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**Report Transmission Cover Page**

|                                                                                         |                                                                                                 |                                                                                                                                                                |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bill To: City of Parksville<br>100 Jensen Avenue E<br>Parksville, BC, Canada<br>V9P 2H3 | Project ID:<br>Project Name: THM HAA<br>Project Location:<br>LSD:<br>P.O.:<br>Proj. Acct. code: | Lot ID: <b>1835162</b><br>Control Number:<br>Date Received: Aug 13, 2025<br>Date Reported: Aug 20, 2025<br>Report Number: 3167742<br>Report Type: Final Report |
| Attn: Accounts Payable<br>Sampled By: Barb Silenieks<br>Company: City of Parksville     |                                                                                                 |                                                                                                                                                                |

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| Contact           | Company                        | Address                                                                                                     |
|-------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------|
| Accounts Payable  | City of Parksville             | 100 Jensen Avenue E<br>Parksville, BC V9P 2H3<br>Phone: (250) 954-4652<br>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<br>Parksville, BC V9P 1R2<br>Phone: (250) 951-2489<br>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     | Project ID:       |         | Lot ID:         | <b>1835162</b> |
|             | 100 Jensen Avenue E    | Project Name:     | THM HAA | Control Number: |                |
|             | Parksville, BC, Canada | Project Location: |         | Date Received:  | Aug 13, 2025   |
|             | V9P 2H3                | LSD:              |         | Date Reported:  | Aug 20, 2025   |
| Attn:       | Accounts Payable       | P.O.:             |         | Report Number:  | 3167742        |
| Sampled By: | Barb Silenieks         | Proj. Acct. code: |         | Report Type:    | Final Report   |
| Company:    | City of Parksville     |                   |         |                 |                |

|                    |              |
|--------------------|--------------|
| Reference Number   | 1835162-1    |
| Sample Date        | Aug 12, 2025 |
| Sample Time        | 08:30        |
| Sample Location    |              |
| Sample Description | WTP / 8.0 °C |

|        |       |
|--------|-------|
| Matrix | Water |
|--------|-------|

| Analyte              | Units                | Results | Results | Results | Nominal Detection Limit |
|----------------------|----------------------|---------|---------|---------|-------------------------|
| <b>Routine Water</b> |                      |         |         |         |                         |
| Bicarbonate          | mg/L                 | 48      |         |         | 5                       |
| Carbonate            | mg/L                 | <6      |         |         | 6                       |
| Hydroxide            | mg/L                 | <5      |         |         | 5                       |
| P-Alkalinity         | as CaCO <sub>3</sub> | mg/L    | <5      |         | 5                       |
| T-Alkalinity         | as CaCO <sub>3</sub> | mg/L    | 40      |         | 5                       |

## Analytical Report

|                                                                                         |                                                                                                 |                                                                                                                                                                |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bill To: City of Parksville<br>100 Jensen Avenue E<br>Parksville, BC, Canada<br>V9P 2H3 | Project ID:<br>Project Name: THM HAA<br>Project Location:<br>LSD:<br>P.O.:<br>Proj. Acct. code: | Lot ID: <b>1835162</b><br>Control Number:<br>Date Received: Aug 13, 2025<br>Date Reported: Aug 20, 2025<br>Report Number: 3167742<br>Report Type: Final Report |
| Attn: Accounts Payable<br>Sampled By: Barb Silenieks<br>Company: City of Parksville     |                                                                                                 |                                                                                                                                                                |

