# Otter Lake Solid Waste Management Facility
# Site Development and Operations Report

***Annual Report - 2025***

***Approval 2022-3051773-01***

Prepared by: Steven Copp, M.Sc.
For: MIRROR Nova Scotia

## Contents

## *1.0 Introduction*

This document has been prepared by MIRROR Nova Scotia to summarize 2025 operational activities at the Otter Lake Solid Waste Management Facility. The purpose of this report is to satisfy the requirements of Nova Scotia Environment and Climate Change (NSECC) Approval (Approval No. 2022-3051773-01) and the Operations Plans contained therein.

The Otter Lake Solid Waste Management Facility has been in operation since acceptance testing began during the summer of 1998. Subsequently, operations began on January 1st, 1999 with all processed wastes being disposed of in the Residual Disposal Facility (RDF) Cells #1 through #7.

## *2.0 Operations Overview*

As per the Approval, **Section 18 b)** outlines the information requested in the Annual Report. Relevant Approval sections and conditions, and provided information are presented below.

***Section 18 b) i)*** ***Monitoring analysis of:***
- ***(a) Air emissions***
- ***(b) Surface water***
- ***(c) Sediment***
- ***(d) Groundwater***
- ***(e) Leachate***

Quarterly monitoring of Surface water and Groundwater at the site was conducted in 2025 by Dillon Consulting and annual monitoring of sediment was also completed by Dillon during the Q3 event of 2025. Surface water, groundwater and sediment analysis is provided in the 2025 Dillon Annual Surface and Groundwater report provided under separate cover.

Further monitoring of surface water was conducted by MIRROR NS during discharges from the sedimentation ponds and during rain events. Appendix A contains the surface water discharge summary which includes the results for TSS and pH. Analytical results for the full analyses for the North and South Sedimentation Pond discharges can be found in Appendix B. There were no exceedances to TSS or pH in 2025.

The leak detection layers were pumped as needed throughout the year (weekly or monthly). Leak detection analytical data is supplied in Appendix C.

Leachate removed from site in 2025 is summarized in Table 1.

**Table 1 Leachate Volumes (Litres) by Month**

| Leachate | 2025 |
|---|---|
| January | 5,441,562 |
| February | 2,700,324 |
| March | 4,459,626 |
| April | 6,178,014 |
| May | 3,886,830 |
| June | 1,922,958 |
| July | 1,472,904 |
| August | 1,268,334 |
| September | 1,268,334 |
| October | 1,391,076 |
| November | 3,273,120 |
| December | 4,582,368 |
| | **37,845,450** |

***Section 18 b) ii)*** ***Inventory of dangerous/ waste dangerous goods which have been stored at the Facility over the past operating year and specifying what remains as of December 31 of that operating year,***

As of December 31st, 2025, there was a small amount of waste Dangerous Goods stored on site as all material removed from the waste stream are removed from site regularly. Monthly inventories are available.

***Section 18 b) iii)*** ***Analysis of solid waste handled, recorded by month and in tonnes as applicable:***

- ***a) Quantity, type, source and carrier of waste received***
- ***b) Quantity and type of banned materials removed from the FEP, RDF, Tipping Face and Waste Transfer Station***
- ***c) Quantity of material handled at each portion of the Facility (FEP, WSF, Waste Transfer Station and RDF)***
- ***d) contaminated soils/solids disposed of in the RDF, including compliance testing, quantity, the generator, and the location of the source material.***

The following tables summarize and characterize the waste received and the recyclables removed (Table 2), and the material handled at each portion of the Facility (Tables 2 and 3).

## Table 2 - Monthly Site Tonnage Summary for Otter Lake Solid Waste Management Facility (metric tons (mt))

### OTTER LAKE LANDFILL SUMMARY 2025

| OTTER LAKE | RESIDENTIAL | DIRECT TO RDF | TOTAL RECEIVED | METAL | POP BOTTLES | PAPER C/B | RDF TOTAL |
|---|---|---|---|---|---|---|---|
| January 2025 | 4,121.28 | 70.97 | 4,192.25 | - | - | - | 4,192.25 |
| February 2025 | 2,799.98 | 97.36 | 2,897.34 | - | - | - | 2,897.34 |
| March 2025 | 3,834.51 | 109.70 | 3,944.21 | - | - | - | 3,944.21 |
| April 2025 | 4,108.78 | 99.75 | 4,208.53 | - | - | - | 4,208.53 |
| May 2025 | 4,430.50 | 124.89 | 4,555.39 | 412.72 | - | - | 4,142.67 |
| June 2025 | 4,326.00 | 120.64 | 4,446.64 | - | - | - | 4,446.64 |
| July 2025 | 4,286.86 | 95.06 | 4,381.92 | - | - | - | 4,381.92 |
| August 2025 | 4,050.61 | 90.63 | 4,141.24 | - | - | - | 4,141.24 |
| September 2025 | 4,117.16 | 166.78 | 4,283.94 | 527.55 | - | - | 3,756.39 |
| October 2025 | 4,355.23 | 178.03 | 4,533.26 | | | | 4,533.26 |
| November 2025 | 3,802.59 | 78.93 | 3,881.52 | | | | 3,881.52 |
| December 2025 | 3,874.33 | 80.22 | 3,954.55 | | | | 3,954.55 |
| TOTAL | 48,107.83 | 1,312.96 | 49,420.79 | 940.27 | - | - | 48,480.52 |

## Table 3 Transfer Station Monthly Tonnage Summary (mt)

**OTTER LAKE LANDFILL TRANSFER STATION YEAR SUMMARY 2025**

| | RECEIVED: | | | | | |
|---|---|---|---|---|---|---|
| **2025** | **COMM** | **SPECIAL Compost/Haz** | **SPECIAL Handling Fee** | **EMERGENCY RESP. WASTE** | **DIRECT TO RDF** | **TOTAL RECEIVED** |
| **JAN** | 6,455.93 | 0.55 | - | - | 70.97 | 6,527.45 |
| **FEB** | 5,529.15 | 0.25 | - | - | 97.36 | 5,626.76 |
| **MARCH** | 6,872.72 | 0.54 | - | - | 109.70 | 6,982.96 |
| **APRIL** | 6,959.07 | 0.34 | - | 170.16 | 99.75 | 7,229.32 |
| **MAY** | 6,823.83 | 1.35 | - | - | 124.89 | 6,950.07 |
| **JUNE** | 6,750.55 | 1.03 | - | (209.10) | 120.64 | 6,663.12 |
| **JULY** | 7,182.63 | 0.83 | - | - | 95.06 | 7,278.52 |
| **AUG** | 6,716.32 | 0.16 | - | - | 90.63 | 6,807.11 |
| **SEPT** | 7,024.32 | 1.39 | - | - | 166.78 | 7,192.49 |
| **OCT** | 7,339.91 | 1.13 | - | - | 178.03 | 7,519.07 |
| **NOV** | 6,938.51 | 1.44 | - | - | 78.93 | 7,018.88 |
| **DEC** | 7,306.34 | 0.70 | - | - | 80.22 | 7,387.26 |
| | | | | | | |
| **TOTALS** | **81,899.28** | **9.71** | **-** | **(38.94)** | **1,312.96** | **83,183.01** |

Quantities of the contaminated solids that were disposed of directly to the RDF are summarized in Table 2 (Direct to RDF column).

The generator and location of source can be found in Appendix D with compliance testing included.

***Section 18 b) iv) summary table and discussion of Performance Audits, including discussion of progress towards Compliance Plan(s) and or Enhanced Diversion Plan(s);***

Quarterly Performance Audits are completed by Strum Environmental, with four Performance audits being completed in 2024. A summary report for the Performance Audits and the Compliance Plan is provided under separate cover.

***Section 18 b) v) Quantity, type and location of any stockpiled materials, including daily, intermediate and final cover, feedstocks,***

***etc., including summary of construction and demolition debris mix used as daily cover on the RDF, including compliance testing, quantity received and quantity used.***

There are no stockpiles of alternate cover or rock materials kept on site other than 1-2 days worth of material kept near the working face.

We keep approximately 100-200 tonnes of clay east of Cell 7 for emergency use.

Table 4 summarizes use of alternate cover, rock, clay and soil cover received during 2024.

**Table 4 Summary of Alternate Cover used for RDF**

| Month | Alternate Cover | Rock | Clay | Totals |
|---|---|---|---|---|
| January | 731.75 | 162.06 | - | 893.81 |
| February | 631.49 | 154.04 | - | 785.53 |
| March | 698.73 | 84.40 | - | 783.13 |
| April | 855.16 | 282.80 | - | 1137.96 |
| May | 202.51 | 397.69 | - | 600.2 |
| June | 855.16 | 282.80 | - | 1137.96 |
| July | 754.92 | 240.03 | - | 994.95 |
| August | 1,031.12 | 462.77 | - | 1493.89 |
| September | 599.43 | 164.19 | - | 763.62 |
| October | 1,229.97 | 161.76 | - | 1391.73 |
| November | 1,231.55 | 100.81 | - | 1332.36 |
| December | 726.31 | 149.00 | 8,520.00 | 9395.31 |
| Totals | 9548.1 | 2642.35 | 8520 | 20710.45 |

***Units = metric tonnes***

All Construction & Demolition Debris used on site as cover and was weighed on our scale in volumes reported on Table 4. All materials were supplied by Halifax C&D Ltd. Compliance testing is reported in Appendix E. There is only about 1-2 days worth of debris mix kept on hand at any time throughout the year.

Clay was placed as intermediate cover on areas of the landfill that will not be utilized in the near future.

***Section 18 b) vi) Details of any spills or releases at the Facility;***

There were no reportable spills at the facility in 2024.

***Section 18 b) vii) Any complaints and measures taken to resolve the complaints;***

No Odour complaints received in 2025.

***Section 18 b) viii)*** ***Updates to Operations & Maintenance Manual, Environmental Management Plan, and Contingency Plan documents, which shall include the dates of reviews, modifications and reasons for any modifications;***

The Operations & Maintenance Manual, Environmental Management Plan and Contingency Plan was last modified in 2024.

***Section 18 b) ix)*** ***Any violations of the conditions of this Approval and actions taken by the Approval Holders to correct those violations;***

No violations to the conditions of the Approval took place in 2025.

***Section 18 b) x)*** ***Recommendations assembled by the Site Professional(s), the Engineer(s), the Hydrogeologist(s), and any other consultant(s) or author(s) contributing to the Annual Report***

Recommendations can be reviewed in the 2025 Dillon Annual Surface and Groundwater Recommendations report.

***Section 18 b) xi)*** ***Comments from the Approval Holder(s) reporting whether each recommendation from Condition ix., above, was accepted, what action has been taken, or justification of why the recommendation has not been accepted.***

Recommendations provided in the 2025 Annual Surface and Groundwater Report are actively being considered for implementation during 2026.

In addition to the annual reporting requirements of Section 12 (presented above), the Approval also specifies operating records to be maintained.

**Section 15 k)** **The used oil holding tank at the maintenance building shall be inspected regularly, as per Industry standards. The liquid from the holding tank shall be disposed of through the services of a licensed used oil collector. The Department shall be advised in writing of the collector and final treatment for this liquid as part of the annual report.**

Waste oil was collected by GFL. A summary of the volume collected is included in Appendix G.

**Section 15 m)** **The Approval Holder shall conduct a visual inspection every two years of the RDF leachate collection system using a remote video camera or another method approved by the Department. The findings shall form part of the annual report for the year of inspection.**

Video inspection was conducted in March 2025.

## *3.0 Future Work in 2026*

In 2026, landfill operations will continue in the lowest section of Cell 7B.

- Fill Plan - For 2026, we anticipate working the lowest section of Cell 7B.
- Major Construction - We anticipate interim closure of Cell 7A in 2026.

## *4.0 Statement of Compliance*

On a continuing basis, MIRROR NS and HRM have made all reasonable efforts to maintain compliance with our Approval and operating plans while communicating any issues relating to the approval to construct and operate with NSECC.

## *5.0 Summary*

This report has summarized the operational and developmental aspects of the Otter Lake Solid Waste Management Facility during 2025. This was the twenty fifth year of operation of the facility. Incidents that did occur were managed and measures were put in place to minimize further occurrences.

# Appendix A - Surface Water Discharge Summary

| 2025 | Sample Code | Sample Location | TSS | pH |
|---|---|---|---|---|
| **January** | NSP-010125-03 | Discharge from the North Sed Pond | 8.4 | 7.82 |
| **January** | SSP-030125-06 | Discharge from the South Sed Pond | 4.8 | 7.3 |
| **January** | SW4-030125-04 | Discharge from behind the Pumphouse | 1.2 | 7.66 |
| **January** | FD-030125-05 | Discharge from Front Ditch | 1 | 6.83 |
| **January** | SSP-130125-01 | Discharge from the South Sed Pond | 3.6 | 7.52 |
| **January** | FD-0901-25-01 | Discharge from Front Ditch | 2.1 | 7.18 |
| **January Average** | | | **3.5** | **7.38** |

| 2025 | Sample Code | Sample Location | TSS | pH |
|---|---|---|---|---|
| **February** | SSP-260225-03 | Discharge from the South Sed Pond | 5.6 | 7.74 |
| **February Average** | | | **5.6** | **7.74** |

| 2025 | Sample Code | Sample Location | TSS | pH |
|---|---|---|---|---|
| **March** | NSP-030325-03 | Discharge from the North Sed Pond | 4.2 | 7.38 |
| **March** | SSP-030325-04 | Discharge from the South Sed Pond | 12 | 7.45 |
| **March** | SSP-050325-01 | Discharge from the South Sed Pond | 26 | 6.48 |
| **March** | SSP-100325-01 | Discharge from the South Sed Pond | 3 | 7.30 |
| **March** | NSP-110325-02 | Discharge from the North Sed Pond | 6.8 | 7.18 |
| **March** | SSP-140325-01 | Discharge from the South Sed Pond | 9.8 | 7.12 |
| **March** | FD-130325-03 | Discharge from Front Ditch | 2 | 8.11 |
| **March** | FD-190325-02 | Discharge from Front Ditch | 16 | 6.96 |
| **March** | SW4-190325-03 | Discharge from behind the Pumphouse | 3.2 | 7.94 |
| **March** | FD270325-02 | Discharge from Front Ditch | 6.2 | 6.94 |
| **March** | SW4-270325-03 | Discharge from behind the Pumphouse | 1.8 | 7.69 |
| **March Average** | | | **8.3** | **7.32** |

| 2025 | Sample Code | Sample Location | TSS | pH |
|---|---|---|---|---|
| **April** | FD-030425-03 | Discharge from Front Ditch | ND | 6.85 |
| **April** | SW4-030425-03 | Discharge from behind the Pumphouse | 4.4 | 7.86 |
| **April** | SSP-020425-04 | Discharge from the South Sed Pond | 5 | 7.36 |
| **April** | NSP-020425-05 | Discharge from the North Sed Pond | 3.4 | 7.28 |
| **April** | SSP-050125-01 | Discharge from the South Sed Pond | 4.4 | 7.41 |
| **April** | SSP-090425-04 | Discharge from the South Sed Pond | 6.2 | 7.43 |
| **April** | SSP-140425-04 | Discharge from the South Sed Pond | 5.6 | 7.58 |
| **April** | FD-100425-02 | Discharge from Front Ditch | 1.6 | 7.1 |
| **May** | FD-100425-02 | Discharge from Front Ditch | 2.5 | 8.17 |
| **April** | SW4-030425-03 | Discharge from behind the Pumphouse | 1.2 | 7.84 |
| **April** | FD100425-01 | Discharge from Front Ditch | 5 | 7.31 |
| **April Average** | | | **3.9** | **7.47** |

| 2025 | Sample Code | Sample Location | TSS | pH |
|---|---|---|---|---|
| **May** | FD-010525-03 | Discharge from Front Ditch | 2.4 | 7.27 |
| **May** | SSP-010525-04 | Discharge from the South Sed Pond | 3.6 | 7.88 |
| **May** | SW4-080525-02 | Discharge from behind the Pumphouse | 40 | 7.79 |
| **May** | FD-080525-03 | Discharge from Front Ditch | 3.6 | 6.81 |
| **May** | FD-220525-02 | Discharge from Front Ditch | 5.2 | 6.94 |
| **May** | SW4-220525-03 | Discharge from behind the Pumphouse | 1 | 7.59 |
| **May** | SW4-290525-03 | Discharge from behind the Pumphouse | 4 | 8.05 |
| **May** | FD-290525-03 | Discharge from Front Ditch | 3.2 | 7.45 |
| **May Average** | | | **7.9** | **7.47** |

| 2025 | Sample Code | Sample Location | TSS | pH |
|---|---|---|---|---|
| **June** | SW4-120625-02 | Discharge from behind the Pumphouse | 19 | 7.94 |
| **June** | FD-120625-03 | Discharge from Front Ditch | 3.6 | 7.52 |
| **June** | SSP-250625-01 | Discharge from the South Sed Pond | 1.6 | 7.72 |

| | | | | |
|---|---|---|---|---|
| **June Average** | | | **8.1** | **7.73** |
| | | | | |
| **2025** | **Sample Code** | **Sample Location** | **TSS** | **pH** |
| **July** | FD-030725-02 | Discharge from Front Ditch | 3.8 | 7.23 |
| **July** | FD-100725-02 | Discharge from Front Ditch | 5.2 | 7.14 |
| **July** | SSP-250725-02 | Discharge from the South Sed Pond | 1.6 | 8.09 |
| **July Average** | | | **3.5** | **7.49** |
| | | | | |
| **2025** | **Sample Code** | **Sample Location** | **TSS** | **pH** |
| **August Average** | | | **#REF!** | **#REF!** |
| | | | | |
| **2025** | **Sample Code** | **Sample Location** | **TSS** | **pH** |
| **September** | FD-110925-03 | Discharge from Front Ditch | 4.6 | 7.57 |
| **September Average** | | | **4.6** | **7.57** |
| | | | | |
| **2025** | **Sample Code** | **Sample Location** | **TSS** | **pH** |
| **October** | FD-091025-03 | Discharge from Front Ditch | 3.4 | 6.87 |
| **October** | FD-231025-03 | Discharge from Front Ditch | 2.8 | 7.32 |
| **October** | FD-301025-03 | Discharge from Front Ditch | 1.6 | 7.26 |
| **September Average** | | | **3.1** | **7.10** |
| **2025** | **Sample Code** | **Sample Location** | **TSS** | **pH** |
| **November** | SSP-101125-01 | Discharge from the South Sed Pond | 5.2 | 7.44 |
| **November** | | | | |
| **November** | | | | |
| **November** | | | | |
| **November** | | | | |
| **November** | | | | |
| **November** | | | | |
| **November** | | | | |
| **November** | | | | |
| **November Average** | | | **5.2** | **7.44** |
| | | | | |
| **2025** | **Sample Code** | **Sample Location** | **TSS** | **pH** |
| **December** | | | | |
| **December** | | | | |
| **December** | | | | |
| **December** | | | | |
| **December** | | | | |
| **December** | | | | |
| **December** | | | | |
| **December** | | | | |
| **December** | | | | |
| **December** | | | | |
| **December Average** | | | **#DIV/0!** | **#DIV/0!** |

