as total Hg	
Mercury	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Microbiological Analysis						
Total Coliforms	Enzyme Substrate Test	MPN/100 mL	<1.0	<1.0	<1.0	1.0
Escherichia coli	Enzyme Substrate Test	MPN/100 mL	<1.0	<1.0	<1.0	1.0
Physical and Aggregate Properties						
Colour	True	Colour units	<5	<5	<5	5
Turbidity		NTU	0.21	0.16	<0.10	0.1
Routine Water						
pH			7.94	7.99	7.99	1
Temp. of observed pH		°C	21.5	21.5	21.5	
Electrical Conductivity	at 25 °C	µS/cm	310	112	113	1
T-Alkalinity	as CaCO3	mg/L	118	40	41	5
Digestion	Dissolved		Lab filtered & preserved	Lab filtered & preserved	Lab filtered & preserved	
Langelier Index			0.09	-0.8	-0.8	
Saturation pH			7.85	8.8	8.8	
pH			7.94	7.99	7.99	0.01
pH - Holding Time			Exceeded	Exceeded	Exceeded	
Electrical Conductivity	at 25 °C	µS/cm	310	112	113	1
T-Alkalinity	as CaCO3	mg/L	118	40	41	5
Chloride	Dissolved	mg/L	22.4	9.76	9.95	0.05
Fluoride	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Nitrate - N	Dissolved	mg/L	1.00	0.02	0.03	0.01
Nitrite - N	Dissolved	mg/L	<0.01	<0.01	<0.01	0.01
Sulfate (SO4)	Dissolved	mg/L	5.7	1.6	1.6	0.1
Hardness	as CaCO3 (dissolved)	mg/L	128	26	27	5
Total Dissolved Solids	Calculated	mg/L	183	63	65	1
Trace Metals Total						
Aluminum	Total	mg/L	0.004	0.018	0.013	0.001

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Company: City of Parksville

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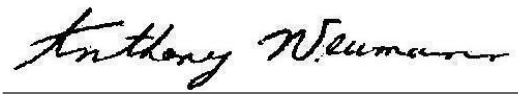
Sample Description	Temple / 8.5 °C	Public Works Yard / 8.5 °C	Water Treatment Plant - finished / 8.5 °C
Matrix	Water	Water	Water

Analyte		Units	Results	Results	Results	Nominal Detection Limit
Trace Metals Total - Continued						
Antimony	Total	mg/L	0.00005	0.00002	0.00002	0.00002
Arsenic	Total	mg/L	0.0003	0.0002	0.0002	0.0001
Barium	Total	mg/L	0.018	0.011	0.012	0.0001
Boron	Total	mg/L	0.014	0.012	0.012	0.002
Cadmium	Total	mg/L	<0.00001	<0.00001	<0.00001	0.00001
Chromium	Total	mg/L	0.00061	0.00012	0.00012	0.00005
Copper	Total	mg/L	0.013	0.0028	0.0011	0.0002
Iron	Total	mg/L	0.019	0.011	0.020	0.002
Lead	Total	mg/L	0.00050	0.00020	0.00002	0.00001
Manganese	Total	mg/L	0.004	0.003	0.004	0.001
Selenium	Total	mg/L	<0.0002	<0.0002	<0.0002	0.0002
Strontium	Total	mg/L	0.095	0.037	0.038	0.0001
Uranium	Total	mg/L	0.00020	<0.00001	<0.00001	0.00001
Zinc	Total	mg/L	0.093	0.062	0.054	0.0005

Approved by:



Anthony Neumann, MSc
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.

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Methodology and Notes

Bill To: City of Parksville
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V9P 1R2
Attn: Accounts Payable
Sampled By: Barbara Silenieks
Company: City of Parksville

Project ID:
Project Name: Full Spectrum
Project Location:
LSD:
P.O.: S23-5095
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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 27, 2024	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	*	Alkalinity - Titration Method, 2320 B	May 27, 2024	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	*	Conductivity, 2510 B	May 27, 2024	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	*	Conductivity, 2510 B	May 27, 2024	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	*	pH - Electrometric Method, 4500-H+ B	May 27, 2024	Element Vancouver
Alk, pH, EC, Turb in water (BC)	APHA	*	pH - Electrometric Method, 4500-H+ B	May 27, 2024	Element Vancouver
Alkalinity, pH, and EC in water	APHA	*	Alkalinity - Titration Method, 2320 B	May 23, 2024	Element Edmonton - Roper Road
Alkalinity, pH, and EC in water	APHA	*	Conductivity, 2510 B	May 23, 2024	Element Edmonton - Roper Road
Alkalinity, pH, and EC in water	APHA	*	pH - Electrometric Method, 4500-H+ B	May 23, 2024	Element Edmonton - Roper Road
Anions by IEC in water (VAN)	APHA	*	Ion Chromatography with Chemical Suppression of Eluent Cond., 4110 B	May 22, 2024	Element Vancouver
Colour (True) in water (Edmonton)	APHA	*	Visual Comparison Method, 2120 B	May 25, 2024	Element Edmonton - Roper Road
Cyanide (Total) in water	US EPA	*	US EPA method, 335.3	May 28, 2024	Element Edmonton - Roper Road
Mercury Low Level (Total) in water (VAN)	EPA	*	Mercury in Water by Cold Vapor Atomic Fluorescence Spectrometry, 245.7	May 24, 2024	Element Vancouver
Metals SemiTrace (Dissolved) in water (VAN)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	May 22, 2024	Element Vancouver
Metals SemiTrace (Total) in Water (VAN)	US EPA	*	Metals & Trace Elements by ICP-AES, 6010C	May 23, 2024	Element Vancouver
Total and E-Coli - Colilert - DW (VAN)	APHA		Enzyme Substrate Test, APHA 9223 B	May 22, 2024	Element Vancouver
Trace Metals (Total) in Water (VAN)	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	May 23, 2024	Element Vancouver
Turbidity - Water (VAN)	APHA	*	Turbidity - Nephelometric Method, 2130 B	May 23, 2024	Element Vancouver

** Reference Method Modified*

References

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

element
www.Element.com

Project Information

Project ID:
Project Name: Full Spec.
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:
Date/Time: MAY 21, 11:30

RUSH Priority

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

Date Required

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
- ☐ Online
- ☐ Fax
- ☐ QA/QC
- ☑ PDF
- ☑ Excel

Requirements

- ☐ HCDWQ
- ☐ AB Tier 1
- ☐ SPIGEC
- ☐ BCCSR

Other (list below)

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

	Site I.D.	Sample Description	Depth start	Depth end	Date/Time sampled	Matrix	Sampling method	Number of Containers #	MeOH Field Preserved? ✓	Routine	Microbiology	Total Metals	Mercury	Cyanide
			in cm	m						Enter tests above (✓ relevant samples below)				
1	Temple	temp@site-			10:20 MAY 21			5		✓	✓	✓	✓	✓
2	Public Works Yard				10:40 MAY 21			5		✓	✓	✓	✓	✓
3	Water Treatment Plant - finished				10:55 MAY 21			5		✓	✓	✓	✓	✓
4	Englishman River													
5														
6														
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)

Page _____ of _____ Control #

ED 120-06

Lot: 1733340 COC

Temp. received: 8.5 °C
Date/Time stamp: 24 MAY 22 9:19
Delivery Method: Pick
Waybill:
Received by: