strum CONSULTING

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June 27, 2025

Mr. Steve Copp
Mirror Nova Scotia Limited
600 Otter Lake Drive
Lakeside, NS B3T 2E2

Dear Mr. Copp,

Re: May 2025 Performance Audit
Otter Lake Waste Processing & Disposal Facility

In May 2025, Strum Consulting was retained by Mirror Nova Scotia Limited (Mirror) to oversee a Performance Audit at the Otter Lake Waste Processing & Disposal Facility (Otter Lake) located at 600 Otter Lake Drive in Lakeside, NS.

The purpose of the Quarterly Performance Audit is to characterize the incoming residential waste stream and assess the percentage of compostable waste in this stream by mass. The audit also captures the incoming percentage of white goods and household hazardous waste (HHW). This letter report provides a summary of the Performance Audit completed on May 28, 2025.

SUMMARY

Based on 10 samples being collected during the May 2025 Performance Audit, the total compostable waste percentage per area ranged from a minimum of 2.54% to a maximum of 17.05%. The total weighted Compostable Waste Percentage for the May 2025 Audit is calculated to be 8.50%.

Using the calculated 95% confidence interval, the percentage of Estimated Annual Compostable Waste is calculated to be between 4.38% and 12.61%.

As additional sampling will be completed during future quarterly audits, it is expected that the statistical data will vary as more audit data becomes available.

BACKGROUND

In March 2022, Nova Scotia Environment & Climate Change (NSECC) issued an updated Municipal Approval for Otter Lake, allowing the Front End Processor and Waste Stabilization Facility (FEP/WSF) to be deactivated upon the submission and acceptance of a Compliance Plan in accordance with the Approval requirements.

As per the Approval, the Performance Targets for Otter Lake include (but are not limited to) a long-term goal of compostable waste not exceeding 10% of the total amount of municipal solid waste landfilled, by mass. In September 2023, NSECC approved the following timeline for working towards this long-term Performance Target of maximum per cent compostable waste in the garbage stream:

- March 31, 2024 - 11.61% Compostable Waste
- March 31, 2025 - 10.81% Compostable Waste
- March 31, 2026 - 10.00% Compostable Waste

The Compliance Plan outlines how Quarterly Performance Audits will be completed as a means to quantify the presence of compostable waste being received in the residential waste stream at Otter Lake. White goods and HHW were added to the audits based on comments received from NSECC after their review of the draft Compliance Plan.

METHODOLOGY

The methodology followed for the May 2025 Performance Audit reflects best practices identified in the Divert NS Waste Audit Manual and Field Procedures Guide (2017), as well as site specific processes established by Halifax Regional Municipality (HRM) and is summarized below.

Sample Load Identification

Residential curbside collection is divided into eight collection areas in HRM and condominium properties which are also considered to be residential. The geographic descriptions of the various areas are described in Table A, below.

Table A: Collection Area Descriptions

Waste Collection Area	Area Description
1	Halifax (former city limits); Spryfield
2	Dartmouth (former city limits)
3	Bedford; Hammonds Plains; Pockwock
4	Beechville-Timberlea; Herring Cove; Prospect; Peggy's Cove; St. Margaret's Bay to Hubbards
5	Sackville; Beaver Bank; Fall River; Waverley, Wellington; Dutch Settlement
6	Cole Harbour; Westphal; Cherry Brook; Eastern Passage; Cow Bay
7	Porters Lake; Lawrencetown; Chezzetcook; Lake Echo; Preston
8	Middle Musquodoboit; Musquodoboit Harbour; Elderbank; Sheet Harbour; Eastern Shore
Condos	Multi-residential style properties located in various communities

Based on residential curbside collection schedules for each specific collection area and the scheduled audit date and time, sample loads are selected ahead of time by HRM staff. A random number generator is used to choose which vehicle will be sampled.

The Alberta Provincial Waste Characterization Framework (2005) was reviewed and used to guide the number and weight of the samples to be collected. A minimum annual sample number of 40 samples is recommended, and as such, two samples were collected from collection Area 5 and one sample from all other curbside collection areas (Areas 1-4, 6-7, and Condos). To avoid skewing the annual data, any duplicate samples are averaged to give a single value per area for each audit.

The selected loads were visually inspected at the tip face upon arrival and photographs were taken as shown in the attached photo log (Attachment 1). The following information was recorded for each load:

- Collection vehicle and route numbers
- Date/Time of arrival
- Date/Time sample taken
- Gross and tare weight of truck
- Weight of sample
- Number/type of bulky items observed
- Names of persons taking the sample
- Date/Time of sorting

Sample Size

Photographs of the auditing process are provided as Attachment 1. Once emptied from the vehicle, multiple sections of the load were selected in order to draw a sample that was representative of the load. Each sample was to contain a mix of clear and black bags. Containers shown in Photo 1 (Attachment 1) were used to collect a sample between 90 and 135 kg.

Records documenting the identifying information of each vehicle sampled (scale tickets - Attachment 2) and the Performance Audit Record field data sheets (Attachment 3) are also attached to this report.

Material Categories

The categories that were used to define the different types of compostable waste are consistent with the Approval and are outlined below in Table B.

Table B: Compostable Waste Sorting Categories

Category	Sub-Category	Examples
Fibre	Newsprint/Paper	The Chronicle Herald, The Coast, Masthead News, The Cobequid/Dartmouth/Cole Harbour Wire, flyers
	Corrugated Cardboard/Boxboard	Consumer boxes (e.g., from appliances, storage, filing, and shipping)
Organics	Food Waste (Putrescible)	Whole vegetables, fruit, meat, fish, leftover food waste, eggshells, peels, oils, bones, fat, packaged food (if most of it consists of food)
	Yard Waste	Grass, leaves, brush, branches, wood chips, soil

Materials which did not fall into one of the above noted categories were counted, weighed, and categorized as one of the following:

- Other garbage
- HHW including lead-acid (automotive) batteries, post-consumer paint products, ethylene glycol, used oil, used glycol, used oil filters, glycol containers, and oil containers.
- White goods (items such as toasters, microwaves, and coffee makers that would be mostly composed of metal materials that can be disposed of in garbage bags). It should be noted that the majority of white goods are not marketable from a recycling perspective.

Sorting Procedure

The sorting team consisted of several Mirror staff. All staff were briefed on the sorting protocols, including familiarity with example materials for each sorting category. Strum staff were designated as “Lead” and responsible for quality control and data collection.

The audit space consisted of an open area set up with tables for sorting waste materials, containers clearly labeled for each of the waste categories, and digital scales for weighing the waste materials. The containers used for sorting were weighed prior to commencing the audit and recorded on the data sheets to allow for net sample weights to be determined.

To maintain consistency, the Lead was responsible for weighing and recording the data on dedicated data sheets for each area, each time a container was filled. The process continued for each respective area until the full sample was properly sorted and weighed.

PREVIOUS ASSESSMENTS

A baseline was developed through previous Performance Audits that were completed for the 2022/2023 fiscal year in May 2022 (report dated June 22, 2022), August 2022 (report dated November 4, 2022), November 2022 (report dated February 2, 2023), and February 2023 (report dated April 6, 2023). Using the combined data collected during the 2022/2023 quarterly Performance Audits, the total weighted Compostable Waste Percentage value of 12.41% was found.

Performance Audits for the 2023/2024 fiscal year began in May 2023 (report dated June 26, 2023), with additional audits completed in August 2023 (report dated October 30, 2023), November 2023 (report dated January 9, 2024), and February 2024 (report dated March 18, 2024). Using the combined data collected during the 2023/24 quarterly Performance Audits, the total weighted Compostable Waste Percentage value of 11.64% was found.

Performance Audits for the 2024/25 fiscal year began in May 2024 (report dated June 18, 2024), with additional audits completed in August 2024 (report dated September 24, 2024), and November 2024 (report dated December 4, 2024), and February 2025 (report dated March 17, 2025). Using the combined data collected during the 2024/2025 quarterly Performance Audits, the total weighted Compostable Waste Percentage value of 11.50% was found.

MAY 2025 PERFORMANCE AUDIT SUMMARY

A summary of the May 2025 Performance Audit completed at Otter Lake is provided below in Table C. The May 2025 Performance Audit field data sheets containing the data collected respective to each waste collection area during the audit are attached to this report as Attachment 3.

Table C: May 2025 Performance Audit Results

Waste Collection Area	Category Percentage (%)							
	Garbage/ Residue	HHW	White Goods	Fibre - Newsprint/ Paper	Fibre - Corrugated Cardboard	Organics - Food/ Putrescible Waste	Organics - Yard Waste	Total Compostable Waste
1	90.07%	0.00%	0.00%	4.37%	2.12%	2.91%	0.00%	9.40%
2	88.18%	0.00%	0.00%	5.64%	0.36%	5.82%	0.00%	11.82%
3	94.01%	0.22%	0.00%	3.30%	0.00%	1.87%	0.00%	5.17%
4	88.99%	0.00%	3.00%	4.76%	0.88%	1.94%	0.00%	7.58%
5A	84.27%	0.00%	5.96%	5.28%	0.56%	3.37%	0.00%	9.21%
5B	85.90%	0.00%	6.54%	5.26%	0.64%	1.03%	0.38%	7.31%
6	93.49%	0.19%	0.00%	3.16%	0.56%	1.58%	0.00%	5.30%
7	96.93%	0.00%	0.00%	2.02%	0.00%	0.53%	0.00%	2.54%
8	90.00%	0.00%	0.00%	4.90%	0.80%	4.20%	0.00%	9.90%
Condos	82.55%	0.00%	0.00%	7.65%	0.00%	9.13%	0.27%	17.05%

Notes:
1. Total compostable waste percentage based on aggregate of four compostable waste category percentages.

Using the data in Table C above, the total compostable waste percentage ranged from a minimum of 2.54% (Area 7) to a maximum of 17.05% (Condos), based on the 10 samples collected during the May 2025 Performance Audit.

OVERALL COMPOSTABLE WASTE

As shown in Table D below, given the May 2025 total compostable waste percentage per area and the three-year average of waste tonnage per area, the estimated compostable waste tonnage per year has been calculated. Using the total of the Estimated Annual Compostable Waste (4118.39 tonnes) and the three-year waste average total (48479.27 tonnes), the weighted Compostable Waste Percentage is calculated to be 8.50%. Supporting data is provided as Table 1 (Attachment 4).

Table D: Estimated Annual Compostable Waste based on May 2025 Data

Waste Collection Area	Three Year Waste Average (Tonnes)	May 2025 Total Compostable Waste	Estimated Annual Compostable Waste (Tonnes)
1	9886.00	9.40%	929.68
2	6744.75	11.82%	797.11
3	4435.01	5.17%	229.23
4	5337.22	7.58%	404.41
5	8633.03	8.26%	713.14
6	5075.21	5.30%	269.10
7	2894.99	2.54%	73.64
8	3230.78	9.90%	319.85
Condos	2242.28	17.05%	382.24
Total	**48479.27**	**N/A**	**4118.39**
Compostable Waste Percentage = (4118.39/48479.27) X 100 = 8.50%			

Notes:
1. Data used to calculate three-year average provided by Mirror and included tonnage from the fiscal years 2022/2023, 2023/2024, and 2024/2025.
2. *May 2025 Total Compostable Waste percentage for Area 5 is based on average of the two samples (5A and 5B) collected during the May 2025 waste audit.

Based on the data in Table D above, the Estimated Annual Compostable Waste per area ranges from a minimum of 73.64 tonnes (Area 7) to a maximum of 929.68 tonnes (Area 1).

DESCRIPTIVE STATISTICS

A descriptive statistical analysis was completed on the Estimated Annual Compostable Waste tonnage and the Estimated Annual Food/Putrescible Waste calculated per area from the May 2025 Performance Audit. The statistical analysis was completed using the Microsoft Excel Analysis ToolPak Descriptive Statistics analysis tool. Supporting data for the statistical analysis is provided as Tables 1 – 4 (Attachment 4).

Compostable Waste

At 95% confidence interval, the Estimated Average Annual Compostable Waste tonnage per area is calculated to be between 235.81 tonnes (lower bound) and 679.39 tonnes (upper bound). The confidence interval was calculated by subtracting/adding the calculated 95% confidence level (221.79) from the mean (457.60 tonnes).

By multiplying the lower bound (235.81 tonnes) and the upper bound (679.39 tonnes) of the 95% confidence interval by nine (for each area), the Total Estimated Annual Compostable Waste would have a calculated range from 2122.31 tonnes to 6114.47 tonnes. By dividing the lower and upper range of the Total Estimated Annual Compostable Waste by the three-year waste average total (48479.27 tonnes), and multiplying the values by 100%, the percentage of Estimated Annual Compostable Waste is calculated to be between 4.38% and 12.61%.

Food/Putrescible Waste

At 95% confidence interval, the Estimated Average Annual Food/Putrescible Waste tonnage per area is calculated to be between 75.70 tonnes (lower bound) and 255.99 tonnes (upper bound). The confidence interval was calculated by subtracting/adding the calculated 95% confidence level (90.14) from the mean (165.85 tonnes).

By multiplying the lower bound (75.70 tonnes) and the upper bound (255.99 tonnes) of the 95% confidence interval by nine (for each area), the Total Estimated Annual Food/Putrescible Waste would have a calculated range from 681.34 tonnes to 2303.90 tonnes. By dividing the lower and upper range of the Total Estimated Annual Food/Putrescible Waste by the three-year waste average total (48479.27 tonnes), and multiplying the values by 100%, the percentage of Estimated Annual Food/Putrescible Waste is calculated to be between 1.41% and 4.75%. The estimated annual Food Waste percentage is calculated to be 3.08%.

The above noted statistical analyses are based on a total of 10 samples collected during the May 2025 Performance Audit. As additional sampling will be completed during future audits, it is expected that the statistical data will vary as more data becomes available.

CLOSURE

This report was prepared by Callum Drever, MIT, Junior Environmental Geoscientist, and was reviewed by James Foley, P.Geo., Senior Environmental Geoscientist. Should additional information become available, Strum requests that this information be brought to our attention immediately so that we can re-assess the conclusions presented in this report.

This Report and any use of the Report is subject to the terms herein (see attached Statement of Qualifications and Limitations).

If you have any questions, please contact us.

Thank you,

Callum Drever, MIT
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ATTACHMENT 1
PHOTOGRAPH LOG

Photo 1: Waste audit sample collected from HRM collection Area 1. Photo taken on May 16, 2025.

Photo 2: Food waste sample collected from HRM collection Area 1. Photo taken on May 28, 2025, during waste audit.

Photo 3: Newsprint/paper waste bin of HRM collection Area 1. Photo taken on May 28, 2025, during waste audit.

Photo 4: Old corrugated containers (OCC) waste bin sorted from HRM collection Area 1. Photo taken on May 28, 2025, during waste audit.

Photo 5: Waste collection vehicle unloading waste collected from HRM Area 2.
Photo taken on May 17, 2025.

Photo 6: OCC waste sample from HRM collection Area 2.
Photo taken on May 28, 2025, during waste audit.

Photo 7: Paper waste collected from HRM collection Area 2.
Photo taken on May 28, 2025, during waste audit.

Photo 8: Food waste sample collected from HRM collection Area 2.
Photo taken on May 28, 2025, during waste audit.

Photo 9: Waste collection pile from HRM collection Area 3.
Photo taken on May 23, 2025.

Photo 10: Hazardous waste sample collected from HRM collection Area 3.
Photo taken on May 28, 2025.

Photo 11: Newsprint/paper waste bin of HRM collection Area 3.
Photo taken on May 28, 2025, during waste audit.

Photo 12: Food waste bin sorted from HRM collection Area 3.
Photo taken on May 28, 2025, during waste audit.

Photo 13: Waste collection vehicle unloading waste collected from HRM Area 4. Photo collected May 21, 2025.

Photo 14: White goods waste sample from HRM collection Area 4. Photo taken on May 28, 2025, during waste audit.

Photo 15: OCC waste bin sorted from HRM collection Area 4. Photo taken on May 28, 2025, during waste audit.

Photo 16: Food waste bin sorted from HRM collection Area 4. Photo taken on May 28, 2025, during waste audit.

Photo 17: Waste collection vehicle unloading waste collected from HRM Area 5A. Photo taken on May 14, 2025.

Photo 18: Food waste audit sample from HRM collection Area 5A. Photo taken on May 28, 2025.

Photo 19: White goods waste sorted from HRM collection Area 5A. Photo taken on May 28, 2025, during waste audit.

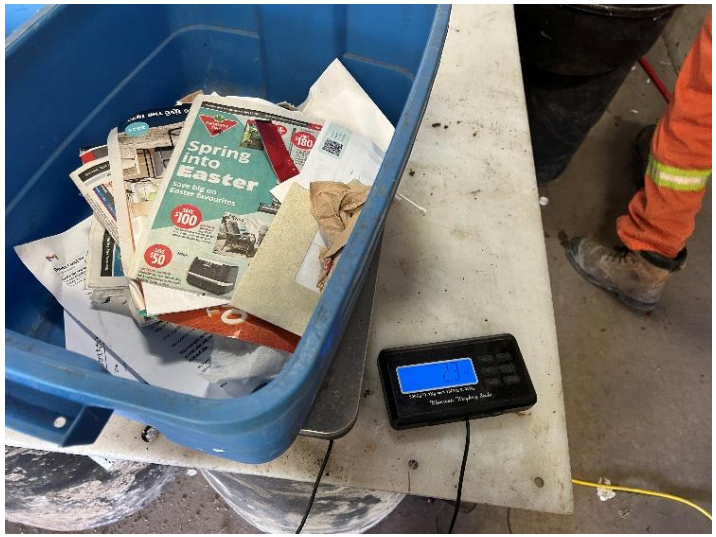

Photo 20: Newsprint/paper waste sorted from HRM collection Area 5A. Photo taken on May 28, 2025, during waste audit.