## Appendix B - NSP/SSP Full Analysis Summary

Mirror Nova Scotia Ltd

| ELEMENTS BY ICP/MS (WATER) | | | | 25-Jan | 25-Jan | 26-Feb | 26-Feb | 3-Mar | 3-Mar | 13-Mar |
|---|---|---|---|---|---|---|---|---|---|---|
| Bureau Veritas ID | | | CCME | AMYA36 | AMYA39 | AOLU05 | AOLU05 | AOOP74 | AOOP75 | APAM16 |
| Sampling Date | | | FWAL | 2025/01/01 07:50 | 2025/01/03 09:40 | 2025/02/26 13:00 | 2025/02/26 13:00 | 2025/03/03 | 2025/03/03 | 2025/03/13 10:30 |
| COC Number | | | | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | UNITS | RDL | | NSP-010125-03 | SSP-030125-06 | SSP-260225-03 | SSP-260225-03 | NSP-030325-03 | SSP-030325-04 | SSP-140325-01 |
| **Metals** | | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 5.0 | 5-100 | 600 | 730 | 270 | 270 | 330 | 1000 | 2800 |
| Total Antimony (Sb) | ug/L | 1.0 | | ND | ND | ND | ND | ND | ND | ND |
| Total Arsenic (As) | ug/L | 1.0 | 5.0 | 1.3 | ND | ND | ND | 1.1 | ND | ND |
| Total Barium (Ba) | ug/L | 1.0 | | 20 | 41 | 48 | 48 | 17 | 37 | 33 |
| Total Beryllium (Be) | ug/L | 0.10 | | ND | ND | ND | ND | ND | ND | ND |
| Total Bismuth (Bi) | ug/L | 2.0 | | ND | ND | ND | ND | ND | ND | ND |
| Total Boron (B) | ug/L | 50 | 1500 | ND | ND | ND | ND | ND | ND | ND |
| Total Cadmium (Cd) | ug/L | 0.010 | | 0.011 | ND | 0.015 | 0.015 | 0.013 | 0.020 | 0.017 |
| Total Calcium (Ca) | ug/L | 100 | | 15000 | 28000 | 33000 | 33000 | 13000 | 17000 | 15000 |
| Total Chromium (Cr) | ug/L | 1.0 | 1.0 | ND | ND | ND | ND | ND | ND | ND |
| Total Cobalt (Co) | ug/L | 0.40 | | 0.46 | ND | ND | ND | ND | 0.45 | ND |
| Total Copper (Cu) | ug/L | 0.50 | | 3.1 | 0.56 | 1.4 | 1.4 | 2.3 | 1.2 | 0.85 |
| Total Iron (Fe) | ug/L | 50 | 300 | 850 | 98 | 280 | 280 | 380 | 600 | 410 |
| Total Lead (Pb) | ug/L | 0.50 | | 1.3 | ND | ND | ND | 0.67 | 0.59 | ND |
| Total Magnesium (Mg) | ug/L | 100 | | 1800 | 3300 | 4200 | 4200 | 1600 | 2300 | 1800 |
| Total Manganese (Mn) | ug/L | 2.0 | | 25 | 380 | 660 | 660 | 110 | 340 | 270 |
| Total Molybdenum (Mo) | ug/L | 2.0 | 73.0 | ND | ND | ND | ND | ND | ND | ND |
| Total Nickel (Ni) | ug/L | 2.0 | | ND | ND | ND | ND | ND | ND | ND |
| Total Phosphorus (P) | ug/L | 100 | | ND | ND | ND | ND | ND | ND | ND |
| Total Potassium (K) | ug/L | 100 | | 2800 | 3100 | 3400 | 3400 | 2800 | 2400 | 2200 |
| Total Selenium (Se) | ug/L | 0.50 | 1.00 | ND | ND | ND | ND | ND | ND | ND |
| Total Silver (Ag) | ug/L | 0.10 | 0.25 | ND | ND | ND | ND | ND | ND | ND |
| Total Sodium (Na) | ug/L | 100 | | 3000 | 10000 | 8100 | 8100 | 3200 | 6700 | 8600 |
| Total Strontium (Sr) | ug/L | 2.0 | | 30 | 67 | 81 | 81 | 27 | 47 | 40 |
| Total Thallium (Tl) | ug/L | 0.10 | 0.80 | ND | ND | ND | ND | ND | ND | ND |
| Total Tin (Sn) | ug/L | 2.0 | | ND | ND | ND | ND | ND | ND | ND |
| Total Titanium (Ti) | ug/L | 2.0 | | 22 | ND | 8.7 | 8.7 | 9.2 | ND (1) | 12 |
| Total Uranium (U) | ug/L | 0.10 | 15.00 | 0.66 | ND | 1.3 | 1.3 | 0.48 | 0.18 | 0.21 |
| Total Vanadium (V) | ug/L | 2.0 | | ND | ND | ND | ND | ND | ND | ND |
| Total Zinc (Zn) | ug/L | 5.0 | 30.0 | 5.7 | ND | ND | ND | 5.7 | ND | ND |
| **Calculated Parameters** | | | | | | | | | | |
| Anion Sum | me/L | N/A | | 1.10 | 2.26 | 2.29 | 2.29 | 0.880 | 1.42 | 1.31 |
| Bicarb. Alkalinity (calc. as CaC | mg/L | 1.0 | | 33 | 42 | 68 | 68 | 29 | 30 | 13 |
| Calculated TDS | mg/L | 1.0 | | 65 | 130 | 130 | 130 | 53 | 82 | 79 |
| Carb. Alkalinity (calc. as CaCO3 | mg/L | 1.0 | | ND | ND | ND | ND | ND | ND | ND |
| Cation Sum | me/L | N/A | | 1.15 | 2.18 | 2.44 | 2.44 | 1.02 | 1.41 | 1.37 |
| Hardness (CaCO3) | mg/L | 1.0 | | 46 | 83 | 99 | 99 | 40 | 52 | 46 |
| Ion Balance (% Difference) | % | N/A | | 2.22 | 1.80 | 3.17 | 3.17 | 7.37 | 0.350 | 2.24 |
| Langelier Index (@ 20C) | N/A | | | -0.800 | -1.03 | -0.272 | -0.272 | -1.34 | -1.17 | -1.90 |
| Langelier Index (@ 4C) | N/A | | | -1.05 | -1.28 | -0.522 | -0.522 | -1.59 | -1.42 | -2.15 |
| Nitrate (N) | mg/L | 0.050 | | 0.061 | 0.20 | 0.10 | 0.10 | ND | 0.13 | 0.17 |
| Saturation pH (@ 20C) | N/A | | | 8.62 | 8.30 | 8.01 | 8.01 | 8.73 | 8.62 | 9.03 |
| Saturation pH (@ 4C) | N/A | | | 8.87 | 8.55 | 8.26 | 8.26 | 8.98 | 8.87 | 9.28 |
| **Inorganics** | | | | | | | | | | |
| Total Alkalinity (Total as CaCO | mg/L | 2.0 | | 33 | 42 | 69 | 69 | 29 | 30 | 13 |
| Dissolved Chloride (Cl-) | mg/L | 1.0 | 120.0 | 7.1 | 37 | 20 | 20 | 5.5 | 21 | 31 |
| Colour | TCU | 5.0 | | 69 | ND | 10 | 10 | 44 | ND | ND |
| Nitrate + Nitrite (N) | mg/L | 0.050 | | 0.061 | 0.20 | 0.10 | 0.10 | ND | 0.14 | 0.17 |
| Nitrite (N) | mg/L | 0.010 | 2.925 | ND | ND | ND | ND | ND | 0.010 | ND |
| Nitrogen (Ammonia Nitrogen) | mg/L | 0.050 | 0.060 | ND | ND | 0.061 | 0.061 | 0.061 | 0.085 | ND |
| Total Organic Carbon (C) | mg/L | 0.50 | | 6.5 | 1.7 | 3.0 | 3.0 | 6.0 | 1.6 | 1.1 |
| Orthophosphate (P) | mg/L | 0.010 | | 0.045 | ND | ND | ND | ND | ND | ND |
| pH | pH | | 6.5-9.0 | 7.82 | 7.27 | 7.74 | 7.74 | 7.38 | 7.45 | 7.12 |
| Reactive Silica (SiO2) | mg/L | 0.50 | | 3.0 | 3.6 | 5.7 | 5.7 | 2.2 | 3.1 | 2.3 |
| Total Suspended Solids | mg/L | 1.0 | 50.0 | 8.4 | 4.8 | 5.6 | 5.6 | 4.2 | 12 | 9.8 |
| Dissolved Sulphate (SO4) | mg/L | 2.0 | | 11 | 18 | 16 | 16 | 6.7 | 10 | 8.3 |
| Turbidity | NTU | 0.10 | | 21 | 5.1 | 7.7 | 7.7 | 9.2 | 20 | 14 |
| Conductivity | uS/cm | 1.0 | | 120 | 250 | 250 | 250 | 100 | 150 | 170 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

Mirroi

| ELEMENTS BY ICP/MS (WATER) | | | | 1-May | 29-May | 29-May | 25-Jun | 25-Jul | 7-Nov | |
|---|---|---|---|---|---|---|---|---|---|---|
| Bureau Veritas ID | | | CCME | AQMH48 | ARKI66 | ARKI67 | ASKC42 | ATMH14 | AXBQ03 | |
| Sampling Date | | | FWAL | 2025/05/01 09:15 | 2025/05/29 14:20 | 2025/05/29 14:30 | 2025/06/25 16:00 | 2025/07/25 13:10 | 2025/11/07 09:15 | |
| COC Number | | | | N/A | N/A | N/A | N/A | N/A | N/A | |
| | **UNITS** | **RDL** | | **SSP-010525-04** | **SSP-290525-04** | **NSP-290525-05** | **SSP-250625-01** | **SSP-250725-02** | **SSP-071125-03** | |
| **Metals** | | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 5.0 | 5-100 | 360 | 290 | 68 | 370 | 870 | 280 | |
| Total Antimony (Sb) | ug/L | 1.0 | | ND | ND | ND | ND | ND | ND | |
| Total Arsenic (As) | ug/L | 1.0 | 5.0 | ND | 1.4 | 1.2 | 1.1 | 1.9 | ND | |
| Total Barium (Ba) | ug/L | 1.0 | | 33 | 34 | 9.9 | 35 | 30 | 21 | |
| Total Beryllium (Be) | ug/L | 0.10 | | ND | ND | ND | ND | ND | ND | |
| Total Bismuth (Bi) | ug/L | 2.0 | | ND | ND | ND | ND | ND | ND | |
| Total Boron (B) | ug/L | 50 | 1500 | ND | ND | ND | ND | ND | ND | |
| Total Cadmium (Cd) | ug/L | 0.010 | | ND | ND | 0.011 | 0.018 | ND | ND | |
| Total Calcium (Ca) | ug/L | 100 | | 28000 | 31000 | 14000 | 32000 | 29000 | 18000 | |
| Total Chromium (Cr) | ug/L | 1.0 | 1.0 | ND | ND | ND | ND | ND | ND | |
| Total Cobalt (Co) | ug/L | 0.40 | | ND | ND | ND | ND | ND | ND | |
| Total Copper (Cu) | ug/L | 0.50 | | 0.85 | 1.4 | 1.7 | 4.9 | 0.71 | 0.78 | |
| Total Iron (Fe) | ug/L | 50 | 300 | 190 | 210 | 79 | 60 | ND | 88 | |
| Total Lead (Pb) | ug/L | 0.50 | | ND | ND | ND | ND | ND | ND | |
| Total Magnesium (Mg) | ug/L | 100 | | 3200 | 3500 | 1700 | 3900 | 3800 | 2800 | |
| Total Manganese (Mn) | ug/L | 2.0 | | 180 | 130 | 11 | 45 | 20 | 29 | |
| Total Molybdenum (Mo) | ug/L | 2.0 | 73.0 | ND | ND | ND | ND | ND | ND | |
| Total Nickel (Ni) | ug/L | 2.0 | | ND | ND | ND | ND | ND | ND | |
| Total Phosphorus (P) | ug/L | 100 | | ND | ND | ND | ND | ND | ND | |
| Total Potassium (K) | ug/L | 100 | | 2400 | 2900 | 2100 | 3700 | 3900 | 3800 | |
| Total Selenium (Se) | ug/L | 0.50 | 1.00 | ND | ND | ND | ND | ND | ND | |
| Total Silver (Ag) | ug/L | 0.10 | 0.25 | ND | ND | ND | ND | ND | ND | |
| Total Sodium (Na) | ug/L | 100 | | 8700 | 6600 | 3200 | 7700 | 8200 | 9400 | |
| Total Strontium (Sr) | ug/L | 2.0 | | 66 | 78 | 32 | 79 | 75 | 48 | |
| Total Thallium (Tl) | ug/L | 0.10 | 0.80 | ND | ND | ND | ND | ND | ND | |
| Total Tin (Sn) | ug/L | 2.0 | | ND | ND | ND | ND | ND | ND | |
| Total Titanium (Ti) | ug/L | 2.0 | | 4.0 | 3.9 | ND | ND | ND | 5.3 | |
| Total Uranium (U) | ug/L | 0.10 | 15.00 | 0.43 | 1.6 | 0.67 | 1.2 | 1.4 | ND | |
| Total Vanadium (V) | ug/L | 2.0 | | ND | ND | ND | ND | ND | ND | |
| Total Zinc (Zn) | ug/L | 5.0 | 30.0 | 7.5 | 5.4 | ND | 8.0 | ND | ND | |
| **Calculated Parameters** | | | | | | | | | | |
| Anion Sum | me/L | N/A | | 2.14 | 2.02 | 0.910 | 2.17 | 2.08 | 1.70 | |
| Bicarb. Alkalinity (calc. as CaC | mg/L | 1.0 | | 53 | 68 | 34 | 72 | 66 | 38 | |
| Calculated TDS | mg/L | 1.0 | | 120 | 110 | 52 | 120 | 120 | 95 | |
| Carb. Alkalinity (calc. as CaCO | mg/L | 1.0 | | ND | ND | ND | ND | ND | ND | |
| Cation Sum | me/L | N/A | | 2.14 | 2.21 | 1.06 | 2.36 | 2.19 | 1.64 | |
| Hardness (CaCO3) | mg/L | 1.0 | | 84 | 92 | 43 | 97 | 87 | 56 | |
| Ion Balance (% Difference) | % | N/A | | 0.00 | 4.49 | 7.61 | 4.19 | 2.58 | 1.80 | |
| Langelier Index (@ 20C) | N/A | | | -0.292 | 0.0370 | -1.07 | -0.266 | 0.0190 | -1.01 | |
| Langelier Index (@ 4C) | N/A | | | -0.543 | -0.214 | -1.32 | -0.517 | -0.232 | -1.26 | |
| Nitrate (N) | mg/L | 0.050 | | 0.053 | ND | 0.060 | ND | ND | ND | |
| Saturation pH (@ 20C) | N/A | | | 8.17 | 8.03 | 8.62 | 7.99 | 8.07 | 8.51 | |
| Saturation pH (@ 4C) | N/A | | | 8.42 | 8.28 | 8.87 | 8.24 | 8.32 | 8.76 | |
| **Inorganics** | | | | | | | | | | |
| Total Alkalinity (Total as CaCO | mg/L | 2.0 | | 54 | 69 | 34 | 73 | 67 | 38 | |
| Dissolved Chloride (Cl-) | mg/L | 1.0 | 120.0 | 26 | 13 | 3.7 | 14 | 14 | 22 | |
| Colour | TCU | 5.0 | | ND | 8.4 | 31 | 5.6 | 7.8 | ND | |
| Nitrate + Nitrite (N) | mg/L | 0.050 | | 0.053 | ND | 0.060 | ND | ND | ND | |
| Nitrite (N) | mg/L | 0.010 | 2.925 | ND | ND | ND | ND | ND | ND | |
| Nitrogen (Ammonia Nitrogen) | mg/L | 0.050 | 0.060 | 0.066 | ND | ND | 0.082 | ND | 0.060 | |
| Total Organic Carbon (C) | mg/L | 0.50 | | 2.1 | 3.4 | 6.3 | 4.2 | 4.6 | 3.1 | |
| Orthophosphate (P) | mg/L | 0.010 | | ND | ND | ND | ND | 0.036 | ND | |
| pH | pH | | **6.5-9.0** | 7.88 | 8.06 | 7.55 | 7.72 | 8.09 | 7.50 | |
| Reactive Silica (SiO2) | mg/L | 0.50 | | 1.8 | 1.6 | ND | 0.70 | 0.54 | 0.64 | |
| Total Suspended Solids | mg/L | 1.0 | 50.0 | 3.6 | 3.0 | 1.4 | 1.6 | 1.6 | 4.2 | |
| Dissolved Sulphate (SO4) | mg/L | 2.0 | | 15 | 14 | 5.7 | 16 | 16 | 15 | |
| Turbidity | NTU | 0.10 | | 6.4 | 6.0 | 0.83 | 1.1 | 3.8 | 4.7 | |
| Conductivity | uS/cm | 1.0 | | 230 | 230 | 110 | 240 | 230 | 190 | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentration equal or g