|                                  |               | Reference Number   | 1835162-1    | 1835162-2    | 1835162-3               |        |
|----------------------------------|---------------|--------------------|--------------|--------------|-------------------------|--------|
|                                  |               | Sample Date        | Aug 12, 2025 | Aug 12, 2025 | Aug 12, 2025            |        |
|                                  |               | Sample Time        | 08:30        | 08:20        | 09:05                   |        |
|                                  |               | Sample Location    |              |              |                         |        |
|                                  |               | Sample Description | WTP / 8.0 °C | PWY / 8.0 °C | Community Park / 8.0 °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          | 7.2                | 17.4         | 10.6         | 2.0                     |        |
| Trichloroacetic Acid             | µg/L          | 3.8                | 7.4          | 6.3          | 2.0                     |        |
| Bromochloroacetic Acid           | µg/L          | <2.0               | 3.5          | 3.1          | 2.0                     |        |
| Dibromoacetic Acid               | µg/L          | <2.0               | <2.0         | <2.0         | 2.0                     |        |
| Total Haloacetic Acids (HAA6)    | µg/L          | 11.0               | 28.3         | 19.9         | 12.0                    |        |
| 2,3-Dibromopropionic acid        | %             | 74                 | 92           | 81           | 50-150                  |        |
| VOC Screen - Water               |               |                    |              |              |                         |        |
| Bromodichloromethane             | µg/L          | 7.3                | 16.2         | 7.5          | 0.5                     |        |
| Bromoform                        | µg/L          | <0.5               | <0.5         | <0.5         | 0.5                     |        |
| Chloroform                       | µg/L          | 18.9               | 55.2         | 29.1         | 0.5                     |        |
| Dibromochloromethane             | µg/L          | 0.9                | 1.9          | 3.1          | 0.5                     |        |
| Total Trihalomethanes            | µg/L          | 27.1               | 73.2         | 39.6         |                         |        |
| VOC - Water - Surrogate Recovery |               |                    |              |              |                         |        |
| Bromofluorobenzene               | EPA Surrogate | %                  | 103          | 107          | 104                     | 50-140 |
| Dibromofluoromethane             | EPA Surrogate | %                  | 127          | 123          | 132                     | 50-140 |
| Toluene-d8                       | EPA Surrogate | %                  | 119          | 116          | 100                     | 50-140 |

## Analytical Report

|                                                                                         |                                                                                                 |                                                                                                                                                                |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bill To: City of Parksville<br>100 Jensen Avenue E<br>Parksville, BC, Canada<br>V9P 2H3 | Project ID:<br>Project Name: THM HAA<br>Project Location:<br>LSD:<br>P.O.:<br>Proj. Acct. code: | Lot ID: <b>1835162</b><br>Control Number:<br>Date Received: Aug 13, 2025<br>Date Reported: Aug 20, 2025<br>Report Number: 3167742<br>Report Type: Final Report |
| Attn: Accounts Payable<br>Sampled By: Barb Silenieks<br>Company: City of Parksville     |                                                                                                 |                                                                                                                                                                |

|                                         |       | Reference Number   | 1835162-4       | 1835162-5         | 1835162-6               |
|-----------------------------------------|-------|--------------------|-----------------|-------------------|-------------------------|
|                                         |       | Sample Date        | Aug 12, 2025    | Aug 12, 2025      | Aug 12, 2025            |
|                                         |       | Sample Time        | 09:15           | 09:40             | 08:50                   |
|                                         |       | Sample Location    |                 |                   |                         |
|                                         |       | Sample Description | Temple / 8.0 °C | Corfield / 8.0 °C | Arbutus / 8.0 °C        |
|                                         |       | Matrix             | Water           | Water             | Water                   |
| Analyte                                 | Units | Results            | Results         | Results           | Nominal Detection Limit |
| <b>Haloacetic Acids - Water</b>         |       |                    |                 |                   |                         |
| 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  | 10.4               | 10.3            | 16.5              | 2.0                     |
| Trichloroacetic Acid                    | µg/L  | 6.7                | 6.4             | 7.0               | 2.0                     |
| Bromochloroacetic Acid                  | µg/L  | 3.4                | 3.3             | 3.5               | 2.0                     |
| Dibromoacetic Acid                      | µg/L  | <2.0               | <2.0            | <2.0              | 2.0                     |
| Total Haloacetic Acids (HAA6)           | µg/L  | 20.6               | 19.9            | 26.9              | 12.0                    |
| 2,3-Dibromopropionic acid               | %     | 82                 | 86              | 87                | 50-150                  |
| <b>VOC Screen - Water</b>               |       |                    |                 |                   |                         |
| Bromodichloromethane                    | µg/L  | 12.4               | 13.2            | 16.3              | 0.5                     |
| Bromoform                               | µg/L  | <0.5               | <0.5            | <0.5              | 0.5                     |
| Chloroform                              | µg/L  | 26.6               | 26.6            | 51.3              | 0.5                     |
| Dibromochloromethane                    | µg/L  | 3.2                | 3.1             | 1.9               | 0.5                     |
| Total Trihalomethanes                   | µg/L  | 42.2               | 43.0            | 69.5              |                         |
| <b>VOC - Water - Surrogate Recovery</b> |       |                    |                 |                   |                         |
| Bromofluorobenzene EPA Surrogate        | %     | 111                | 104             | 94                | 50-140                  |
| Dibromofluoromethane EPA Surrogate      | %     | 121                | 129             | 129               | 50-140                  |
| Toluene-d8 EPA Surrogate                | %     | 113                | 114             | 116               | 50-140                  |