Photo 21: Waste pile HRM collection Area 5B.
Photo taken on May 15, 2025.

Photo 22: Yard waste sample from HRM collection Area 5B (extra load).
Photo taken on May 28, 2025, during waste audit.

Photo 23: OCC waste sorted from HRM collection Area 5B (extra load).
Photo taken on May 28, 2025, during waste audit.

Photo 24: White goods waste bin sorted from HRM collection Area 5B (extra load).
Photo taken on May 28, 2025, during waste audit.

Photo 25: Waste collection pile from HRM Area 6.
Photo taken on May 16, 2025.

Photo 26: Food waste bin separated from HRM collection Area 6.
Photo taken on May 28, 2025, during waste audit.

Photo 27: Newsprint/paper waste bin separated from HRM collection Area 6.
Photo taken on May 28, 2025, during waste audit.

Photo 28: HHW waste bin separated from HRM collection Area 6.
Photo taken on May 28, 2025, during waste audit.

Photo 29: Waste collection pile from HRM Area 7.
Photo taken on May 21, 2025.

Photo 30: Waste audit sample from HRM collection Area 7.
Photo taken on May 28, 2025, during waste audit.

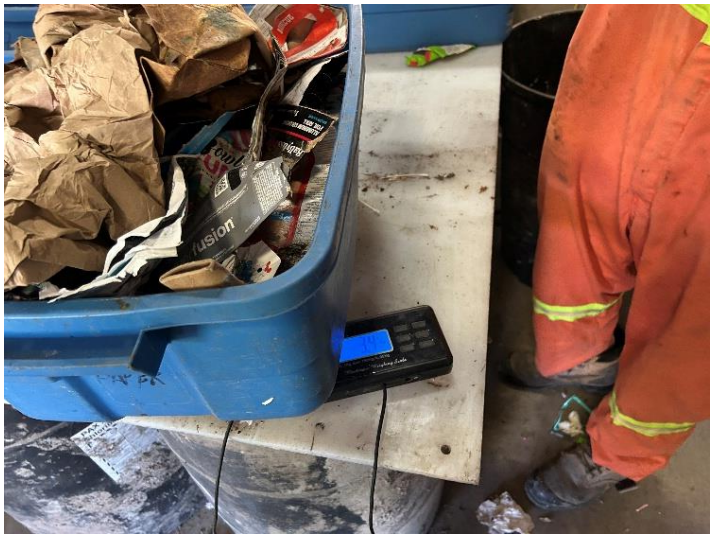

Photo 31: Newsprint/paper waste bin separated from HRM collection Area 7.
Photo taken on May 28, 2025, during waste audit.

Photo 32: Food waste bin sample from HRM collection Area 7.
Photo taken on May 28, 2025, during waste audit.

Photo 33: Waste collection pile from HRM Area 8.
Photo taken on May 22, 2025.

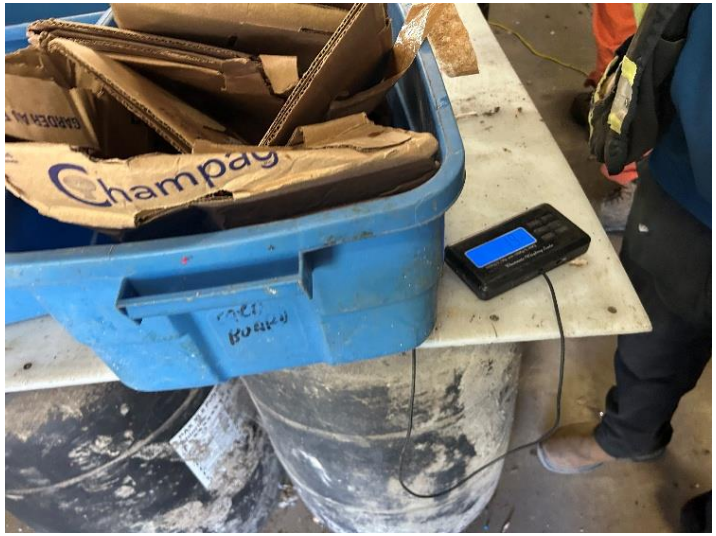

Photo 34: OCC waste bin sample from HRM collection Area 8.
Photo taken on May 28, 2025, during waste audit.