# Appendix C - Leak Detection Analysis Results

Mirror Nova Scotia Ltd

| ELEMENTS BY ICP/MS (WATER) | | | 2-Jan | 25-Jan | 23-Jan | 30-Jan | 7-Feb | 13-Feb | 20-Feb |
|---|---|---|---|---|---|---|---|---|---|
| Bureau Veritas ID | | | AMYA34 | ANBX73 | ANMA24 | ANRK01 | ANWN89 | AOBI58 | AOFW45 |
| Sampling Date | | | 2025/01/02 09:00 | 2025/01/09 08:50 | 2025/01/23 09:05 | 2025/01/30 17:10 | 2025/02/07 08:45 | 2025/02/13 08:45 | 2025/02/20 07:50 |
| COC Number | | | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | UNITS | RDL | LD7-020125-02 | LD7-090125-01 | LD-230125-01 | LD-300125-02 | LD-070225-01 | LD-130225-01 | LD7-200225-02 |
| **Metals** | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 5.0 | 14 | 100 | 27 | 29 | 15 | 19 | 23 |
| Total Antimony (Sb) | ug/L | 1.0 | 1.4 | 1.6 | 1.2 | 1.1 | 1.2 | 1.2 | 1.1 |
| Total Arsenic (As) | ug/L | 1.0 | 3.1 | 3.0 | 3.0 | 2.7 | 3.1 | 2.9 | 2.9 |
| Total Barium (Ba) | ug/L | 1.0 | 120 | 100 | 100 | 100 | 83 | 92 | 86 |
| Total Beryllium (Be) | ug/L | 0.10 | ND | ND | ND | ND | ND | ND | ND |
| Total Bismuth (Bi) | ug/L | 2.0 | ND | ND | ND | ND | ND | ND | ND |
| Total Boron (B) | ug/L | 50 | 150 | 130 | 100 | 91 | 110 | 89 | 80 |
| Total Cadmium (Cd) | ug/L | 0.010 | 0.061 | 0.060 | 0.038 | 0.039 | 0.034 | 0.031 | 0.030 |
| Total Calcium (Ca) | ug/L | 100 | 93000 | 85000 | 84000 | 82000 | 66000 | 73000 | 70000 |
| Total Chromium (Cr) | ug/L | 1.0 | 1.0 | ND | ND | ND | ND | ND | ND |
| Total Cobalt (Co) | ug/L | 0.40 | 0.43 | 0.43 | ND | ND | ND | ND | ND |
| Total Copper (Cu) | ug/L | 0.50 | 8.1 | 8.2 | 5.4 | 5.0 | 5.1 | 4.4 | 3.7 |
| Total Iron (Fe) | ug/L | 50 | ND | 120 | ND | ND | ND | ND | ND |
| Total Lead (Pb) | ug/L | 0.50 | ND | 2.9 | ND | ND | ND | ND | ND |
| Total Magnesium (Mg) | ug/L | 100 | 18000 | 17000 | 17000 | 15000 | 14000 | 15000 | 15000 |
| Total Manganese (Mn) | ug/L | 2.0 | ND | 6.4 | 3.4 | 2.8 | ND | 2.3 | 2.6 |
| Total Molybdenum (Mo) | ug/L | 2.0 | 17 | 14 | 13 | 13 | 13 | 12 | 10 |
| Total Nickel (Ni) | ug/L | 2.0 | 2.8 | 2.6 | 3.0 | 2.1 | ND | ND | ND |
| Total Phosphorus (P) | ug/L | 100 | ND | ND | ND | ND | ND | ND | ND |
| Total Potassium (K) | ug/L | 100 | 4700 | 4500 | 4300 | 4500 | 4100 | 4200 | 4100 |
| Total Selenium (Se) | ug/L | 0.50 | 0.53 | ND | ND | 0.55 | ND | 0.52 | ND |
| Total Silver (Ag) | ug/L | 0.10 | ND | ND | ND | ND | ND | ND | ND |
| Total Sodium (Na) | ug/L | 100 | 220000 | 180000 | 180000 | 180000 | 180000 | 170000 | 150000 |
| Total Strontium (Sr) | ug/L | 2.0 | 480 | 450 | 460 | 450 | 360 | 400 | 410 |
| Total Thallium (Tl) | ug/L | 0.10 | ND | ND | ND | ND | ND | ND | ND |
| Total Tin (Sn) | ug/L | 2.0 | ND | ND | ND | ND | ND | ND | ND |
| Total Titanium (Ti) | ug/L | 2.0 | ND | 2.6 | ND | ND | ND | ND | ND |
| Total Uranium (U) | ug/L | 0.10 | 47 | 53 | 52 | 47 | 48 | 50 | 44 |
| Total Vanadium (V) | ug/L | 2.0 | ND | ND | ND | ND | ND | ND | ND |
| Total Zinc (Zn) | ug/L | 5.0 | 6.8 | 19 | 7.0 | 6.4 | ND | 5.4 | ND |
| **Calculated Parameters** | | | | | | | | | |
| Anion Sum | me/L | N/A | 13.3 | 13.1 | 12.3 | 11.5 | 11.3 | 11.3 | 10.8 |
| Bicarb. Alkalinity (calc. as CaC | mg/L | 1.0 | 440 | 430 | 430 | 390 | 360 | 370 | 370 |
| Calculated TDS | mg/L | 1.0 | 830 | 770 | 730 | 700 | 690 | 680 | 640 |
| Carb. Alkalinity (calc. as CaCO3 | mg/L | 1.0 | 4.4 | 4.5 | 4.4 | 3.0 | 4.0 | 3.5 | 3.2 |
| Cation Sum | me/L | N/A | 16.0 | 13.5 | 13.4 | 13.2 | 12.4 | 12.5 | 11.6 |
| Hardness (CaCO3) | mg/L | 1.0 | 310 | 280 | 280 | 270 | 220 | 240 | 240 |
| Ion Balance (% Difference) | % | N/A | 9.00 | 1.28 | 4.16 | 6.90 | 4.35 | 5.06 | 3.44 |
| Langelier Index (@ 20C) | N/A | | 1.11 | 1.10 | 1.08 | 0.915 | 0.951 | 0.930 | 0.878 |
| Langelier Index (@ 4C) | N/A | | 0.863 | 0.852 | 0.837 | 0.668 | 0.704 | 0.683 | 0.631 |
| Nitrate (N) | mg/L | 0.050 | 4.1 | 4.1 | 2.0 | 2.1 | 2.5 | 1.9 | 1.1 |
| Saturation pH (@ 20C) | N/A | | 6.91 | 6.95 | 6.96 | 7.00 | 7.12 | 7.07 | 7.08 |
| Saturation pH (@ 4C) | N/A | | 7.16 | 7.20 | 7.21 | 7.25 | 7.37 | 7.32 | 7.33 |
| **Inorganics** | | | | | | | | | |
| Total Alkalinity (Total as CaCO | mg/L | 2.0 | 450 | 440 | 430 | 400 | 370 | 370 | 380 |
| Dissolved Chloride (Cl-) | mg/L | 1.0 | 30 | 30 | 18 | 19 | 21 | 17 | 14 |
| Colour | TCU | 5.0 | 9.0 | 11 | 5.3 | 15 | 6.3 | 5.5 | 7.2 |
| Nitrate + Nitrite (N) | mg/L | 0.050 | 4.1 | 4.1 | 2.0 | 2.1 | 2.5 | 1.9 | 1.1 |
| Nitrite (N) | mg/L | 0.010 | ND | ND | ND | ND | ND | ND | ND |
| Nitrogen (Ammonia Nitrogen) | mg/L | 0.050 | ND | ND | 0.060 | ND | ND | ND | ND |
| Total Organic Carbon (C) | mg/L | 0.50 | 7.5 | 6.2 | 5.0 | 4.7 | 4.7 | 4.1 | 3.7 |
| Orthophosphate (P) | mg/L | 0.010 | 0.029 | 0.026 | 0.026 | 0.027 | 0.030 | 0.027 | 0.034 |
| pH | pH | | 8.02 | 8.05 | 8.04 | 7.92 | 8.08 | 8.00 | 7.96 |
| Reactive Silica (SiO2) | mg/L | 0.50 | 16 | 15 | 16 | 17 | 15 | 16 | 16 |
| Total Suspended Solids | mg/L | 1.0 | ND | 1.8 | 2.0 | ND | 1.2 | ND | 2.2 |
| Dissolved Sulphate (SO4) | mg/L | 2.0 | 160 | 160 | 150 | 140 | 160 | 150 | 140 |
| Turbidity | NTU | 0.10 | 0.34 | 2.7 | 0.94 | 0.71 | 0.26 | 0.71 | 1.0 |
| Conductivity | uS/cm | 1.0 | 1300 | 1300 | 1200 | 1200 | 1100 | 1100 | 1100 |

Mirro

| ELEMENTS BY ICP/MS (WATER) | | | 17-Apr | 1-May | 8-May | 16-May | 22-May | 25-May | 12-Jun |
|---|---|---|---|---|---|---|---|---|---|
| Bureau Veritas ID | | | AQGF28 | AQMH46 | AQSE07 | AQYC19 | ARDT58 | ARKI63 | ARXC38 |
| Sampling Date | | | 2025/04/24 07:15 | 2025/05/01 07:05 | 2025/05/08 07:20 | 2025/05/15 07:55 | 2025/05/22 07:10 | 2025/05/29 08:25 | 2025/06/12 07:45 |
| COC Number | | | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | UNITS | RDL | LD-170425-02 | LD7-010525-02 | LD7-080525-01 | LD7-150525-01 | LD7-220525-01 | LD7-290525-01 | LD7-120625-01 |
| **Metals** | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 5.0 | 19 | 17 | 22 | 26 | 31 | 35 | 25 |
| Total Antimony (Sb) | ug/L | 1.0 | 1.2 | 1.2 | 1.3 | 1.1 | 1.2 | 1.3 | 1.3 |
| Total Arsenic (As) | ug/L | 1.0 | 3.2 | 3.3 | 3.0 | 3.0 | 3.1 | 3.4 | 3.1 |
| Total Barium (Ba) | ug/L | 1.0 | 99 | 100 | 100 | 100 | 100 | 97 | 98 |
| Total Beryllium (Be) | ug/L | 0.10 | ND | ND | ND | ND | ND | ND | ND |
| Total Bismuth (Bi) | ug/L | 2.0 | ND | ND | ND | ND | ND | ND | ND |
| Total Boron (B) | ug/L | 50 | 110 | 130 | 100 | 100 | 110 | 100 | 94 |
| Total Cadmium (Cd) | ug/L | 0.010 | 0.035 | 0.053 | 0.040 | 0.033 | 0.031 | 0.033 | 0.031 |
| Total Calcium (Ca) | ug/L | 100 | 83000 | 87000 | 85000 | 81000 | 84000 | 80000 | 77000 |
| Total Chromium (Cr) | ug/L | 1.0 | ND | 1.3 | ND | 1.0 | ND | ND | ND |
| Total Cobalt (Co) | ug/L | 0.40 | ND | ND | ND | ND | ND | ND | ND |
| Total Copper (Cu) | ug/L | 0.50 | 5.6 | 8.3 | 5.4 | 5.9 | 6.1 | 5.2 | 4.7 |
| Total Iron (Fe) | ug/L | 50 | ND | ND | ND | ND | ND | ND | ND |
| Total Lead (Pb) | ug/L | 0.50 | ND | ND | ND | ND | ND | ND | ND |
| Total Magnesium (Mg) | ug/L | 100 | 17000 | 18000 | 18000 | 17000 | 17000 | 16000 | 16000 |
| Total Manganese (Mn) | ug/L | 2.0 | 2.2 | ND | 2.8 | 3.0 | 3.8 | 4.7 | 3.2 |
| Total Molybdenum (Mo) | ug/L | 2.0 | 11 | 11 | 11 | 9.7 | 9.7 | 11 | 11 |
| Total Nickel (Ni) | ug/L | 2.0 | 2.6 | 2.9 | 2.0 | 2.1 | 2.1 | ND | ND |
| Total Phosphorus (P) | ug/L | 100 | ND | ND | ND | ND | ND | ND | ND |
| Total Potassium (K) | ug/L | 100 | 4200 | 4300 | 4200 | 4100 | 4000 | 3900 | 4200 |
| Total Selenium (Se) | ug/L | 0.50 | 0.60 | 0.61 | 0.60 | ND | ND | 0.54 | 0.57 |
| Total Silver (Ag) | ug/L | 0.10 | ND | ND | ND | ND | ND | ND | ND |
| Total Sodium (Na) | ug/L | 100 | 170000 | 160000 | 160000 | 160000 | 170000 | 160000 | 170000 |
| Total Strontium (Sr) | ug/L | 2.0 | 450 | 470 | 470 | 430 | 440 | 440 | 440 |
| Total Thallium (Tl) | ug/L | 0.10 | ND | ND | ND | ND | ND | ND | ND |
| Total Tin (Sn) | ug/L | 2.0 | ND | ND | ND | ND | ND | ND | ND |
| Total Titanium (Ti) | ug/L | 2.0 | ND | ND | ND | ND | ND | ND | ND |
| Total Uranium (U) | ug/L | 0.10 | 54 | 50 | 54 | 48 | 47 | 53 | 54 |
| Total Vanadium (V) | ug/L | 2.0 | ND | ND | ND | ND | ND | ND | ND |
| Total Zinc (Zn) | ug/L | 5.0 | 5.1 | ND | 5.9 | 5.1 | ND | 5.4 | ND |
| **Calculated Parameters** | | | | | | | | | |
| Anion Sum | me/L | N/A | 12.5 | 13.3 | 12.3 | 11.6 | 11.4 | 11.6 | 11.6 |
| Bicarb. Alkalinity (calc. as CaC | mg/L | 1.0 | 430 | 460 | 430 | 380 | 370 | 370 | 390 |
| Calculated TDS | mg/L | 1.0 | 730 | 750 | 720 | 700 | 700 | 690 | 690 |
| Carb. Alkalinity (calc. as CaCO3 | mg/L | 1.0 | 5.8 | 6.3 | 5.2 | 4.2 | 3.9 | 4.8 | 5.2 |
| Cation Sum | me/L | N/A | 13.1 | 13.1 | 12.9 | 12.7 | 13.1 | 12.2 | 12.7 |
| Hardness (CaCO3) | mg/L | 1.0 | 280 | 290 | 280 | 270 | 280 | 260 | 260 |
| Ion Balance (% Difference) | % | N/A | 2.39 | 0.650 | 2.34 | 4.61 | 7.05 | 2.53 | 4.62 |
| Langelier Index (@ 20C) | N/A | | 1.20 | 1.25 | 1.16 | 1.05 | 1.03 | 1.11 | 1.12 |
| Langelier Index (@ 4C) | N/A | | 0.951 | 1.00 | 0.915 | 0.803 | 0.786 | 0.859 | 0.875 |
| Nitrate (N) | mg/L | 0.050 | 2.6 | 3.9 | 2.5 | 3.7 | 4.3 | 3.2 | 2.2 |
| Saturation pH (@ 20C) | N/A | | 6.96 | 6.92 | 6.95 | 7.02 | 7.02 | 7.04 | 7.03 |
| Saturation pH (@ 4C) | N/A | | 7.20 | 7.16 | 7.20 | 7.26 | 7.27 | 7.28 | 7.28 |
| **Inorganics** | | | | | | | | | |
| Total Alkalinity (Total as CaCO | mg/L | 2.0 | 440 | 460 | 430 | 380 | 370 | 370 | 390 |
| Dissolved Chloride (Cl-) | mg/L | 1.0 | 21 | 28 | 22 | ND | 25 | 21 | 19 |
| Colour | TCU | 5.0 | 11 | 14 | ND | 25 | ND | 8.9 | ND |
| Nitrate + Nitrite (N) | mg/L | 0.050 | 2.6 | 3.9 | 2.5 | 7.0 | 4.3 | 3.2 | 2.2 |
| Nitrite (N) | mg/L | 0.010 | ND | ND | ND | 3.7 | ND | ND | ND |
| Nitrogen (Ammonia Nitrogen) | mg/L | 0.050 | ND | ND | ND | ND | ND | ND | ND |
| Total Organic Carbon (C) | mg/L | 0.50 | 5.1 | 6.5 | 4.6 | 5.4 | 5.6 | 5.3 | 5.3 |
| Orthophosphate (P) | mg/L | 0.010 | 0.031 | 0.032 | 0.027 | 0.030 | 0.029 | 0.034 | 0.035 |
| pH | pH | | 8.15 | 8.16 | 8.11 | 8.07 | 8.05 | 8.14 | 8.15 |
| Reactive Silica (SiO2) | mg/L | 0.50 | 15 | 15 | 17 | 16 | 16 | 16 | 17 |
| Total Suspended Solids | mg/L | 1.0 | ND | ND | ND | 1.0 | 1.4 | 1.4 | ND |
| Dissolved Sulphate (SO4) | mg/L | 2.0 | 140 | 140 | 140 | 140 | 140 | 160 | 150 |
| Turbidity | NTU | 0.10 | 0.77 | 0.43 | 0.61 | 0.94 | 0.76 | 0.87 | 0.54 |
| Conductivity | uS/cm | 1.0 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 |