## Analytical Report

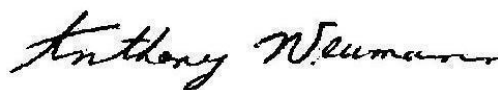
|                                                                                         |                                                                                                 |                                                                                                                                                                |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bill To: City of Parksville<br>100 Jensen Avenue E<br>Parksville, BC, Canada<br>V9P 2H3 | Project ID:<br>Project Name: THM HAA<br>Project Location:<br>LSD:<br>P.O.:<br>Proj. Acct. code: | Lot ID: <b>1835162</b><br>Control Number:<br>Date Received: Aug 13, 2025<br>Date Reported: Aug 20, 2025<br>Report Number: 3167742<br>Report Type: Final Report |
| Attn: Accounts Payable<br>Sampled By: Barb Silenieks<br>Company: City of Parksville     |                                                                                                 |                                                                                                                                                                |

**Reference Number** 1835162-7  
**Sample Date** Aug 12, 2025  
**Sample Time** 09:25  
**Sample Location**  
**Sample Description** Dafodill / 8.0 °C

**Matrix** Water

| Analyte                                 | Units | Results | Results | Results | Nominal Detection Limit |
|-----------------------------------------|-------|---------|---------|---------|-------------------------|
| <b>Haloacetic Acids - Water</b>         |       |         |         |         |                         |
| Monochloroacetic Acid                   | µg/L  | <2.0    |         |         | 2.0                     |
| Monobromoacetic Acid                    | µg/L  | <2.0    |         |         | 2.0                     |
| Dichloroacetic Acid                     | µg/L  | 9.7     |         |         | 2.0                     |
| Trichloroacetic Acid                    | µg/L  | 6.0     |         |         | 2.0                     |
| Bromochloroacetic Acid                  | µg/L  | 3.2     |         |         | 2.0                     |
| Dibromoacetic Acid                      | µg/L  | <2.0    |         |         | 2.0                     |
| Total Haloacetic Acids (HAA6)           | µg/L  | 18.9    |         |         | 12.0                    |
| 2,3-Dibromopropionic acid               | %     | 88      |         |         | 50-150                  |
| <b>VOC Screen - Water</b>               |       |         |         |         |                         |
| Bromodichloromethane                    | µg/L  | 12.3    |         |         | 0.5                     |
| Bromoform                               | µg/L  | <0.5    |         |         | 0.5                     |
| Chloroform                              | µg/L  | 24.7    |         |         | 0.5                     |
| Dibromochloromethane                    | µg/L  | 3.2     |         |         | 0.5                     |
| Total Trihalomethanes                   | µg/L  | 40.2    |         |         |                         |
| <b>VOC - Water - Surrogate Recovery</b> |       |         |         |         |                         |
| Bromofluorobenzene EPA Surrogate        | %     | 106     |         |         | 50-140                  |
| Dibromofluoromethane EPA Surrogate      | %     | 127     |         |         | 50-140                  |
| Toluene-d8 EPA Surrogate                | %     | 111     |         |         | 50-140                  |

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.