Photo 35: Newsprint/paper waste bin separated from HRM collection Area 8.
Photo taken on May 28, 2025, during waste audit.

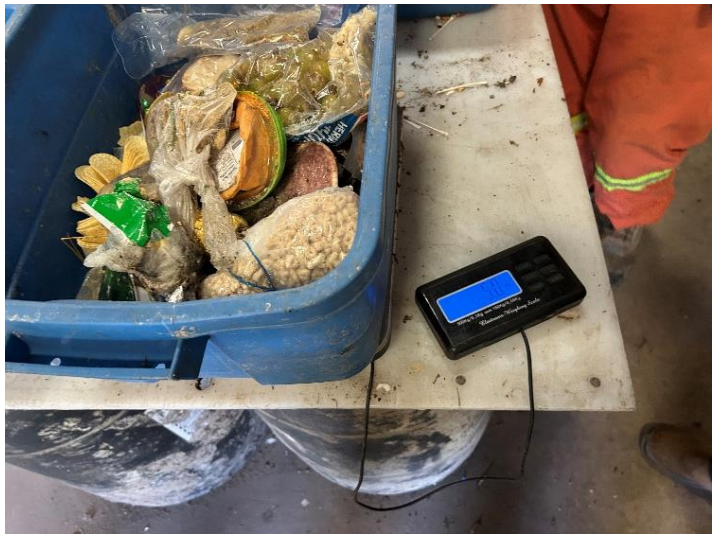

Photo 36: Food waste bin sample from HRM collection Area 8.
Photo taken on May 28, 2025, during waste audit.

Photo 37: Waste collection pile from HRM Area 9 (condos).
Photo taken on May 23, 2025.

Photo 38: Yard waste bin sample from HRM collection Area 9 (condos).
Photo taken on May 28, 2025, during waste audit.

Photo 39: Newsprint/paper waste bin separated from HRM collection Area 9 (condos).
Photo taken on May 28, 2025, during waste audit.

Photo 40: Food waste bin sample from HRM collection Area 9 (condos).
Photo taken on May 28, 2025, during waste audit.

ATTACHMENT 2
SCALE TICKETS

Halifax Regional Municipality

Scale Slip: 102901
05/16/2025 12:19:42
Clerk: DMS

Vehicle ID: RE1042
License Plate: 57-422-D
Waste Type: residential
Origin: HALIFAX
Invoice: 0400927
Royal Environmental Group

Gross Weight: 24,170 (kg)
Tare Weight: 16,620 (kg)
Net Weight: 7,550 (kg)

$0.00

Total: $0.00

Halifax Regional Municipality

Scale Slip: 102933
05/17/2025 12:23:52
Clerk: DMS

Vehicle ID: RE2015
License Plate: 62797D
Waste Type: residential
Origin: DARTMOUTH
Invoice: 0400927
Royal Environmental Group

Gross Weight: 24,360 (kg)
Tare Weight: 16,870 (kg)
Net Weight: 7,490 (kg)

$0.00

Total: $0.00

Halifax Regional Municipality

Scale Slip: 103068
05/23/2025 12:20:28
Clerk: DMS

Vehicle ID: RE1040
License Plate: 57420D
Waste Type: residential
Origin: BEDFORD/HAMMONDS PLAINS
Invoice: 0400927
Royal Environmental Group

Gross Weight: 25,510 (kg)
Tare Weight: 16,670 (kg)
Net Weight: 8,840 (kg)

$0.00

Total: $0.00

Halifax Regional Municipality

Scale Slip: 103015
05/21/2025 14:53:25
Clerk: Shelley

Vehicle ID: GFL007
License Plate: 45362D
Waste Type: residential
Origin: WESTERN COUNTY
Invoice: 0402150
GFL Environmental Inc

Gross Weight: 28,950 (kg)
Tare Weight: 16,830 (kg)
Net Weight: 12,120 (kg)

$0.00

Total: $0.00

Halifax Regional Municipality

Scale Slip: 102813
05/14/2025 11:56:29
Clerk: Shelley

Vehicle ID: RE1043
License Plate: 57423D
Waste Type: residential
Origin: SACKVILLE/FALL RIVER

Gross Weight: 24,890 (kg)
Tare Weight: 16,490 (kg)
Net Weight: 8,400 (kg)