Mirro

| ELEMENTS BY ICP/MS (WATER) | | | 6-Aug | 14-Aug | 21-Aug | 28-Aug | 4-Sep | 11-Sep | 18-Sep |
|---|---|---|---|---|---|---|---|---|---|
| Bureau Veritas ID | | | ATUO55 | AUBS91 | AUJC14 | AUPO58 | AUUV03 | AVCB93 | AVIH66 |
| Sampling Date | | | 2025/08/06 08:35 | 2025/08/14 07:10 | 2025/08/21 07:10 | 2025/08/28 07:10 | 2025/09/04 09:00 | 2025/09/11 10:00 | 2025/09/18 08:50 |
| COC Number | | | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| | UNITS | RDL | LD7-060825-02 | LD7-140825-02 | LD7-210825-01 | LD7 - 280825 - 01 | LD7-040925-01 | LD7-110925-02 | LD7-180925-02 |
| **Metals** | | | | | | | | | |
| Total Aluminum (Al) | ug/L | 5.0 | 18 | 15 | 20 | 21 | 17 | 13 | 17 |
| Total Antimony (Sb) | ug/L | 1.0 | 1.3 | 1.3 | 1.2 | 1.3 | 1.2 | 1.1 | ND |
| Total Arsenic (As) | ug/L | 1.0 | 3.9 | 3.3 | 3.5 | 3.6 | 3.5 | 3.6 | 3.1 |
| Total Barium (Ba) | ug/L | 1.0 | 110 | 110 | 110 | 110 | 120 | 110 | 100 |
| Total Beryllium (Be) | ug/L | 0.10 | ND | ND | ND | ND | ND | ND | ND |
| Total Bismuth (Bi) | ug/L | 2.0 | ND | ND | ND | ND | ND | ND | ND |
| Total Boron (B) | ug/L | 50 | 110 | 94 | 99 | 110 | 99 | 94 | 110 |
| Total Cadmium (Cd) | ug/L | 0.010 | 0.022 | 0.029 | 0.025 | 0.027 | 0.029 | 0.031 | 0.022 |
| Total Calcium (Ca) | ug/L | 100 | 73000 | 72000 | 74000 | 75000 | 74000 | 77000 | 69000 |
| Total Chromium (Cr) | ug/L | 1.0 | ND | 1.1 | ND | ND | ND | ND | ND |
| Total Cobalt (Co) | ug/L | 0.40 | ND | ND | ND | ND | ND | ND | ND |
| Total Copper (Cu) | ug/L | 0.50 | 4.0 | 4.4 | 3.9 | 3.9 | 3.9 | 3.9 | 5.4 |
| Total Iron (Fe) | ug/L | 50 | ND | ND | ND | ND | ND | ND | ND |
| Total Lead (Pb) | ug/L | 0.50 | ND | ND | ND | ND | ND | ND | ND |
| Total Magnesium (Mg) | ug/L | 100 | 18000 | 18000 | 18000 | 18000 | 18000 | 18000 | 17000 |
| Total Manganese (Mn) | ug/L | 2.0 | ND | ND | ND | 2.0 | ND | ND | ND |
| Total Molybdenum (Mo) | ug/L | 2.0 | 17 | 14 | 15 | 15 | 16 | 15 | 13 |
| Total Nickel (Ni) | ug/L | 2.0 | ND | 2.1 | ND | ND | ND | ND | ND |
| Total Phosphorus (P) | ug/L | 100 | ND | ND | ND | ND | ND | ND | ND |
| Total Potassium (K) | ug/L | 100 | 4600 | 4400 | 4500 | 4700 | 4500 | 4700 | 4200 |
| Total Selenium (Se) | ug/L | 0.50 | 0.53 | ND | ND | 0.52 | 0.51 | 0.51 | ND |
| Total Silver (Ag) | ug/L | 0.10 | ND | ND | ND | ND | ND | ND | ND |
| Total Sodium (Na) | ug/L | 100 | 250000 | 250000 | 250000 | 270000 | 250000 | 260000 | 250000 |
| Total Strontium (Sr) | ug/L | 2.0 | 440 | 440 | 430 | 450 | 450 | 450 | 410 |
| Total Thallium (Tl) | ug/L | 0.10 | ND | ND | ND | ND | ND | ND | ND |
| Total Tin (Sn) | ug/L | 2.0 | ND | ND | ND | ND | ND | ND | ND |
| Total Titanium (Ti) | ug/L | 2.0 | ND | ND | ND | ND | ND | ND | ND |
| Total Uranium (U) | ug/L | 0.10 | 49 | 47 | 47 | 49 | 47 | 49 | 46 |
| Total Vanadium (V) | ug/L | 2.0 | ND | ND | ND | ND | ND | ND | ND |
| Total Zinc (Zn) | ug/L | 5.0 | 5.4 | 19 | 5.3 | 5.6 | 5.0 | 5.2 | 6.6 |
| **Calculated Parameters** | | | | | | | | | |
| Anion Sum | me/L | N/A | 14.1 | 14.5 | 14.6 | 14.6 | 14.6 | 14.2 | 15.3 |
| Bicarb. Alkalinity (calc. as CaC | mg/L | 1.0 | 550 | 570 | 580 | 580 | 580 | 560 | 620 |
| Calculated TDS | mg/L | 1.0 | 840 | 840 | 850 | 870 | 850 | 850 | 860 |
| Carb. Alkalinity (calc. as CaCO | mg/L | 1.0 | 6.8 | 6.3 | 8.3 | 7.2 | 5.6 | 3.9 | 6.0 |
| Cation Sum | me/L | N/A | 16.2 | 16.0 | 16.2 | 17.0 | 16.2 | 16.7 | 15.8 |
| Hardness (CaCO3) | mg/L | 1.0 | 260 | 250 | 260 | 260 | 260 | 270 | 240 |
| Ion Balance (% Difference) | % | N/A | 7.06 | 5.18 | 5.07 | 7.31 | 5.00 | 7.93 | 1.64 |
| Langelier Index (@ 20C) | N/A | | 1.20 | 1.15 | 1.28 | 1.22 | 1.12 | 0.973 | 1.11 |
| Langelier Index (@ 4C) | N/A | | 0.952 | 0.907 | 1.04 | 0.976 | 0.869 | 0.727 | 0.864 |
| Nitrate (N) | mg/L | 0.050 | 0.56 | 0.54 | 0.49 | 0.54 | 0.48 | 0.41 | 0.49 |
| Saturation pH (@ 20C) | N/A | | 6.92 | 6.92 | 6.90 | 6.90 | 6.90 | 6.90 | 6.90 |
| Saturation pH (@ 4C) | N/A | | 7.17 | 7.17 | 7.15 | 7.14 | 7.15 | 7.14 | 7.15 |
| **Inorganics** | | | | | | | | | |
| Total Alkalinity (Total as CaCO | mg/L | 2.0 | 550 | 570 | 580 | 590 | 580 | 560 | 620 |
| Dissolved Chloride (Cl-) | mg/L | 1.0 | 12 | 11 | 11 | 11 | 11 | 11 | 11 |
| Colour | TCU | 5.0 | 8.0 | 5.5 | 6.8 | 7.2 | ND | 7.6 | 5.9 |
| Nitrate + Nitrite (N) | mg/L | 0.050 | 0.56 | 0.54 | 0.49 | 0.54 | 0.48 | 0.41 | 0.49 |
| Nitrite (N) | mg/L | 0.010 | ND | ND | ND | ND | ND | ND | ND |
| Nitrogen (Ammonia Nitrogen) | mg/L | 0.050 | 0.089 | ND | ND | ND | ND | ND | ND |
| Total Organic Carbon (C) | mg/L | 0.50 | 6.9 | 6.8 | 6.7 | 6.7 | 6.8 | 6.5 | 6.4 |
| Orthophosphate (P) | mg/L | 0.010 | 0.037 | 0.036 | 0.037 | 0.037 | 0.032 | 0.032 | 0.033 |
| pH | pH | | 8.12 | 8.07 | 8.18 | 8.12 | 8.02 | 7.87 | 8.02 |
| Reactive Silica (SiO2) | mg/L | 0.50 | 16 | 17 | 16 | 16 | 16 | 17 | 16 |
| Total Suspended Solids | mg/L | 1.0 | 1.4 | 1.4 | ND | 1.2 | ND | ND | 1.8 |
| Dissolved Sulphate (SO4) | mg/L | 2.0 | 130 | 130 | 120 | 120 | 120 | 130 | 120 |
| Turbidity | NTU | 0.10 | 1.3 | 1.4 | 1.4 | 0.91 | 0.59 | 0.35 | 0.69 |
| Conductivity | uS/cm | 1.0 | 1400 | 1500 | 1500 | 1400 | 1400 | 1400 | 1400 |

Mirro

| ELEMENTS BY ICP/MS (WATER) | | | 13-Nov | 26-Nov | 4-Dec | 11-Dec | 18-Dec | 30-Dec |
|---|---|---|---|---|---|---|---|---|
| Bureau Veritas ID | | | AXHZ95 | AXUU51 | AYBN53 | AYHN07 | AYNV31 | AYSO98 |
| Sampling Date | | | 2025/11/13 09:05 | 2025/11/26 08:35 | 2025/12/04 08:20 | 2025/12/11 08:30 | 2025/12/18 08:37 | 2025/12/30 09:00 |
| COC Number | | | N/A | N/A | N/A | N/A | N/A | N/A |
| | **UNITS** | **RDL** | **LD7-131125-01** | **LD7-261125-02** | **LD7-041225-01** | **LD7-111225-01** | **LD7-181225-02** | **LD7-301225-02** |
| **Metals** | | | | | | | | |
| Total Aluminum (Al) | ug/L | 5.0 | 7.4 | 12 | 7.1 | 19 | 18 | 13 |
| Total Antimony (Sb) | ug/L | 1.0 | ND | 1.1 | 1.0 | 1.1 | 1.1 | 1.5 |
| Total Arsenic (As) | ug/L | 1.0 | 3.3 | 3.3 | 3.2 | 2.9 | 3.3 | 2.5 |
| Total Barium (Ba) | ug/L | 1.0 | 100 | 100 | 110 | 95 | 100 | 94 |
| Total Beryllium (Be) | ug/L | 0.10 | ND | ND | ND | ND | ND | ND |
| Total Bismuth (Bi) | ug/L | 2.0 | ND | ND | ND | ND | ND | ND |
| Total Boron (B) | ug/L | 50 | 200 | 140 | 150 | 120 | 120 | 120 |
| Total Cadmium (Cd) | ug/L | 0.010 | 0.051 | 0.047 | 0.045 | 0.036 | 0.032 | 0.034 |
| Total Calcium (Ca) | ug/L | 100 | 88000 | 80000 | 88000 | 76000 | 76000 | 70000 |
| Total Chromium (Cr) | ug/L | 1.0 | ND | ND | ND | ND | ND | ND |
| Total Cobalt (Co) | ug/L | 0.40 | 0.56 | ND | ND | ND | ND | ND |
| Total Copper (Cu) | ug/L | 0.50 | 8.5 | 7.4 | 7.2 | 6.4 | 5.6 | 5.8 |
| Total Iron (Fe) | ug/L | 50 | ND | ND | ND | 110 | ND | ND |
| Total Lead (Pb) | ug/L | 0.50 | ND | ND | ND | ND | ND | ND |
| Total Magnesium (Mg) | ug/L | 100 | 18000 | 17000 | 18000 | 17000 | 17000 | 16000 |
| Total Manganese (Mn) | ug/L | 2.0 | ND | 2.4 | ND | 2.3 | ND | ND |
| Total Molybdenum (Mo) | ug/L | 2.0 | 7.0 | 7.7 | 7.3 | 7.4 | 11 | 8.1 |
| Total Nickel (Ni) | ug/L | 2.0 | 2.8 | 2.4 | 3.0 | 2.2 | ND | 2.1 |
| Total Phosphorus (P) | ug/L | 100 | ND | ND | ND | ND | ND | ND |
| Total Potassium (K) | ug/L | 100 | 4400 | 4300 | 4300 | 3900 | 4200 | 3900 |
| Total Selenium (Se) | ug/L | 0.50 | 0.56 | ND | ND | ND | 0.51 | ND |
| Total Silver (Ag) | ug/L | 0.10 | ND | ND | ND | ND | ND | ND |
| Total Sodium (Na) | ug/L | 100 | 160000 | 180000 | 170000 | 170000 | 190000 | 180000 |
| Total Strontium (Sr) | ug/L | 2.0 | 470 | 450 | 460 | 430 | 440 | 390 |
| Total Thallium (Tl) | ug/L | 0.10 | ND | ND | ND | ND | ND | ND |
| Total Tin (Sn) | ug/L | 2.0 | ND | ND | ND | ND | ND | ND |
| Total Titanium (Ti) | ug/L | 2.0 | ND | ND | ND | ND | ND | ND |
| Total Uranium (U) | ug/L | 0.10 | 35 | 39 | 39 | 38 | 46 | 37 |
| Total Vanadium (V) | ug/L | 2.0 | ND | ND | ND | ND | ND | ND |
| Total Zinc (Zn) | ug/L | 5.0 | 7.3 | 5.6 | ND | 6.4 | 5.7 | 7.7 |
| **Calculated Parameters** | | | | | | | | |
| Anion Sum | me/L | N/A | 12.7 | 12.3 | 12.3 | 12.0 | 11.4 | 11.8 |
| Bicarb. Alkalinity (calc. as CaC | mg/L | 1.0 | 400 | 420 | 420 | 410 | 400 | 380 |
| Calculated TDS | mg/L | 1.0 | 750 | 740 | 730 | 700 | 700 | 710 |
| Carb. Alkalinity (calc. as CaCO3 | mg/L | 1.0 | 4.3 | 4.9 | 5.8 | 4.5 | 4.2 | 3.0 |
| Cation Sum | me/L | N/A | 13.1 | 13.5 | 13.4 | 12.6 | 13.5 | 12.6 |
| Hardness (CaCO3) | mg/L | 1.0 | 290 | 270 | 300 | 260 | 260 | 240 |
| Ion Balance (% Difference) | % | N/A | 1.51 | 4.69 | 3.97 | 2.37 | 8.31 | 3.44 |
| Langelier Index (@ 20C) | N/A | | 1.09 | 1.11 | 1.23 | 1.06 | 1.03 | 0.841 |
| Langelier Index (@ 4C) | N/A | | 0.842 | 0.863 | 0.979 | 0.808 | 0.781 | 0.594 |
| Nitrate (N) | mg/L | 0.050 | 9.3 | 6.6 | 7.0 | 5.3 | 4.0 | 4.6 |
| Saturation pH (@ 20C) | N/A | | 6.96 | 6.98 | 6.94 | 7.01 | 7.02 | 7.08 |
| Saturation pH (@ 4C) | N/A | | 7.21 | 7.23 | 7.19 | 7.26 | 7.27 | 7.33 |
| **Inorganics** | | | | | | | | |
| Total Alkalinity (Total as CaCO | mg/L | 2.0 | 410 | 430 | 430 | 420 | 400 | 390 |
| Dissolved Chloride (Cl-) | mg/L | 1.0 | 27 | 21 | 21 | 20 | 16 | 21 |
| Colour | TCU | 5.0 | 13 | ND | 6.7 | 6.5 | ND | 7.2 |
| Nitrate + Nitrite (N) | mg/L | 0.050 | 9.3 | 6.6 | 7.0 | 5.3 | 4.0 | 4.6 |
| Nitrite (N) | mg/L | 0.010 | ND | ND | ND | ND | ND | ND |
| Nitrogen (Ammonia Nitrogen) | mg/L | 0.050 | 0.059 | 0.061 | ND | ND | ND | 0.059 |
| Total Organic Carbon (C) | mg/L | 0.50 | 110 | 5.9 | 5.9 | 5.3 | 40 | 5.3 |
| Orthophosphate (P) | mg/L | 0.010 | 0.029 | 0.030 | 0.030 | 0.052 | 0.045 | 0.027 |
| pH | pH | | 8.05 | 8.09 | 8.17 | 8.07 | 8.05 | 7.92 |
| Reactive Silica (SiO2) | mg/L | 0.50 | 15 | 16 | 14 | 15 | 15 | 16 |
| Total Suspended Solids | mg/L | 1.0 | ND | ND | ND | 1.2 | ND | ND |
| Dissolved Sulphate (SO4) | mg/L | 2.0 | 150 | 130 | 130 | 130 | 130 | 150 |
| Turbidity | NTU | 0.10 | 0.30 | 0.45 | 0.11 | 0.40 | 0.28 | 0.10 |
| Conductivity | uS/cm | 1.0 | 1200 | 1200 | 1200 | 1200 | 1200 | 1100 |

## Appendix D - Contaminated Solids Summary

# Direct to Landfill Loads 2025

| | | | | |
|---|---|---|---|---|
| 2-Jan | Homless Ecampment | HRM Homeless Encampment | ReGroup | 890 |
| 6-Jan | Homless Ecampment | HRM Homeless Encampment | ReGroup | 650 |
| 13-Jan | Homless Ecampment | HRM Homeless Encampment | ReGroup | 1,610 |
| 20-Jan | Homless Ecampment | HRM Homeless Encampment | ReGroup | 1,450 |
| 27-Jan | Homless Ecampment | HRM Homeless Encampment | ReGroup | 1,100 |
| 3-Jan | Cannabis Waste | Atlantic Cann Med | ReGroup | 4,160 |
| 3-Jan | Cannabis Waste | Atlantic Cann Med | ReGroup | 400 |
| 10-Jan | Cannabis Waste | Atlantic Cann Med | ReGroup | 510 |
| 17-Jan | Cannabis Waste | Atlantic Cann Med | ReGroup | 550 |
| 27-Jan | Cannabis Waste | Atlantic Cann Med | ReGroup | 400 |
| 31-Jan | Cannabis Waste | Atlantic Cann Med | ReGroup | 290 |
| 31-Jan | Cannabis Waste | Atlantic Cann Med | ReGroup | 2,690 |
| 3-Jan | Septic Waste | WWT Plant - Upper Water St. | ReGroup | 4,480 |
| 10-Jan | Septic Waste | WWT Plant - Upper Water St. | ReGroup | 2,750 |
| 17-Jan | Septic Waste | WWT Plant - Upper Water St. | ReGroup | 3,070 |
| 24-Jan | Septic Waste | WWT Plant - Upper Water St. | ReGroup | 3,730 |
| 31-Jan | Septic Waste | WWT Plant - Upper Water St. | ReGroup | 2,530 |
| 3-Jan | Septic Waste | WWT Plant - Mawiomi | ReGroup | 2,490 |
| 10-Jan | Septic Waste | WWT Plant - Mawiomi | ReGroup | 1,960 |
| 17-Jan | Septic Waste | WWT Plant - Mawiomi | ReGroup | 1,660 |
| 24-Jan | Septic Waste | WWT Plant - Mawiomi | ReGroup | 2,060 |
| 31-Jan | Septic Waste | WWT Plant - Mawiomi | ReGroup | 1,680 |
| 3-Jan | Septic Waste | WWT Plant - Eastern Passage | ReGroup | 2,230 |
| 22-Jan | Septic Waste | WWT Plant - Eastern Passage | ReGroup | 1,760 |
| 3-Jan | Septic Waste | WWT Plant - Herring Cove | ReGroup | 2,040 |
| 7-Jan | Septic Waste | Burnside Corrections | ReGroup | 1,900 |
| 29-Jan | Septic Waste | Burnside Corrections | ReGroup | 1,810 |
| 10-Jan | Fire Extinguisher Powder | Don Brentons | Cash24 | 790 |
| 24-Jan | Fire Extinguisher Powder | Don Brentons | Cash 40 | 930 |
| 10-Jan | Recyclables/Needles | Dartmouth | ReGroup | 920 |
| 10-Jan | Shredded RCMP Uniforms | | ReGroup | 860 |
| 13-Jan | Resin Beads | Tufts Cove | GFL Env. | 6,180 |
| 16-Jan | Paper Mache | Maritime Paper | GFL Env. | 4,450 |
| 17-Jan | Pulp Bin | Oland's Brewery | J. Ross & Sons | 5,990 |
| 3-Feb | Homeless Encampment | HRM Homeless Encampment | ReGroup | 840 |
| 10-Feb | Homeless Encampment | HRM Homeless Encampment | ReGroup | 830 |
| 18-Feb | Homeless Encampment | HRM Homeless Encampment | ReGroup | 500 |
| 24-Feb | Homeless Encampment | HRM Homeless Encampment | ReGroup | 460 |
| 3-Feb | | Public Works - Spring Garden | GFL Env. | 2,080 |
| 4-Feb | Pulp Bin | Oland's Brewery | J. Ross & Sons | 4,170 |
| 7-Feb | Pulp Bin | Oland's Brewery | J. Ross & Sons | 11,500 |