## Methodology and Notes

|                                                                                         |                                                                                                 |                                                                                                                                                                |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bill To: City of Parksville<br>100 Jensen Avenue E<br>Parksville, BC, Canada<br>V9P 2H3 | Project ID:<br>Project Name: THM HAA<br>Project Location:<br>LSD:<br>P.O.:<br>Proj. Acct. code: | Lot ID: <b>1835162</b><br>Control Number:<br>Date Received: Aug 13, 2025<br>Date Reported: Aug 20, 2025<br>Report Number: 3167742<br>Report Type: Final Report |
| Attn: Accounts Payable<br>Sampled By: Barb Silenieks<br>Company: City of Parksville     |                                                                                                 |                                                                                                                                                                |

## Method of Analysis

| Method Name                     | Reference | Method                                                                                                                                                                            | Date Analysis Started | Location          |
|---------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------|
| Alk, pH, EC, Turb in water (BC) | APHA      | * Alkalinity - Titration Method, 2320 B                                                                                                                                           | Aug 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 | Aug 18, 2025          | Element Calgary   |
| VOC - BC Water                  | US EPA    | * Volatile Organic Compounds by GCMS / Purge and Trap for Aqueous Samples, 8260/5030                                                                                              | Aug 14, 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.





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### Project Information

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

**Invoice To**  
Company: City of Parkville  
Address: \_\_\_\_\_  
Attention: \_\_\_\_\_  
Phone: \_\_\_\_\_  
Cell: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
Government Funded Work YES / NO  
SRP # \_\_\_\_\_  
Agreement ID: \_\_\_\_\_

**Report To**  
Company: City of Parkville  
Address: \_\_\_\_\_  
Attention: Barb Silenicks  
Phone: \_\_\_\_\_  
Cell: \_\_\_\_\_  
Fax: \_\_\_\_\_  
E-mail 1: BSilenicks@parkville.mo.gov  
E-mail 2: \_\_\_\_\_  
Copy of Invoice: YES / NO

**Additional Reports to**  
1) Name: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
2) Name: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
**Sample Custody**  
Sampled by: Barb Silenicks  
Company: City of Parkville  
I authorize Element to proceed with the work indicated on this form:  
Signature: BS  
Date/Time: Aug. 12 @ 10:30

### 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<br>start end<br>in cm m |  | Date/Time<br>sampled | Matrix | Sampling<br>method | # | MeOH Field Preserved? | Enter tests above<br>(✓ relevant samples below) |     |            |  |  |  |  |  |  |  |  |  |
|----|----------------|--------------------|-------------------------------|--|----------------------|--------|--------------------|---|-----------------------|-------------------------------------------------|-----|------------|--|--|--|--|--|--|--|--|--|
|    |                |                    |                               |  |                      |        |                    |   |                       | THM                                             | HAA | ALKALINITY |  |  |  |  |  |  |  |  |  |
| 1  | WTP            |                    |                               |  | 8:30 Aug 12          |        |                    |   |                       | ✓                                               | ✓   | ✓          |  |  |  |  |  |  |  |  |  |
| 2  | PWY            |                    |                               |  | 8:20 Aug 12          |        |                    |   |                       | ✓                                               | ✓   | ✓          |  |  |  |  |  |  |  |  |  |
| 3  | Community Park |                    |                               |  | 9:05 Aug 12          |        |                    |   |                       | ✓                                               | ✓   | ✓          |  |  |  |  |  |  |  |  |  |
| 4  | Temple         |                    |                               |  | 9:15 Aug 12          |        |                    |   |                       | ✓                                               | ✓   | ✓          |  |  |  |  |  |  |  |  |  |
| 5  | Cor Field      |                    |                               |  | 9:40 Aug 12          |        |                    |   |                       | ✓                                               | ✓   | ✓          |  |  |  |  |  |  |  |  |  |
| 6  | Arbutos        |                    |                               |  | 8:50 Aug 12          |        |                    |   |                       | ✓                                               | ✓   | ✓          |  |  |  |  |  |  |  |  |  |
| 7  | Dafodill       |                    |                               |  | 9:25 Aug 12          |        |                    |   |                       | ✓                                               | ✓   | ✓          |  |  |  |  |  |  |  |  |  |
| 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 1 of 1

ED 120-06

Control # \_\_\_\_\_

Lot: 1835162 COC

City of Parkville



Temp. received: 8.0 °C Date/Time stamp: 25 AUG 13 9:05

Delivery Method: Pickup

Waybill: \_\_\_\_\_

Received by: SC