Invoice: 0400927 $0.00
Royal Environmental Group

Total: $0.00

Halifax Regional Municipality

Scale Slip: 102850
05/15/2025 11:10:41
Clerk: DMS

Vehicle ID: RE2082
License Plate: 44-088-D
Waste Type: residential
Origin: SACKVILLE/FALL RIVER

Gross Weight: 24,790 (kg)
Tare Weight: 16,140 (kg)
Net Weight: 8,650 (kg)

Invoice: 0400927 $0.00
Royal Environmental Group

Total: $0.00

Halifax Regional Municipality

Scale Slip:	102909
	05/16/2025 14:26:53
Clerk:	DMS

Vehicle ID:	RE1035
License Plate:	55-579-D
Waste Type:	residential
Origin:	COLE HARBOUR/EASTERN PASSAGE
Invoice:	0400927
	Royal Environmental Group

Gross Weight:	28,490 (kg)	
Tare Weight:	16,900 (kg)	
Net Weight:	11,590 (kg)	
		$0.00
Total:		$0.00

(RE4034)

Halifax Regional Municipality

Scale Slip:	102991
	05/21/2025 08:33:58
Clerk:	Shelley

Vehicle ID:	MW6830
License Plate:	56483D
Waste Type:	residential
Origin:	PRESTON/LAWRENCETOWN/LK ECHO
Invoice:	0188466
	MILLER WASTE SYSTEMS

Gross Weight:	24,450 (kg)	
Tare Weight:	20,520 (kg)	
Net Weight:	3,930 (kg)	
		$0.00
Total:		$0.00

Halifax Regional Municipality

Scale Slip: 103033
05/22/2025 12:28:24
Clerk: DMS

Vehicle ID: ES4038
License Plate: 48770D
Waste Type: residential
Origin: EASTERN COUNTY
Invoice: 0028092
EASTERN SHORE CARTAGE

Gross Weight: 20,840 (kg)
Tare Weight: 16,130 (kg)
Net Weight: 4,710 (kg)

$0.00

Total: $0.00

Halifax Regional Municipality

Scale Slip: 103061
05/23/2025 11:07:08
Clerk: DMS

Vehicle ID: RE1073
License Plate: 48-885D
Waste Type: residential
Origin: DARTMOUTH CONDOS
Invoice: 0400927
Royal Environmental Group

Gross Weight: 22,390 (kg)
Tare Weight: 18,630 (kg)
Net Weight: 3,760 (kg)

$0.00

Total: $0.00

was in truck RE1401

ATTACHMENT 3
FIELD DATA SHEETS

Performance Audit Record

Date 28-May-25

Name of Supervisor **Maria MacHattie**

Area 1

Number of Sorters 5

Weighscale Ticket Information

Truck Number/ID	RE1042
Collection Area	Halifax
Date	16-May-25
Ticket Time	12:19:42
Gross Weight	24,170 KG
Tare Weight	16,620 KG
Net Weight	7,550 KG

Weigth of Gross Sample 125.5 KG

Weight of Tote Bin 50.0 KG

Date of Audit of Sample 28-May-25

Net Sample of Trash 75.5 KG

Sample Audit Time Started 8:30 AM

Number of Bulkies Observed 0

Sample Audit Time Completed 9:20 AM

Material	Empty Bin Weight (KG)	Total Separated Sample Weights (KG)		Net Sample (KG)	Compostables (%)
		1	2		
Garbage/Residue	50.0	118.0	-	68.0	90.07%
Fibre - Newsprint/Paper	2.2	4.1	1.4	3.3	4.37%
Fibre - OCC	1.1	2.7	-	1.6	2.12%
Food/Putrescible Waste	1.1	3.3	-	2.2	2.91%
Yard Waste	-	-	-	-	-
HHW	-	-	-	-	-
White Goods	-	-	-	-	-
Lost or Gained Mass	**Combined Weight Following Sorting**			0.00	
	125.5				

Notes:

Performance Audit Record

Date 28-May-25

Name of Supervisor **Maria MacHattie**

Area 2

Number of Sorters 5

Weighscale Ticket Information

Truck Number/ID	RE2015
Collection Area	Dartmouth
Date	17-May-25
Ticket Time	12:23:52
Gross Weight	24,360 KG
Tare Weight	16,870 KG
Net Weight	7,490 KG