| | | | | |
|---|---|---|---|---|
| 19-Feb | Pulp Bin | Oland's Brewery | J. Ross & Sons | 5,830 |
| 7-Feb | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,890 |
| 14-Feb | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,970 |
| 21-Feb | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,080 |
| 28-Feb | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,140 |
| 7-Feb | Cannabis Waste | Atlantic Cann Med | ReGroup | 450 |
| 7-Feb | Cannabis Waste | Atlantic Cann Med | ReGroup | 5,820 |
| 14-Feb | Cannabis Waste | Atlantic Cann Med | ReGroup | 490 |
| 20-Feb | Cannabis Waste | Atlantic Cann Med | ReGroup | 2,370 |
| 21-Feb | Cannabis Waste | Atlantic Cann Med | ReGroup | 480 |
| 28-Feb | Cannabis Waste | Atlantic Cann Med | ReGroup | 540 |
| 7-Feb | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,390 |
| 14-Feb | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 4,990 |
| 21-Feb | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,300 |
| 28-Feb | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 4,490 |
| 13-Feb | Septic Screenings | Dartmouth Corrections | GFL Env. | 1,830 |
| 18-Feb | Pulp Bin | Oland's Brewery | GFL Env. | 7,040 |
| 18-Feb | Septic Screenings | Halifax Water - Canal St. | ReGroup | 1,810 |
| 18-Feb | Carbon | Aerotech | GFL Env. | 5,350 |
| 13-Feb | Pulp | Maritime Paper | GFL Env. | 4,290 |
| 19-Feb | Septic Screenings | WWT Plant - Herring Cove | ReGroup | 1,030 |
| 19-Feb | Soaker Pi | Oland's Brewery | GFL Env. | 720 |
| 20-Feb | Septic Screenings | WWT Plant - Eastern Passage | ReGroup | 2,200 |
| 25-Feb | Sewage/Peat | Build NS | GFL Env. | 5,070 |
| 25-Feb | Sewage/Peat | Build NS | GFL Env. | 2,930 |
| 25-Feb | Sewage/Peat | Build NS | GFL Env. | 4,480 |
| 3-Mar | Septic Screenings | Burnside Corrections | GFL Env. | 3,080 |
| 3-Mar | Homeless Encampent | HRM Homeless Encampent | ReGroup | 880 |
| 10-Mar | Homeless Encampent | HRM Homeless Encampent | ReGroup | 1,410 |
| 12-Mar | Homeless Encampent | HRM Homeless Encampent | ReGroup | 3,030 |
| 17-Mar | Homeless Encampent | HRM Homeless Encampent | ReGroup | 1,380 |
| 24-Mar | Homeless Encampent | HRM Homeless Encampent | ReGroup | 1,650 |
| 31-Mar | Homeless Encampent | HRM Homeless Encampent | ReGroup | 1,370 |
| 3-Mar | Pulp Bin | Olands Brewery | J. Ross & Sons | 7,110 |
| 14-Mar | Pulp Bin | Olands Brewery | J. Ross & Sons | 6,240 |
| 28-Mar | Pulp Bin | Olands Brewery | J. Ross & Sons | 6,520 |
| 4-Mar | Tobacco | CFIA | Cash 9 | 1,370 |
| 5-Mar | Septic Screenings | WWT Plant - Eastern Passage | ReGroup | 1,300 |
| 26-Mar | Septic Screenings | WWT Plant - Eastern Passage | ReGroup | 1,740 |
| 7-Mar | Cannabis Waste | Atlantic Cann Med | ReGroup | 450 |
| 12-Mar | Cannabis Waste | Atlantic Cann Med | ReGroup | 2,970 |
| 18-Mar | Cannabis Waste | Atlantic Cann Med | ReGroup | 720 |
| 20-Mar | Cannabis Waste | Atlantic Cann Med | ReGroup | 4,480 |
| 21-Mar | Cannabis Waste | Atlantic Cann Med | ReGroup | 370 |

| | | | | |
|---|---|---|---|---|
| 28-Mar | Cannabis Waste | Atlantic Cann Med | ReGroup | 530 |
| 7-Mar | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 5,230 |
| 14-Mar | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,710 |
| 21-Mar | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 4,770 |
| 28-Mar | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 4,040 |
| 7-Mar | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,630 |
| 14-Mar | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,120 |
| 21-Mar | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,000 |
| 28-Mar | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,040 |
| 10-Mar | Fire Extinguisher Powder | Don Brenton's | Cash 25 | 980 |
| 12-Mar | Paper Mulch | Maritime Paper | GFL Env. | 2,970 |
| 13-Mar | Soil | MAXXAM | Leo J. Beazley | 1,870 |
| 13-Mar | Nets/Food | Military | ReGroup | 6,280 |
| 21-Mar | Ultra Electronics | Ultra Electronics | GFL Env. | 2,480 |
| 21-Mar | Muscles | NS Power - Tufts Cove | GFL Env. | 3,940 |
| 21-Mar | Sludge | NS Power - Tufts Cove | Miller Waste | 2,220 |
| 21-Mar | Sludge | NS Power - Tufts Cove | Miller Waste | 6,220 |
| 26-Mar | Homeless Encampent | HRM Homeless Encampent | Dave Veinottes | 1,360 |
| 26-Mar | Homeless Encampent | HRM Homeless Encampent | Dave Veinottes | 1,610 |
| 26-Mar | Homeless Encampent | HRM Homeless Encampent | Dave Veinottes | 2,800 |
| 27-Mar | Magnesium Oxide | GFL | GFL Env. | 3,830 |
| 2-Apr | Cannabis Waste | Atlantic Cann Med | ReGroup | 4,910 |
| 4-Apr | Cannabis Waste | Atlantic Cann Med | ReGroup | 400 |
| 11-Apr | Cannabis Waste | Atlantic Cann Med | ReGroup | 480 |
| 16-Apr | Cannabis Waste | Atlantic Cann Med | ReGroup | 2,740 |
| 17-Apr | Cannabis Waste | Atlantic Cann Med | ReGroup | 490 |
| 25-Apr | Cannabis Waste | Atlantic Cann Med | ReGroup | 400 |
| 4-Apr | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 4,740 |
| 11-Apr | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,790 |
| 17-Apr | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,990 |
| 25-Apr | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 2,910 |
| 4-Apr | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,150 |
| 11-Apr | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,190 |
| 17-Apr | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,910 |
| 25-Apr | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,590 |
| 7-Apr | Homeless Encampment | HRM Homeless Encampment | ReGroup | 1,640 |
| 10-Apr | Homeless Encampment | HRM Homeless Encampment | ReGroup | 1,570 |
| 17-Apr | Homeless Encampment | HRM Homeless Encampment | ReGroup | 2,060 |
| 22-Apr | Homeless Encampment | HRM Homeless Encampment | ReGroup | 470 |
| 28-Apr | Homeless Encampment | HRM Homeless Encampment | ReGroup | 860 |
| 9-Apr | Septic Screenings | WWT Plant - Herring Cove | ReGroup | 1,620 |
| 9-Apr | Septic Screenings | Burnside Corrections | GFL Env. | 2,930 |
| 28-Apr | Septic Screenings | Burnside Corrections | GFL Env. | 1,770 |
| 10-Apr | Rubber Tracks | Halifax C&D | ReGroup | 12,860 |

| | | | | |
|---|---|---|---|---|
| 14-Apr | Rubber Tracks | Halifax C&D | ReGroup | 12,480 |
| 11-Apr | Mussels | NS Power - Tufts Cove | GFL Env. | 2,050 |
| 14-Apr | Mussels | NS Power - Tufts Cove | GFL Env. | 530 |
| 11-Apr | Pulp Bin | Olands Brewery | J. Ross & Sons | 6,590 |
| 29-Apr | Pulp Bin | Olands Brewery | J. Ross & Sons | 6,960 |
| 14-Apr | Pulp | Maritime Paper | GFL Env. | 4,000 |
| 14-Apr | Fire Extinguisher Powder | Don Brentons | Cash 22 | 900 |
| 22-Apr | Septic Screenings | WWT Plant - Eastern Passage | ReGroup | 1,710 |
| 29-Apr | Mussles & Barnacles | Warf - HRR Limited | Leo J. Beazley | 950 |
| 29-Apr | Encampent Demo | Homeless Encampment - Spryfiel | ReGroup | 5,110 |
| 2-May | Cannabis Waste | Atlantic Cann Med | ReGroup | 640 |
| 9-May | Cannabis Waste | Atlantic Cann Med | ReGroup | 290 |
| 9-May | Cannabis Waste | Atlantic Cann Med | ReGroup | 4,120 |
| 21-May | Cannabis Waste | Atlantic Cann Med | ReGroup | 3,850 |
| 23-May | Cannabis Waste | Atlantic Cann Med | ReGroup | 310 |
| 30-May | Cannabis Waste | Atlantic Cann Med | ReGroup | 420 |
| 2-May | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,180 |
| 8-May | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 720 |
| 2-May | Soil Samples | Maxxam | Leo J. Beazley | 2,600 |
| 2-May | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 4,520 |
| 9-May | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 4,740 |
| 16-May | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,000 |
| 23-May | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 4,260 |
| 27-May | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 1,210 |
| 30-May | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 5,080 |
| 5-May | Homeless Encampment | HRM Homeless Encampment | ReGroup | 1,260 |
| 8-May | Homeless Encampment | HRM Homeless Encampment | ReGroup | 1,350 |
| 14-May | Homeless Encampment | HRM Homeless Encampment | ReGroup | 760 |
| 22-May | Homeless Encampment | HRM Homeless Encampment | ReGroup | 780 |
| 28-May | Homeless Encampment | HRM Homeless Encampment | ReGroup | 610 |
| 28-May | Homeless Encampment | HRM Homeless Encampment | ReGroup | 1,030 |
| 7-May | Tabacco | Provitial Tabacco Office | Cash 15 | 1,670 |
| 7-May | Excrement | Aerotech | ReGroup | 6,800 |
| 8-May | Tires Filled with Mudd & Mussels | Halifax Port Authority | ReGroup | 3,920 |
| 9-May | Septic Screenings | WWT Plant - Canal St. | ReGroup | 2,240 |
| 12-May | Multifloma Rose | Invasive Species | Cash 4 | 50 |
| 12-May | Japanse Knotwood | Invasive Species | Cash 16 | 2,130 |
| 12-May | Japanse Knotwood | Invasive Species | Cash 39 | 2,500 |
| 14-May | Septic Screenings | WWT Plant - Eastern Passage | ReGroup | 2,360 |
| 15-May | Septic Screenings | WWT Plant - Herring Cove | ReGroup | 1,050 |
| 16-May | Magnesium Oxide | GFL | Cash 23 | 580 |
| 21-May | Pulp Bin | Oland's Brewery | J. Ross & Sons | 7,800 |
| 23-May | Mussels | NS Power - Tufts Cove | GFL Env. | 2,650 |
| 29-May | Mussels | NS Power - Tufts Cove | GFL Env. | 790 |

| | | | | |
|---|---|---|---|---|
| 29-May | Mussels | NS Power - Tufts Cove | GFL Env. | 4,210 |
| 29-May | Mussels | NS Power - Tufts Cove | GFL Env. | 5,270 |
| 23-May | Carbon | NS Power - Tufts Cove | GFL Env. | 4,370 |
| 23-May | Magnesium Water | NS Power - Tufts Cove | GFL Env. | 6,560 |
| 26-May | Fire Extinsher Powder | Don Brentons | Cash27 | 1,050 |
| 30-May | Rubber Tracks | Halifax C&D | ReGroup | 9,810 |
| 29-May | Rubber Tracks | Halifax C&D | ReGroup | 9,610 |
| 30-May | Paper Mulch | Maritime Paper | GFL Env. | 3,820 |
| 29-May | Sludge | DND | GFL Env. | 1,920 |
| 3-Jun | Cannabis Waste | Atlantic Cann Med | ReGroup | 2,620 |
| 6-Jun | Cannabis Waste | Atlantic Cann Med | ReGroup | 610 |
| 11-Jun | Cannabis Waste | Atlantic Cann Med | ReGroup | 4,190 |
| 13-Jun | Cannabis Waste | Atlantic Cann Med | ReGroup | 720 |
| 20-Jun | Cannabis Waste | Atlantic Cann Med | ReGroup | 2,470 |
| 20-Jun | Cannabis Waste | Atlantic Cann Med | ReGroup | 400 |
| 27-Jun | Cannabis Waste | Atlantic Cann Med | ReGroup | 420 |
| 4-Jun | Septic Screenings | WWT Plant - Eastern Passage | ReGroup | 1,690 |
| 18-Jun | Septic Screenings | WWT Plant - Eastern Passage | ReGroup | 1,130 |
| 4-Jun | Homless Encampment | HRM Homeless Encampment | ReGroup | 850 |
| 6-Jun | Homless Encampment | HRM Homeless Encampment | ReGroup | 550 |
| 10-Jun | Homless Encampment | HRM Homeless Encampment | ReGroup | 1,510 |
| 16-Jun | Homless Encampment | HRM Homeless Encampment | ReGroup | 730 |
| 24-Jun | Homless Encampment | HRM Homeless Encampment | ReGroup | 1,130 |
| 6-Jun | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 5,180 |
| 13-Jun | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 5,570 |
| 20-Jun | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,560 |
| 27-Jun | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 4,110 |
| 6-Jun | Mussles | Mackinnon & Olding | GFL Env. | 650 |
| 6-Jun | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,530 |
| 13-Jun | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,080 |
| 20-Jun | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 780 |
| 27-Jun | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 690 |
| 10-Jun | Sand & Gravel | ATTA Elevators | GFL Env. | 3,120 |
| 11-Jun | Sand & Gravel | ATTA Elevators | GFL Env. | 2,620 |
| 13-Jun | Sand & Gravel | ATTA Elevators | GFL Env. | 1,830 |
| 13-Jun | Sand & Gravel | ATTA Elevators | GFL Env. | 3,100 |
| 17-Jun | Sand & Gravel | ATTA Elevators | GFL Env. | 3,980 |
| 10-Jun | Pulp Bin | Olands Brewery | J. Ross & Sons | 7,200 |
| 24-Jun | Pulp Bin | Olands Brewery | J. Ross & Sons | 6,630 |
| 11-Jun | Mussels | NS Power - Tufts Cove | GFL Env. | 6,190 |
| 12-Jun | Mussels | NS Power - Tufts Cove | GFL Env. | 3,700 |
| 12-Jun | Mussels | NS Power - Tufts Cove | GFL Env. | 4,370 |
| 16-Jun | Septic Screenings | Burnside Corrections | GFL Env. | 4,740 |
| 17-Jun | Rubber Tracks | Halifax C&D | ReGroup | 11,650 |

| | | | | |
|---|---|---|---|---|
| 18-Jun | Woodchips | DOT - Peggy's Cove | GFL Env. | 4,460 |
| 18-Jun | Woodchips | DOT - Peggy's Cove | GFL Env. | 4,230 |
| 19-Jun | Septic Screenings | WWT Plant - Herring Cove | ReGroup | 1,040 |
| 26-Jun | Carbon | Halifax Water | Cash 18 | 3,410 |
| 26-Jun | Carbon | Halifax Water | Cash 33 | 3,120 |
| 27-Jun | Septic Screenings | Burnside Corrections | GFL Env. | 2,080 |
| 2-Jul | Extinguisher Dust | Don Brentons | Don Brentons | 1,310 |
| 4-Jul | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 5,400 |
| 11-Jul | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 4,220 |
| 18-Jul | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 4,210 |
| 25-Jul | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 5,240 |
| 4-Jul | Cannabis Waste | Atlantic Cann Med | ReGroup | 430 |
| 11-Jul | Cannabis Waste | Atlantic Cann Med | ReGroup | 340 |
| 16-Jul | Cannabis Waste | Atlantic Cann Med | ReGroup | 3,570 |
| 21-Jul | Cannabis Waste | Atlantic Cann Med | ReGroup | 780 |
| 25-Jul | Cannabis Waste | Atlantic Cann Med | ReGroup | 570 |
| 28-Jul | Cannabis Waste | Atlantic Cann Med | ReGroup | 3,290 |
| 4-Jul | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 880 |
| 11-Jul | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,180 |
| 18-Jul | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,760 |
| 25-Jul | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,800 |
| 7-Jul | Paper Mache | Maritime Paper | GFL Environmental | 3,460 |
| 8-Jul | Pulp Bin | Oland's Brewery | J. Ross & Sons | 7,240 |
| 18-Jul | Pulp Bin | Oland's Brewery | J. Ross & Sons | 6,940 |
| 25-Jul | Pulp Bin | Oland's Brewery | J. Ross & Sons | 5,560 |
| 29-Jul | Pulp Bin | Oland's Brewery | J. Ross & Sons | 5,260 |
| 9-Jul | Homeless Encampment | HRM Homeless Encampment | ReGroup | 1,260 |
| 10-Jul | Septic Screenings | Halifax Water - Canal St. | ReGroup | 2,060 |
| 10-Jul | Hazards | Double Tree - Low Income Housin | ReGroup | 360 |
| 14-Jul | Septic Screenings | WWT Plant - Eastern Passage | ReGroup | 1,980 |
| 16-Jul | Mussels | DND - HMCS Windsor | GFL Environmental | 1,260 |
| 17-Jul | Bird Poop | DND | GFL Environmental | 1,440 |
| 22-Jul | Bird Poop | DND | GFL Environmental | 1,290 |
| 21-Jul | Septic Screenings | Burnside Corrections | GFL Environmental | 2,120 |
| 24-Jul | Chicken Bones & Gravel | DND | GFL Environmental | 2,070 |
| 25-Jul | Soaker Pit | Oland's Brewery | GFL Environmental | 6,020 |
| 25-Jul | Soaker Pit | Oland's Brewery | GFL Environmental | 5,220 |
| 29-Jul | Invasive Species | Victoria Park | ReGroup | 1,230 |
| 29-Jul | Elevator Sand | Dalhousie | GFL Environmental | 5,310 |
| 1-Aug | Cannabis Waste | Atlantic Cann Med | ReGroup | 330 |
| 8-Aug | Cannabis Waste | Atlantic Cann Med | ReGroup | 4,510 |
| 11-Aug | Cannabis Waste | Atlantic Cann Med | ReGroup | 640 |
| 11-Aug | Cannabis Waste | Atlantic Cann Med | ReGroup | 30 |
| 15-Aug | Cannabis Waste | Atlantic Cann Med | ReGroup | 440 |

| | | | | |
|---|---|---|---|---|
| 18-Aug | Cannabis Waste | Atlantic Cann Med | ReGroup | 2,280 |
| 22-Aug | Cannabis Waste | Atlantic Cann Med | ReGroup | 580 |
| 29-Aug | Cannabis Waste | Atlantic Cann Med | ReGroup | 500 |
| 1-Aug | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 2,990 |
| 8-Aug | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 2,950 |
| 15-Aug | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 2,880 |
| 19-Aug | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,080 |
| 22-Aug | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 1,360 |
| 26-Aug | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,510 |
| 29-Aug | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 940 |
| 1-Aug | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,090 |
| 8-Aug | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 470 |
| 15-Aug | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,000 |
| 22-Aug | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,650 |
| 29-Aug | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,640 |
| 1-Aug | TK Elevator Sand | D&D | GFL Environmental | 2,630 |
| 26-Aug | TK Elevator Sand | D&D | GFL Environmental | 910 |
| 7-Aug | Gravel & Waste | | GFL Environmental | 3,130 |
| 7-Aug | Encampment | Doubletree Hotel Encampment | ReGroup | 1,080 |
| 8-Aug | Septic Screenings | Burnside Corrections | GFL Environmental | 2,630 |
| 27-Aug | Septic Screenings | Burnside Corrections | GFL Environmental | 2,300 |
| 8-Aug | Sand | Elevator Shaft | GFL Environmental | 1,210 |
| 13-Aug | Septic Screenings | WWT Plant - Eastern Passage | ReGroup | 1,780 |
| 18-Aug | Paper Mache | Maritime Paper | GFL Environmental | 3,270 |
| 18-Aug | Fire Extinguisher Powder | Don Brenton's | Cash22 | 1,840 |
| 19-Aug | Pulp Bin | Olands Brewery | J. Ross & Sons | 6,070 |
| 22-Aug | Septic Screenings | WWT Plant - Herring Cove | ReGroup | 930 |
| 27-Aug | Clarifier | Halifax Shipyards | GFL Environmental | 11,590 |
| 27-Aug | Clarifier | Halifax Shipyards | GFL Environmental | 7,470 |
| 28-Aug | Clarifier | Halifax Shipyards | GFL Environmental | 7,290 |
| 28-Aug | Clarifier | Halifax Shipyards | GFL Environmental | 3,630 |
| 3-Sep | Sandblast Gritt | All Steel Coatings | Cash 23 | 12,960 |
| 22-Sep | Sandblast Gritt | All Steel Coatings | Cash 14 | 11,590 |
| 22-Sep | Sandblast Gritt | All Steel Coatings | Cash 27 | 12,300 |
| 25-Sep | Sandblast Gritt | All Steel Coatings | Cash 12 | 10,090 |
| 25-Sep | Sandblast Gritt | All Steel Coatings | Cash 50 | 2,430 |
| 25-Sep | Sandblast Gritt | All Steel Coatings | Cash 35 | 15,840 |
| 26-Sep | Sandblast Gritt | All Steel Coatings | Cash 34 | 3,570 |
| 4-Sep | Mussels | NS Power - Tufts Cove | GFL Environmental | 2,810 |
| 5-Sep | Mussels | NS Power - Tufts Cove | GFL Environmental | 2,300 |
| 8-Sep | Mussels | NS Power - Tufts Cove | GFL Environmental | 3,630 |
| 8-Sep | Mussels | NS Power - Tufts Cove | GFL Environmental | 3,440 |
| 11-Sep | Mussels | NS Power - Tufts Cove | GFL Environmental | 4,400 |
| 12-Sep | Mussels | NS Power - Tufts Cove | GFL Environmental | 2,410 |

| | | | | |
|---|---|---|---|---|
| 12-Sep | Mussels | NS Power - Tufts Cove | GFL Environmental | 5,790 |
| 5-Sep | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 2,880 |
| 12-Sep | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 4,040 |
| 19-Sep | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 2,590 |
| 26-Sep | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,850 |
| 5-Sep | Pulp Bin | Olands | J. Ross & Sons | 6,430 |
| 19-Sep | Pulp Bin | Olands | J. Ross & Sons | 6,680 |
| 5-Sep | Cannabis Waste | Atlantic Cann Med | ReGroup | 660 |
| 12-Sep | Cannabis Waste | Atlantic Cann Med | ReGroup | 680 |
| 15-Sep | Cannabis Waste | Atlantic Cann Med | ReGroup | 3,630 |
| 19-Sep | Cannabis Waste | Atlantic Cann Med | ReGroup | 550 |
| 26-Sep | Cannabis Waste | Atlantic Cann Med | ReGroup | 470 |
| 5-Sep | Paper Mache | Maritime Paper | GFL Environmental | 4,750 |
| 5-Sep | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 790 |
| 12-Sep | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,120 |
| 19-Sep | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 780 |
| 26-Sep | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,530 |
| 8-Sep | Japanese Knotweed | Cash 4 | Cash 4 | 40 |
| 24-Sep | Japanese Knotweed | Cash 5 | Cash 5 | 410 |
| 24-Sep | Japanese Knotweed | Cash 15 | Cash 15 | 210 |
| 24-Sep | Japanese Knotweed | Cash 27 | Cash 27 | 270 |
| 24-Sep | Japanese Knotweed | Cash 30 | Cash 30 | 750 |
| 25-Sep | Japanese Knotweed | Cash 5 | Cash 5 | 410 |
| 25-Sep | Japanese Knotweed | Cash 13 | Cash 13 | 2,110 |
| 9-Sep | Septic Screenings | WWT Plant - Eastern Passage | ReGroup | 2,460 |
| 11-Sep | Septic Screenings | WWT Plant - Canal St. | ReGroup | 1,290 |
| 15-Sep | Homeless Encampment | Homeless Encampment | Maritime Demo | 300 |
| 17-Sep | Invasive Species | Yellow Floating Heart | Cash 47 | 40 |
| 22-Sep | Invasive Species | Yellow Floating Heart | Cash 30 | 370 |
| 17-Sep | Homeless Encampment | Double Tree Encampment | ReGroup | 470 |
| 24-Sep | Homeless Encampment | Double Tree Encampment | ReGroup | 700 |
| 18-Sep | Sand | DND | GFL Environmental | 1,650 |
| 22-Sep | Sand | DND | GFL Environmental | 6,690 |
| 18-Sep | Bird Poop | Shipyards | GFL Environmental | 2,050 |
| 18-Sep | Septic Screenings | Burnside Corrections | GFL Environmental | 2,280 |
| 19-Sep | Resin Beads | NS Power - Tufts Cove | GFL Environmental | 4,060 |
| 19-Sep | Resin Beads | NS Power - Tufts Cove | GFL Environmental | 4,270 |
| 24-Sep | Homeless Encampment | Homeless Encampment | David Veinottes | 640 |
| 24-Sep | Homeless Encampment | Homeless Encampment | David Veinottes | 320 |
| 2-Oct | Crushed Electronics | Ultra Electronics | GFL Environmental | 3,710 |
| 2-Oct | Mussels | NS Power - Tufts Cove | GFL Environmental | 4,870 |
| 15-Oct | Mussels | NS Power - Tufts Cove | GFL Environmental | 2,340 |
| 15-Oct | Mussels | NS Power - Tufts Cove | GFL Environmental | 2,410 |
| 16-Oct | Mussels | NS Power - Tufts Cove | GFL Environmental | 2,350 |

| | | | | |
|---|---|---|---|---|
| 20-Oct | Mussels | NS Power - Tufts Cove | GFL Environmental | 4,040 |
| 20-Oct | Mussels | NS Power - Tufts Cove | GFL Environmental | 5,070 |
| 21-Oct | Mussels | NS Power - Tufts Cove | GFL Environmental | 4,350 |
| 21-Oct | Mussels | NS Power - Tufts Cove | GFL Environmental | 2,040 |
| 28-Oct | Mussels | NS Power - Tufts Cove | GFL Environmental | 430 |
| 2-Oct | Sandblast Grit | All Steel | Cash 50 | 10,690 |
| 7-Oct | Sandblast Grit | All Steel | Cash 3 | 5,560 |
| 8-Oct | Sandblast Grit | All Steel | Cash 8 | 6,700 |
| 3-Oct | Pulp Bin | Olands Brewery | J. Ross & Sons | 6,830 |
| 3-Oct | Cannabis Waste | Atlantic Cann Med | ReGroup | 600 |
| 10-Oct | Cannabis Waste | Atlantic Cann Med | ReGroup | 510 |
| 16-Oct | Cannabis Waste | Atlantic Cann Med | ReGroup | 480 |
| 24-Oct | Cannabis Waste | Atlantic Cann Med | ReGroup | 630 |
| 31-Oct | Cannabis Waste | Atlantic Cann Med | ReGroup | 4,870 |
| 31-Oct | Cannabis Waste | Atlantic Cann Med | ReGroup | 570 |
| 3-Oct | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,100 |
| 10-Oct | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,140 |
| 17-Oct | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 2,510 |
| 21-Oct | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 4,080 |
| 27-Oct | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 2,020 |
| 31-Oct | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 2,380 |
| 3-Oct | Bird Poop | DND | GFL Environmental | 380 |
| 3-Oct | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 800 |
| 10-Oct | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,160 |
| 17-Oct | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,190 |
| 24-Oct | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 3,520 |
| 24-Oct | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,580 |
| 31-Oct | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,480 |
| 10-Oct | Excavator Trax | C&D - Goodwood | ReGroup | 10,690 |
| 27-Oct | Excavator Trax | C&D - Goodwood | ReGroup | 10,860 |
| 14-Oct | Pulp Bin | Maritime Paper | GFL Environmental | 2,310 |
| 15-Oct | Magnesium | NS Power - Tufts Cove | GFL Environmental | 7,530 |
| 17-Oct | Magnesium | NS Power - Tufts Cove | GFL Environmental | 200 |
| 21-Oct | Magnesium | NS Power - Tufts Cove | GFL Environmental | 9,340 |
| 15-Oct | Septic Screenings | WWT Plant - Eastern Passage | ReGroup | 1,770 |
| 16-Oct | Fire Extinguisher Dust | Don Brentons | Cash 46 | 1,010 |
| 20-Oct | Septic Screenings | Burnside Corrections | GFL Environmental | 3,490 |
| 20-Oct | Septic Screenings | WWT Plant - Herring Cove | ReGroup | 1,000 |
| 23-Oct | Carbon | Olands Brewery | GFL Environmental | 6,300 |
| 23-Oct | Carbon | Olands Brewery | GFL Environmental | 7,460 |
| 24-Oct | Pulp Bin | Olands Brewery | J. Ross & Sons | 5,670 |
| 24-Oct | Sludge | NS Power - Tufts Cove | Miller Waste | 8,410 |
| 24-Oct | Sludge | NS Power - Tufts Cove | Miller Waste | 3,600 |
| 3-Nov | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,030 |

| | | | | |
|---|---|---|---|---|
| 7-Nov | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 1,970 |
| 10-Nov | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 2,230 |
| 14-Nov | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 1,090 |
| 21-Nov | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,160 |
| 28-Nov | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 4,800 |
| 7-Nov | Rubber Treads | | Cash 39 | 6,550 |
| 7-Nov | Needles | MRF - Contaminated Load | ReGroup | 2,910 |
| 7-Nov | Cannabis Waste | Atlantic Cann Med | ReGroup | 470 |
| 13-Nov | Cannabis Waste | Atlantic Cann Med | ReGroup | 3,140 |
| 14-Nov | Cannabis Waste | Atlantic Cann Med | ReGroup | 390 |
| 20-Nov | Cannabis Waste | Atlantic Cann Med | ReGroup | 4,640 |
| 21-Nov | Cannabis Waste | Atlantic Cann Med | ReGroup | 430 |
| 28-Nov | Cannabis Waste | Atlantic Cann Med | ReGroup | 530 |
| 7-Nov | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,760 |
| 14-Nov | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,420 |
| 26-Nov | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,570 |
| 28-Nov | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,240 |
| 10-Nov | Invasive Species - Multiflora Ros | Cash 12 | Cash 12 | 80 |
| 13-Nov | Soil Bin | Maxxam | Leo J. Beazley | 2,320 |
| 13-Nov | Septic Screenings | WWT Plant - Eastern Passage | ReGroup | 2,760 |
| 13-Nov | Wood Chips/Bird Poop | DND | GFL Environmental | 510 |
| 13-Nov | Sludge | City CTR Prop MGMT | GFL Environmental | 4,740 |
| 14-Nov | Pulp Bin | Olands Brewery | J. Ross & Sons | 5,230 |
| 28-Nov | Pulp Bin | Olands Brewery | J. Ross & Sons | 4,530 |
| 17-Nov | Septic Screenings | Burnside Corrections | GFL Environmental | 1,810 |
| 17-Nov | Homeless Encampment | Homeless Encampment | Deep Down | 290 |
| 17-Nov | Mussels | NS Power - Tufts Cove | GFL Environmental | 1,880 |
| 18-Nov | Septic Screenings | WWT Plant - Canal St | ReGroup | 2,120 |
| 19-Nov | Mussels | CMF | Cash 31 | 170 |
| 19-Nov | Septic Gravel | Fire School | GFL Environmental | 900 |
| 20-Nov | Septic Gravel | Fire School | GFL Environmental | 470 |
| 20-Nov | Septic Screenings | WWT Plant - Herring Cove | ReGroup | 1,140 |
| 24-Nov | Pepper Spray | | Cash 40 | 80 |
| 25-Nov | Fire Extinguisher Dust | Don Brentons | Don Brentons | 980 |
| 28-Nov | Fire Extinguisher Dust | Don Brentons | Don Brentons | 440 |
| 28-Nov | Fire Extinguisher Dust | Don Brentons | Don Brentons | 500 |
| 25-Nov | Dirt (International Waste) | Total Transport Rigging | Cash 9 | 60 |
| 26-Nov | Pulp | Maritime Paper | GFL Environmental | 3,590 |
| 1-Dec | Stirofoam | Porta Potty | GFL Environmental | 270 |
| 2-Dec | Cannabis Waste | Atlantic Cann Med | ReGroup | 2,320 |
| 5-Dec | Cannabis Waste | Atlantic Cann Med | ReGroup | 810 |
| 12-Dec | Cannabis Waste | Atlantic Cann Med | ReGroup | 510 |
| 12-Dec | Cannabis Waste | Atlantic Cann Med | ReGroup | 3,600 |
| 19-Dec | Cannabis Waste | Atlantic Cann Med | ReGroup | 630 |

| | | | | |
|---|---|---|---|---|
| 3-Dec | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,380 |
| 9-Dec | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,570 |
| 17-Dec | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 2,210 |
| 23-Dec | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 1,820 |
| 30-Dec | Septic Screenings | WWT Plant - Upper Water St. | ReGroup | 3,670 |
| 5-Dec | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 2,190 |
| 12-Dec | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,430 |
| 18-Dec | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,000 |
| 24-Dec | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,300 |
| 31-Dec | Septic Screenings | WWT Plant - Mawiomi | ReGroup | 1,970 |
| 10-Dec | Encampment | Armdale Rotary Encampment | David Veinottes | 1,270 |
| 10-Dec | Encampment | Armdale Rotary Encampment | David Veinottes | 2,320 |
| 10-Dec | Encampment | Armdale Rotary Encampment | David Veinottes | 1,170 |
| 11-Dec | Encampment | Armdale Rotary Encampment | David Veinottes | 3,240 |
| 11-Dec | Rubber in Barrels | Doron | Cash 49 | 1,580 |
| 12-Dec | Starch | Maritime Paper | GFL Environmental | 2,490 |
| 15-Dec | Septic Screenings | WWT Plant - Eastern Passage | ReGroup | 2,250 |
| 16-Dec | Mussels | NS Power - Tufts Cove | GFL Environmental | 7,150 |
| 27-Dec | Mussels | NS Power - Tufts Cove | GFL Environmental | 2,770 |
| 17-Dec | Sludge | 11 Brown Ave. | GFL Environmental | 8,830 |
| 17-Dec | Sludge | 11 Brown Ave. | GFL Environmental | 640 |
| 18-Dec | Septic Screenings | Burnside Corrections | GFL Environmental | 2,170 |
| 18-Dec | Encampment | Charles St. | Cash 10 | 180 |
| 23-Dec | Encampment | Larry Uteck | David Veinottes | 500 |
| 23-Dec | Excavator Trax | Halifax C&D | ReGroup | 4,440 |
| 19-Dec | Pulp Bin | Olands Brewery | J. Ross & Sons | 7,220 |
| 27-Dec | Needles | HRM Encampment | ReGroup | 1,320 |

# Appendix E- Alternate Cover Analysis Summary

Mirror Nova Scotia Ltd

| ELEMENTS BY ICP/MS (SOLID) | | | 2-Jan | 16-Jan | 30-Jan | 13-Feb |
|---|---|---|---|---|---|---|
| Bureau Veritas ID | | | AMYA35 | ANGV43 | ANRK02 | AOBI59 |
| Sampling Date | | | 2025/01/02 | 2025/01/16 | 2025/01/30 18:30 | 2025/02/13 |
| COC Number | | | N/A | N/A | N/A | N/A |
| | **UNITS** | **RDL** | **AC1-020125-01** | **AC1-160125-01** | **AC1-300125-01** | **AC1-130225-01** |
| **Metals** | | | | | | |
| Leachable Aluminum (Al) | ug/L | 100 | 710 | 1400 | 990 | 1600 |
| Leachable Antimony (Sb) | ug/L | 20 | ND | ND | ND | ND |
| Leachable Arsenic (As) | ug/L | 20 | ND | ND | 54 | ND |
| Leachable Barium (Ba) | ug/L | 50 | 140 | 190 | 130 | 260 |
| Leachable Beryllium (Be) | ug/L | 20 | ND | ND | ND | ND |
| Leachable Boron (B) | ug/L | 500 | ND | 4100 | 900 | 2000 |
| Leachable Cadmium (Cd) | ug/L | 3.0 | 29 | 4.4 | ND | ND |
| Leachable Calcium (Ca) | ug/L | 1000 | 1100000 | 1100000 | 870000 | 980000 |
| Leachable Chromium (Cr) | ug/L | 20 | ND | ND | 48 | ND |
| Leachable Cobalt (Co) | ug/L | 10 | ND | ND | ND | 12 |
| Leachable Copper (Cu) | ug/L | 20 | 340 | ND | 160 | 38 |
| Leachable Iron (Fe) | ug/L | 500 | 910 | 680 | 790 | 1000 |
| Leachable Lead (Pb) | ug/L | 5.0 | 530 | 40 | 87 | 92 |
| Leachable Lithium (Li) | ug/L | 20 | ND | ND | ND | ND |
| Leachable Magnesium (Mg) | ug/L | 1000 | 9900 | 20000 | 13000 | 15000 |
| Leachable Manganese (Mn) | ug/L | 20 | 930 | 2100 | 2100 | 2200 |
| Leachable Molybdenum (Mo) | ug/L | 20 | ND | ND | ND | ND |
| Leachable Nickel (Ni) | ug/L | 20 | 24 | 26 | ND | 22 |
| Leachable Potassium (K) | ug/L | 1000 | 16000 | 31000 | 18000 | 28000 (1) |
| Leachable Selenium (Se) | ug/L | 10 | ND | ND | ND | ND |
| Leachable Silver (Ag) | ug/L | 5.0 | ND | ND | ND | ND |
| Leachable Strontium (Sr) | ug/L | 50 | 1900 | 1500 | 1900 | 1400 |
| Leachable Thallium (Tl) | ug/L | 1.0 | ND | ND | ND | ND |
| Leachable Tin (Sn) | ug/L | 20 | ND | ND | ND | ND |
| Leachable Uranium (U) | ug/L | 1.0 | ND | ND | ND | ND |
| Leachable Vanadium (V) | ug/L | 20 | ND | ND | ND | ND |
| Leachable Zinc (Zn) | ug/L | 50 | 75000 | 5400 | 1600 | 1600 |
| **Inorganics** | | | | | | |
| Sample Weight (as received) | g | N/A | 100 | 100 | 100 | 100 |
| Sulphate (SO4) | mg/kg | 2000 | 7300 | 7900 | 8500 | 9200 |
| Initial pH | N/A | | 5.0 | 5.0 | 5.0 | 5.0 |
| Final pH | N/A | | 5.4 | 5.3 | 5.1 | 5.1 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

**Results relate only to the items tested.**

| ELEMENTS BY ICP/MS (SOLID) | | 27-Feb | 13-Mar | 27-Mar | 10-Apr |
|---|---|---|---|---|---|
| Bureau Veritas ID | | AOLU04 | AOXA11 | APII28 | APTS96 |
| Sampling Date | | 2025/02/27 | 2025/03/13 | 2025/03/27 15:30 | 2025/04/10 |
| COC Number | | N/A | N/A | N/A | N/A |
| | **UNITS** | **ACI-270225-01** | **AC1-130325-04** | **AC1- 270325-04** | **AC1-100425-01** |
| **Metals** | | | | | |
| Leachable Aluminum (Al) | ug/L | 940 | 1400 | 1100 | 880 |
| Leachable Antimony (Sb) | ug/L | ND | ND | ND | ND |
| Leachable Arsenic (As) | ug/L | ND | 77 | ND | ND |
| Leachable Barium (Ba) | ug/L | 200 | 130 | 150 | 110 |
| Leachable Beryllium (Be) | ug/L | ND | ND | ND | ND |
| Leachable Boron (B) | ug/L | 860 | 5300 | 1600 | 720 |
| Leachable Cadmium (Cd) | ug/L | 3.1 | 4.3 | 3.9 | 3.3 |
| Leachable Calcium (Ca) | ug/L | 870000 | 1100000 | 1100000 | 920000 |
| Leachable Chromium (Cr) | ug/L | ND | 41 | ND | ND |
| Leachable Cobalt (Co) | ug/L | ND | ND | 12 | ND |
| Leachable Copper (Cu) | ug/L | 260 | 210 | 37 | 37 |
| Leachable Iron (Fe) | ug/L | 580 | 1000 | 1600 | 2600 |
| Leachable Lead (Pb) | ug/L | 350 | 480 | 160 | 160 |
| Leachable Lithium (Li) | ug/L | ND | ND | ND | ND |
| Leachable Magnesium (Mg) | ug/L | 10000 | 13000 | 10000 | 15000 |
| Leachable Manganese (Mn) | ug/L | 2200 | 1600 | 1400 | 970 |
| Leachable Molybdenum (Mo) | ug/L | ND | ND | ND | ND |
| Leachable Nickel (Ni) | ug/L | ND | ND | ND | ND |
| Leachable Potassium (K) | ug/L | 21000 | 19000 | 23000 (1) | 14000 |
| Leachable Selenium (Se) | ug/L | ND | ND | ND | ND |
| Leachable Silver (Ag) | ug/L | ND | ND | ND | ND |
| Leachable Strontium (Sr) | ug/L | 1700 | 1900 | 1800 | 1900 |
| Leachable Thallium (Tl) | ug/L | ND | ND | ND | ND |
| Leachable Tin (Sn) | ug/L | ND | ND | ND | ND |
| Leachable Uranium (U) | ug/L | ND | 1.3 | ND | 1.5 |
| Leachable Vanadium (V) | ug/L | ND | ND | ND | ND |
| Leachable Zinc (Zn) | ug/L | 1100 | 2400 | 1800 | 1400 |
| **Inorganics** | | | | | |
| Sample Weight (as received) | g | 100 | 100 | 100 | 100 |
| Sulphate (SO4) | mg/kg | 1600 | 7800 | 1500 | 7900 |
| Initial pH | N/A | 4.9 | 5.0 | 5.0 | 5.0 |
| Final pH | N/A | 5.2 | 5.3 | 5.3 | 5.1 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentratior

**Results relate only to the items teste**

| ELEMENTS BY ICP/MS (SOLID) | | 1-May | 22-May | 5-Jun | 19-Jun |
|---|---|---|---|---|---|
| Bureau Veritas ID | | AQMH45 | ARDT61 | ARQE03 | ASDX73 |
| Sampling Date | | 2025/05/01 | 2025/05/22 07:45 | 2025/06/05 08:30 | 2025/06/19 |
| COC Number | | N/A | N/A | N/A | N/A |
| | **UNITS** | **ACI-010525-01** | **AC1-220525-04** | **ACI-050625-02** | **AC-190625-03** |
| **Metals** | | | | | |
| Leachable Aluminum (Al) | ug/L | 870 | 830 | 830 | 1100 |
| Leachable Antimony (Sb) | ug/L | ND | ND | ND | ND |
| Leachable Arsenic (As) | ug/L | 30 | ND | 22 | 43 |
| Leachable Barium (Ba) | ug/L | 140 | 160 | 130 | 160 |
| Leachable Beryllium (Be) | ug/L | ND | ND | ND | ND |
| Leachable Boron (B) | ug/L | 620 | 740 | 660 | 670 |
| Leachable Cadmium (Cd) | ug/L | ND | 3.3 | 6.3 | ND |
| Leachable Calcium (Ca) | ug/L | 940000 | 1000000 | 1100000 | 900000 |
| Leachable Chromium (Cr) | ug/L | 30 | 28 | ND | 24 |
| Leachable Cobalt (Co) | ug/L | ND | ND | ND | ND |
| Leachable Copper (Cu) | ug/L | 230 | 510 | 130 | 1400 |
| Leachable Iron (Fe) | ug/L | 590 | 790 | 1000 | 730 |
| Leachable Lead (Pb) | ug/L | 1200 | 340 | 93 | 110 |
| Leachable Lithium (Li) | ug/L | ND | ND | ND | ND |
| Leachable Magnesium (Mg) | ug/L | 11000 | 12000 | 9700 | 13000 |
| Leachable Manganese (Mn) | ug/L | 1400 | 1300 | 1200 | 1200 |
| Leachable Molybdenum (Mo) | ug/L | ND | ND | ND | ND |
| Leachable Nickel (Ni) | ug/L | ND | ND | 24 | ND |
| Leachable Potassium (K) | ug/L | 21000 | 15000 | 16000 | 16000 |
| Leachable Selenium (Se) | ug/L | ND | ND | ND | ND |
| Leachable Silver (Ag) | ug/L | ND | ND | ND | ND |
| Leachable Strontium (Sr) | ug/L | 1600 | 1600 | 1500 | 1300 |
| Leachable Thallium (Tl) | ug/L | ND | ND | ND | ND |
| Leachable Tin (Sn) | ug/L | ND | ND | ND | ND |
| Leachable Uranium (U) | ug/L | ND | ND | ND | ND |
| Leachable Vanadium (V) | ug/L | ND | ND | ND | ND |
| Leachable Zinc (Zn) | ug/L | 1000 | 2600 | 4100 | 3200 |
| **Inorganics** | | | | | |
| Sample Weight (as received) | g | 100 | 100 | 100 | 100 |
| Sulphate (SO4) | mg/kg | 8600 | 8100 | 7700 | 7200 |
| Initial pH | N/A | 5.0 | 5.0 | 5.0 | 5.0 |
| Final pH | N/A | 5.1 | 5.2 | 5.5 | 5.2 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentratior

**Results relate only to the items teste**

| ELEMENTS BY ICP/MS (SOLID) | | 3-Jul | 17-Jul | 31-Jul | 14-Aug |
|---|---|---|---|---|---|
| Bureau Veritas ID | | ASQA02 | ATCO39 | ATPZ13 | AUBS90 |
| Sampling Date | | 2025/07/03 | 2025/07/17 | 2025/07/31 09:30 | 2025/08/14 |
| COC Number | | N/A | N/A | N/A | N/A |
| | **UNITS** | **AC1-030725-03** | **AC1-170725-02** | **AC1-310725-01** | **AC1-140825-01** |
| **Metals** | | | | | |
| Leachable Aluminum (Al) | ug/L | 1200 | 830 | 700 | 1000 |
| Leachable Antimony (Sb) | ug/L | ND | ND | ND | ND |
| Leachable Arsenic (As) | ug/L | ND | ND | 35 | ND |
| Leachable Barium (Ba) | ug/L | 170 | 120 | 200 | 150 |
| Leachable Beryllium (Be) | ug/L | ND | ND | ND | ND |
| Leachable Boron (B) | ug/L | 1300 | 1800 | 1300 | 1700 |
| Leachable Cadmium (Cd) | ug/L | 3.6 | 230 | 3.9 | ND |
| Leachable Calcium (Ca) | ug/L | 840000 | 960000 | 1200000 | 1000000 |
| Leachable Chromium (Cr) | ug/L | ND | ND | 25 | ND |
| Leachable Cobalt (Co) | ug/L | ND | 11 | 13 | ND |
| Leachable Copper (Cu) | ug/L | 360 | 130 | 160 | 820 |
| Leachable Iron (Fe) | ug/L | 570 | 1300 | 770 | 870 |
| Leachable Lead (Pb) | ug/L | 500 | 210 | 430 | 130 |
| Leachable Lithium (Li) | ug/L | ND | ND | ND | ND |
| Leachable Magnesium (Mg) | ug/L | 13000 | 18000 | 21000 | 13000 |
| Leachable Manganese (Mn) | ug/L | 1400 | 1300 | 1800 | 1500 |
| Leachable Molybdenum (Mo) | ug/L | ND | ND | ND | ND |
| Leachable Nickel (Ni) | ug/L | ND | ND | ND | ND |
| Leachable Potassium (K) | ug/L | 21000 | 16000 | 19000 | 18000 |
| Leachable Selenium (Se) | ug/L | ND | ND | ND | ND |
| Leachable Silver (Ag) | ug/L | ND | ND | ND | ND |
| Leachable Strontium (Sr) | ug/L | 1200 | 1500 | 1900 | 1600 |
| Leachable Thallium (Tl) | ug/L | ND | ND | ND | ND |
| Leachable Tin (Sn) | ug/L | ND | ND | ND | ND |
| Leachable Uranium (U) | ug/L | ND | ND | ND | ND |
| Leachable Vanadium (V) | ug/L | ND | ND | ND | ND |
| Leachable Zinc (Zn) | ug/L | 1700 | 1700 | 2500 | 2400 |
| **Inorganics** | | | ATCO39 | | |
| Sample Weight (as received) | g | 100 | 2025/07/17 | 100 | 100 |
| Sulphate (SO4) | mg/kg | 8200 | N/A | 7700 | 7800 |
| Initial pH | N/A | 5.0 | **AC1-170725-02** | 5.0 | 5.0 |
| Final pH | N/A | 5.1 | | 5.5 | 5.2 |
| | | | 100 | | |
| | | | 8600 | | |
| | | | 5.0 | | |
| | | | 5.2 | | |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentratior

**Results relate only to the items teste**

| ELEMENTS BY ICP/MS (SOLID) | | 28-Sep | 11-Sep | 25-Sep | 9-Oct |
|---|---|---|---|---|---|
| Bureau Veritas ID | | AUPO57 | AVCB92 | AVPD20 | AWBQ31 |
| Sampling Date | | 2025/08/28 | 2025/09/11 | 2025/09/25 | 2025/10/09 |
| COC Number | | N/A | N/A | N/A | N/A |
| | **UNITS** | **AC1 - 280826 - 02** | **AC1-110925-01** | **AC1-250925-01** | **AC1-091025-01** |
| **Metals** | | | | | |
| Leachable Aluminum (Al) | ug/L | 470 | 390 | 1300 | 1400 |
| Leachable Antimony (Sb) | ug/L | ND | ND | ND | ND |
| Leachable Arsenic (As) | ug/L | 38 | ND | 46 | ND |
| Leachable Barium (Ba) | ug/L | 130 | 100 | 120 | 140 |
| Leachable Beryllium (Be) | ug/L | ND | ND | ND | ND |
| Leachable Boron (B) | ug/L | 1700 | 1600 | 2600 | 1700 |
| Leachable Cadmium (Cd) | ug/L | ND | ND | ND | ND |
| Leachable Calcium (Ca) | ug/L | 620000 | 1100000 | 610000 | 1000000 |
| Leachable Chromium (Cr) | ug/L | ND | ND | 23 | ND |
| Leachable Cobalt (Co) | ug/L | ND | 14 | 16 | ND |
| Leachable Copper (Cu) | ug/L | 130 | 32 | 390 | 190 |
| Leachable Iron (Fe) | ug/L | 1200 | 740 | 600 | 960 |
| Leachable Lead (Pb) | ug/L | 50 | 420 | 240 | 290 |
| Leachable Lithium (Li) | ug/L | ND | ND | ND | ND |
| Leachable Magnesium (Mg) | ug/L | 8800 | 13000 | 12000 | 13000 |
| Leachable Manganese (Mn) | ug/L | 1500 | 890 | 1700 | 1600 |
| Leachable Molybdenum (Mo) | ug/L | ND | ND | ND | ND |
| Leachable Nickel (Ni) | ug/L | ND | ND | ND | ND |
| Leachable Potassium (K) | ug/L | 13000 | 10000 | 31000 | 19000 |
| Leachable Selenium (Se) | ug/L | ND | ND | ND | ND |
| Leachable Silver (Ag) | ug/L | ND | ND | ND | ND |
| Leachable Strontium (Sr) | ug/L | 1100 | 2000 | 1200 | 1700 |
| Leachable Thallium (Tl) | ug/L | ND | ND | ND | ND |
| Leachable Tin (Sn) | ug/L | ND | ND | ND | ND |
| Leachable Uranium (U) | ug/L | ND | ND | ND | ND |
| Leachable Vanadium (V) | ug/L | ND | ND | ND | ND |
| Leachable Zinc (Zn) | ug/L | 2400 | 2200 | 2300 | 1800 |
| **Inorganics** | | | | | |
| Sample Weight (as received) | g | 100 | 100 | 100 | 100 |
| Sulphate (SO4) | mg/kg | 8200 | 8600 | 8000 | 7800 |
| Initial pH | N/A | 5.0 | 5.0 | 4.9 | 5.0 |
| Final pH | N/A | 5.2 | 5.3 | 5.1 | 5.3 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentratio

**Results relate only to the items teste**

| ELEMENTS BY ICP/MS (SOLID) | | 23-Oct | 6-Nov | 28-Nov | 11-Dec |
|---|---|---|---|---|---|
| Bureau Veritas ID | | AWNU69 | AXBQ02 | AXUU50 | AYHN08 |
| Sampling Date | | 2025/10/23 | 2025/11/06 07:40 | 2025/11/28 | 2025/12/11 |
| COC Number | | N/A | N/A | N/A | N/A |
| | **UNITS** | **AC-231025-01** | **AC-061125-02** | **AC1-281125-01** | **ACI.111225.03** |
| **Metals** | | | | | |
| Leachable Aluminum (Al) | ug/L | ND | 540 | 580 | 1200 |
| Leachable Antimony (Sb) | ug/L | ND | ND | ND | ND |
| Leachable Arsenic (As) | ug/L | ND | 20 | ND | ND |
| Leachable Barium (Ba) | ug/L | 79 | 110 | 120 | 130 |
| Leachable Beryllium (Be) | ug/L | ND | ND | ND | ND |
| Leachable Boron (B) | ug/L | ND | 1200 | 1000 | 850 |
| Leachable Cadmium (Cd) | ug/L | ND | 3.5 | ND | ND |
| Leachable Calcium (Ca) | ug/L | 910000 | 1100000 | 1000000 | 970000 |
| Leachable Chromium (Cr) | ug/L | ND | 24 | ND | ND |
| Leachable Cobalt (Co) | ug/L | ND | ND | ND | ND |
| Leachable Copper (Cu) | ug/L | ND | 96 | 46 | 49 |
| Leachable Iron (Fe) | ug/L | ND | 1200 | 2000 | 1500 |
| Leachable Lead (Pb) | ug/L | ND | 140 | 190 | 490 |
| Leachable Lithium (Li) | ug/L | ND | ND | ND | ND |
| Leachable Magnesium (Mg) | ug/L | 430000 | 40000 | 16000 | 12000 |
| Leachable Manganese (Mn) | ug/L | ND | 1100 | 1200 | 1600 |
| Leachable Molybdenum (Mo) | ug/L | ND | ND | ND | ND |
| Leachable Nickel (Ni) | ug/L | ND | 49 | ND | ND |
| Leachable Potassium (K) | ug/L | 12000 | 6400 | 9200 | 24000 |
| Leachable Selenium (Se) | ug/L | ND | ND | ND | ND |
| Leachable Silver (Ag) | ug/L | ND | ND | ND | ND |
| Leachable Strontium (Sr) | ug/L | 1900 | 2100 | 2000 | 1300 |
| Leachable Thallium (Tl) | ug/L | ND | ND | ND | ND |
| Leachable Tin (Sn) | ug/L | ND | ND | ND | ND |
| Leachable Uranium (U) | ug/L | ND | ND | ND | ND |
| Leachable Vanadium (V) | ug/L | 21 | ND | ND | ND |
| Leachable Zinc (Zn) | ug/L | ND | 12000 | 1700 | 1000 |
| **Inorganics** | | | | | |
| Sample Weight (as received) | g | 100 | 100 | 100 | 100 |
| Sulphate (SO4) | mg/kg | 26000 | 11000 | 7900 | 8600 (1) |
| Initial pH | N/A | 5.2 | 5.0 | 4.9 | 5.0 |
| Final pH | N/A | 9.8 | 5.5 | 5.4 | 5.2 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentratior

**Results relate only to the items teste**

| ELEMENTS BY ICP/MS (SOLID) | | 30-Dec |
|---|---|---|
| Bureau Veritas ID | | AYSO99 |
| Sampling Date | | 2025/12/30 |
| COC Number | | N/A |
| | **UNITS** | **AC1-301225-03** |
| **Metals** | | |
| Leachable Aluminum (Al) | ug/L | 490 |
| Leachable Antimony (Sb) | ug/L | ND |
| Leachable Arsenic (As) | ug/L | ND |
| Leachable Barium (Ba) | ug/L | 110 |
| Leachable Beryllium (Be) | ug/L | ND |
| Leachable Boron (B) | ug/L | 1400 |
| Leachable Cadmium (Cd) | ug/L | ND |
| Leachable Calcium (Ca) | ug/L | 1100000 |
| Leachable Chromium (Cr) | ug/L | ND |
| Leachable Cobalt (Co) | ug/L | 11 |
| Leachable Copper (Cu) | ug/L | 100 |
| Leachable Iron (Fe) | ug/L | 1200 |
| Leachable Lead (Pb) | ug/L | 320 |
| Leachable Lithium (Li) | ug/L | ND |
| Leachable Magnesium (Mg) | ug/L | 13000 |
| Leachable Manganese (Mn) | ug/L | 1200 |
| Leachable Molybdenum (Mo) | ug/L | ND |
| Leachable Nickel (Ni) | ug/L | ND |
| Leachable Potassium (K) | ug/L | 11000 |
| Leachable Selenium (Se) | ug/L | ND |
| Leachable Silver (Ag) | ug/L | ND |
| Leachable Strontium (Sr) | ug/L | 2200 |
| Leachable Thallium (Tl) | ug/L | ND |
| Leachable Tin (Sn) | ug/L | ND |
| Leachable Uranium (U) | ug/L | ND |
| Leachable Vanadium (V) | ug/L | ND |
| Leachable Zinc (Zn) | ug/L | 2100 |
| **Inorganics** | | |
| Sample Weight (as received) | g | 100 |
| Sulphate (SO4) | mg/kg | 8400 |
| Initial pH | N/A | 4.9 |
| Final pH | N/A | 5.4 |

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentratior

**Results relate only to the items teste**

## Appendix F- Odor Complaint Log

No complaints received.

NOTE:

Individual complainant information has been recorded as per the approval and is available from MIRROR NS and HRM upon request.

## Appendix G – Waste Oil Summary

| SiteName | SiteAddress | SiteCity | SiteProvince | ServiceDate | WorkOrderNumber | PartNumber | Customer Description | RemovalVolume | VolumeUOM |
|---|---|---|---|---|---|---|---|---|---|
| MIRROR NOVA SCOTIA | 600 OTTER LAKE DRIVE | Lakeside | Nova Scotia | 2025-05-01 | Docket 006 | 1505 | Used Oil Collection (UOMA) | 400.0000 | Litre |
| MIRROR NOVA SCOTIA | 600 OTTER LAKE DRIVE | Lakeside | Nova Scotia | 2025-05-12 | W3424999 | 1505 | Used Oil Collection (UOMA) | 400.0000 | Litre |
| MIRROR NOVA SCOTIA | 600 OTTER LAKE DRIVE | Lakeside | Nova Scotia | 2025-07-15 | Docket 06 | 1505 | Used Oil Collection (UOMA) | 100.0000 | Litre |
| MIRROR NOVA SCOTIA | 600 OTTER LAKE DRIVE | Lakeside | Nova Scotia | 2025-07-31 | Docket 38 | 1505 | Used Oil Collection (UOMA) | 240.0000 | Litre |
| MIRROR NOVA SCOTIA | 600 OTTER LAKE DRIVE | Lakeside | Nova Scotia | 2025-09-22 | Docket | 1505 | Used Oil Collection (UOMA) | 400.0000 | Litre |

## Appendix H – Video Inspection

# Memo

DILLON CONSULTING

**To:** Steve Copp, Landfill/Safety Manager, MIRROR NS

**From:** Chris Shortall, P.Eng.

**cc:** Daniel Campbell, EIT

**Date:** July 21, 2025

**Subject:** Otter Lake Leachate Collection Piping CCTV Inspections

**Our File:** 25-1128

## 1.1 Overview

CleanEarth Technologies Inc. (Clean Earth) was retained by Mirror Nova Scotia (Mirror) to perform a comprehensive inspection of the leachate collection system piping for Cells 1 through 7 at the Residuals Disposal Facility (RDF). A representative from Dillon Consulting Ltd. (Dillon) was present on-site to oversee the flushing and inspection processes, providing guidance and direction to the operators. The inspection, which included flushing and video assessment of all cells and corresponding lines, was conducted between April 7th and June 2nd, 2025. The lines were flushed as needed to achieve optimal inspection lengths for recording. A summary of the findings is presented in **Table 1** of this report.

## 1.2 System Description

The leachate collection system comprises 150 mm and 200 mm HDPE pipes with perforated sections extending the length of each cell. Each collection pipe measures approximately 300 to 600 meters, with 3 to 10 pipes per cell. Refer to **Figure 1** for a site overview of the RDF leachate collection pipes in each cell. Each cell features a central perforated HDPE header pipe that collects leachate from the respective collection pipes. The header pipe drains into a sump, known as the "stomach," where the leachate is pumped via a double-walled HDPE forcemain to the leachate storage tank. The leachate is then transported for disposal at the Mill Cove Wastewater Treatment Plant (WWTP) in Bedford. Cells 3, 5, and 6 also include horseshoe-shaped perforated HDPE pipes, serving as a backup for cleaning the sump if the leachate collection header cleanout pipe becomes clogged. Leak detection pipes were also inspected during the site visit.

## 1.3 Inspection Methodology

To ensure representative data collection, Clean Earth, the Dillon representative, and Mirror personnel agreed on the following inspection methodology:

1. Identify collection pipes based on the map and pipe identifiers.
2. Remove end caps.
3. Flush pipes with a jet rod hose as far as possible.

4. Insert the camera for video recording and inspect piping as far as possible.
5. Repeat steps 3-4 if blockage is identified.

## 1.4 Results

The results from the video inspections are summarized in **Table 1** below.

Table 1: CCTV Inspection Results

| Pipe | Pipe Size (mm) | Approx Length (m) | Inspected Length (m) | Flush Count | In Water (m) | Out Water (m) | Comments | Inspection Date |
|---|---|---|---|---|---|---|---|---|
| Cell 1 & 2 | | | | | | | | |
| 1-1 | 150 | 84 | 55.98 | 1 | 17.60 | 19.35 | Flushing black water, hazy visibility, good condition - minor scaling, washed to 292ft. | 02-Jun |
| 1-2 | 150 | 171 | 59.00 | 1 | 14.49 | 16.40 | Good condition, minimal build up, perforated section, clear visibility, minimal water. | 08-Apr |
| 1-3 | 150 | 210 | 57.58 | 1 | 12.42 | 15.60 | Good condition, minimal build up, minor scaling. | 08-Apr |
| 1-4 | 150 | 245 | 51.15 | 1 | 13.32 | 22.00 | Good condition, minimal build up, perforated section. | 08-Apr |
| 1-5 | 150 | 411 | 18.56 | 1 | 13.98 | End in water | Good condition, minimal build up, camera stuck at end of inspection in water. | 08-Apr |

| Pipe | Pipe Size (mm) | Approx Length (m) | Inspected Length (m) | Flush Count | In Water (m) | Out Water (m) | Comments | Inspection Date |
|---|---|---|---|---|---|---|---|---|
| 1-6 | 150 | - | 56.09 | 1 | 14.88 | 16.80 | Good condition, minor scaling , minor white build up, perforated. | 02-Jun |
| 1-7 | 150 | 455 | 54.83 | 1 | 13.34 | 15.13 | Good condition, Hazy visibility, a bit dirty, minor white build up, white build up towards end, perforated. | 02-Jun |
| 1-8 | 150 | 461 | 55.93 | 1 | 14.60 | 21.91 | Good condition, minor white build up, grass observed at 14.5m, minor white scaling, CCTV recorded on way out. | 02-Jun |
| 1-9 | 150 | 467 | 56.01 | 1 | 12.21 | 32.12 | Flushing black water, good condition with clear visibility, minor scaling, minor white build up, perforated. | 02-Jun |
| 1-10 | 150 | 485 | 58.75 | 1 | 10.93 | 39.44 | Pipe deformed at 4.70m, otherwise good condition, minor white scaling, perforated. | 02-Jun |
| 1-Header | 200 | 170 | 59.86 | 1 | 30.45 | 39.94 | Good condition, minor scaling, bit of water and white scaling at 55.93m | 02-Jun |

| Pipe | Pipe Size (mm) | Approx Length (m) | Inspected Length (m) | Flush Count | In Water (m) | Out Water (m) | Comments | Inspection Date |
|---|---|---|---|---|---|---|---|---|
| Cell 3 | | | | | | | | |
| 3-1 | 150 | 281 | 56.56 | 1 | - | - | Good condition, some water, minor scaling, perforated. | 02-Jun |
| 3-2 | 150 | 498 | 55.96 | 1 | 14.03 | 22.57 | Good condition, minor white scaling, perforated. | 02-Jun |
| 3-3 | 150 | 498 | 51.34 | 1 | 11.07 | 33.03 | Good condition, minimal build up, perforated section after water (~30m). | 09-Apr |
| 3-4 | 150 | 534 | 23.26 | 2 | 12.13 | End in water | Good condition, minimal build up, camera stuck at end of inspection in water. | 09-Apr |
| 3-Header #1 | 200 | 92 | 27.70 | 1 | - | - | Good condition, garbage observed at 8.46m, 26.67m , and end of inspection. | 02-Jun |
| 3-Header #2 | 200 | 92 | 20.03 | 1 | 1.15<br>5.95 | 12.66<br>End in water | Good condition, minimal build up, camera stuck at end of inspection in water. | 09-Apr |

| Pipe | Pipe Size (mm) | Approx Length (m) | Inspected Length (m) | Flush Count | In Water (m) | Out Water (m) | Comments | Inspection Date |
|---|---|---|---|---|---|---|---|---|
| 3-Horseshoe #1 | 150 | 88 | 46.54 | 1 | 18.63 | End in water | Good condition, minor white scaling, end of inspection stuck on bend. | 02-Jun |
| 3-Horseshoe #2 | 150 | 88 | 46.48 | 1 | 16.16 | End in water | Good condition, minor white scaling, stuck on bend at end of inspection. | 02-Jun |
| Cell 4 | | | | | | | | |
| 4-1 | 150 | 436 | 33.47 | 2 | 16.59 | End in water | Good condition, minimal build, hazy visibility, camera stuck at end of inspection in water. | 07-Apr |
| 4-2 | 150 | 548 | 17.31 | 1 | 12.54 | End in water | Good condition, minimal build up, blocked at end of inspection in water. | 07-Apr |
| 4-3 | 150 | 552 | 18.33 | 3 | 13.65 | End in water | Good condition, reddish sediment built up, minor white scaling, camera stuck at end of inspection in water. | 07-Apr |

| Pipe | Pipe Size (mm) | Approx Length (m) | Inspected Length (m) | Flush Count | In Water (m) | Out Water (m) | Comments | Inspection Date |
|---|---|---|---|---|---|---|---|---|
| 4-Header | 200 | 94 | 24.33 | 1 | 16.67 | End in water | Good condition, some scum built up near water, camera stuck at end of inspection in water. | 07-Apr |
| Cell 5 | | | | | | | | |
| 5-1 | 150 | 565 | 38.09 | 1 | 18.71 | 21.52 | Good condition, minimal build up, camera stuck at end of inspection in water. | 09-Apr |
| 5-2 | 150 | 582 | 57.19 | 1 | 12.57 | 35.28 | Good condition, minimal build up, perforated. | 09-Apr |
| 5-3 | 150 | 600 | 61.20 | 1 | 2.49<br>13.30 | 7.53<br>35.28 | Good condition, minimal build up, camera stuck at end of inspection in water. | 09-Apr |
| 5-Header | 200 | 127 | 31.93 | 2 | 22.02 | End in water | Good condition, minimal build up, camera stuck at end of inspection in water. | 09-Apr |
| 5-Horseshoe #1 | 150 | 79 | 58.70 | 1 | 11.51 | End in water | Good condition, minimal build up, camera stuck at end of inspection in water. | 09-Apr |

| Pipe | Pipe Size (mm) | Approx Length (m) | Inspected Length (m) | Flush Count | In Water (m) | Out Water (m) | Comments | Inspection Date |
|---|---|---|---|---|---|---|---|---|
| 5-Horseshoe #2 | 150 | 79 | 58.66 | 1 | 12.29 | End in water | Good condition, minimal build up, camera stuck at end of inspection in water. | 09-Apr |
| 5-Leak Detection | 200 | 127 | 55.65 | 1 | 15.00 | 16.00 | Good condition, minimal build up, perforated. | 07-Apr |
| Cell 6 | | | | | | | | |
| 6-1 | 150 | 594 | 14.54 | 1 | 22.70 | End in water | Good condition, minimal build up, camera stuck at end of inspection in water. | 07-Apr |
| 6-2 | 150 | 594 | 48.61 | 1 | 16.00 | End in water | Good condition, minimal buildup, in water for most of inspection. | 07-Apr |
| 6-3 | 150 | 584 | 24.58 | 1 | 14.89 | End in water | Good condition, minimal build up, camera stuck at end of inspection in water. | 07-Apr |
| 6-Header | 200 | 116 | 30.52 | 1 | 23.64 | End in water | Good condition, minimal build up, camera stuck at end of inspection in water. | 07-Apr |
| 6-Horseshoe #1 | 150 | 97 | 62.08 | 1 | 14.00 | End in water | Good condition, minimal build up, in water for most of inspection. | 07-Apr |

| Pipe | Pipe Size (mm) | Approx Length (m) | Inspected Length (m) | Flush Count | In Water (m) | Out Water (m) | Comments | Inspection Date |
|---|---|---|---|---|---|---|---|---|
| 6-Horseshoe #2 | 150 | 97 | 57.99 | 1 | 14.95 | End in water | Good condition, minimal build up, in water for most of inspection. | 07-Apr |
| 6-Leak Detection | 200 | 116 | 52.44 | 1 | 5.00 | 9.00 | Good condition, minor scum built up. | 07-Apr |
| Cell 7 | | | | | | | | |
| 7-1 | 150 | 288 | 37.79 | 1 | 12.73 | End in water | Good condition with minimal buildup, in water for most of inspection, stuck at end of inspection. | 07-Apr |
| 7-2 | 150 | 290 | 62.28 | 1 | | End in water | Good condition, hazy visibility, minor build up. | 02-Jun |
| 7-3 | 150 | 289 | 65.74 | 1 | 2.97<br>12.95 | 5.37<br>65.74 | Good condition, hazy visibility, minor build up. | 02-Jun |
| 7-Header | 200 | 130 | Approx. 50.00 | 1 | 18.92 | End in water | Good condition, hazy visibility, minor scaling. | 02-Jun |
| 7-Leak Detection #1 | 200 | 130 | 53.50 | 1 | 27.08 | 33.00 | Good condition with minimal buildup, stuck at end of inspection. | 07-Apr |
| 7-Leak Detection #2 | 200 | 130 | 61.58 | 1 | - | - | Good condition, minor scaling. | 02-Jun |

## 1.5 Observations and Recommendations

1. Leachate piping was found to generally be in good condition, with minor build up. Deformation was note at 4.70m of Cell 1 - Pipe 10.
2. The lateral camera and inspection method encountered difficulties navigating bends and HDPE extrusion beads, limiting the inspection of some pipes.
3. Wet conditions were encountered when attempting piping inspections in April.
4. Allocate additional time for water drainage after flushing to allow for more accurate pipe condition assessments.
5. Conduct a dry-run with the push camera after each flush to identify blockages that may not impede the jet rod but could affect the camera.
6. Perform jet-rodding and video camera inspection simultaneously to ensure efficient drainage and blockage removal, facilitating more effective camera recording.

For further details, please refer to the attached tables and figures. We appreciate your attention to these findings and recommendations.


Conditions of Use

Verify elevations and/or dimensions on drawing prior to use. Report any discrepancies to Dillon Consulting Limited.

Do not scale dimensions from drawing.

Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Dillon Consulting Limited.

**MIRROR NS**

DILLON CONSULTING

OTTER LAKE WASTE MANAGEMENT FACILITY
LEACHATE SYSTEM INSPECTION

PROJECT NO: 17-5504

DATE: OCTOBER 2017

SCALE: 1:2000

**SITE PLAN**

DRAWING NO: 1

**Otter Lake Landfill Gas Production and Flare Report**

| Year | Average cfm | Full Year Estimate | Notes |
|---|---|---|---|
| | | (cubic feet) | |
| 2025 | 303 | 159,378,330 | Cells 6-7 |
| 2024 | 427 | 224,627,540 | Cells 6-7 |
| 2023 | 716 | 376,206,710 | Cells 6-7 |
| 2022 | 717 | 377,205,840 | Cells 4-7 |
| 2021 | 699 | 367,486.,700 | Cells 4-7 |
| 2020 | 764 | 401,778,140 | Cells 4-7 |
| 2019 | 733 | 390,524,420 | Cells 4-7 |
| 2018 | 796 | 456,581,080 | Cells 4-6 (Cell 7 on line Dec 12, 2018) |
| 2017 | 874 | 459,225,550 | Cells 4-6 |
| 2016 | 965 | 502,148,610 | Cells 4-6 |
| 2015 | 1022 | 536,970,820 | Cells 4-6 |
| 2014 | 747 | 392,492,420 | Cells 4-6 |