Weigth of Gross Sample 105.5 KG

Weight of Tote Bin 50.5 KG

Date of Audit of Sample 28-May-25

Net Sample of Trash 55.0 KG

Sample Audit Time Started 9:25 AM

Number of Bulkies Observed 0

Sample Audit Time Completed 9:55 AM

Material	Empty Bin Weight (KG)	Total Separated Sample Weights (KG)		Net Sample (KG)	Compostables (%)
		1	2		
Garbage/Residue	50.5	99.0	-	48.5	88.18%
Fibre - Newsprint/Paper	1.1	4.2	-	3.1	5.64%
Fibre - OCC	1.1	1.3	-	0.2	0.36%
Food/Putrescible Waste	1.1	4.3	-	3.2	5.82%
Yard Waste	-	-	-	-	-
HHW	-	-	-	-	-
White Goods	-	-	-	-	-
Lost or Gained Mass	**Combined Weight Following Sorting**			0.47	
	106.0				

Notes:

Performance Audit Record

Date 28-May-25

Name of Supervisor Maria MacHattie

Area 3

Number of Sorters 4

Weighscale Ticket Information

Truck Number/ID	RE1040
Collection Area	Bedford/Hammonds Plains
Date	23-May-25
Ticket Time	12:20:28
Gross Weight	25,510 KG
Tare Weight	16,670 KG
Net Weight	8,840 KG

Weigth of Gross Sample 184.5 KG

Weight of Tote Bin 51.0 KG

Date of Audit of Sample 28-May-25

Net Sample of Trash 133.5 KG

Sample Audit Time Started 10:30 AM

Number of Bulkies Observed 0

Sample Audit Time Completed 10:55 AM

Material	Empty Bin Weight (KG)	Total Separated Sample Weights (KG)		Net Sample (KG)	Compostables (%)
		1	2		
Garbage/Residue	51.0	176.5	-	125.5	94.01%
Fibre - Newsprint/Paper	2.2	2.5	4.1	4.4	3.30%
Fibre - OCC	-	-	-	-	-
Food/Putrescible Waste	2.2	3.4	1.3	2.5	1.87%
Yard Waste	-	-	-	-	-
HHW	1.1	1.4	-	0.3	0.22%
White Goods	-	-	-	-	-
Lost or Gained Mass	**Combined Weight Following Sorting**			-0.27	
	184.0				

Notes:

Performance Audit Record

Date 28-May-25

Name of Supervisor Maria MacHattie

Area 4

Number of Sorters 5

Weighscale Ticket Information

Truck Number/ID	GFL007
Collection Area	Western County
Date	21-May-25
Ticket Time	14:53:25
Gross Weight	28,950 KG
Tare Weight	16,830 KG
Net Weight	12,120 KG

Weigth of Gross Sample 164.0 KG

Weight of Tote Bin 50.5 KG

Date of Audit of Sample 28-May-25

Net Sample of Trash 113.5 KG

Sample Audit Time Started 11:00 AM

Number of Bulkies Observed 0

Sample Audit Time Completed 11:40 AM

Material	Empty Bin Weight (KG)	Total Separated Sample Weights (KG)		Net Sample (KG)	Compostables (%)
		1	2		
Garbage/Residue	50.5	151.5	-	101.0	88.99%
Fibre - Newsprint/Paper	2.2	3.2	4.4	5.4	4.76%
Fibre - OCC	1.1	2.1	-	1.0	0.88%
Food/Putrescible Waste	1.1	3.3	-	2.2	1.94%
Yard Waste	-	-	-	-	-
HHW	-	-	-	-	-
White Goods	1.1	4.5	-	3.4	3.00%
Lost or Gained Mass	**Combined Weight Following Sorting**			0.00	
	164.0				

Notes:

Performance Audit Record

Date 28-May-25

Name of Supervisor **Maria MacHattie**

Area 5A

Number of Sorters 4

Weighscale Ticket Information

Truck Number/ID	RE1043
Collection Area	Sackville/ Fall River
Date	14-May-25
Ticket Time	11:56:29
Gross Weight	24,890 KG
Tare Weight	16,490 KG
Net Weight	8,400 KG

Weigth of Gross Sample 138.5 KG

Weight of Tote Bin 49.5 KG

Date of Audit of Sample 28-May-25

Net Sample of Trash 89.0 KG

Sample Audit Time Started 12:50 PM

Number of Bulkies Observed 0

Sample Audit Time Completed 1:20 PM

Material	Empty Bin Weight (KG)	Total Separated Sample Weights (KG)		Net Sample (KG)	Compostables (%)
		1	2		
Garbage/Residue	49.5	124.5	-	75.0	84.27%
Fibre - Newsprint/Paper	2.2	4.6	2.3	4.7	5.28%
Fibre - OCC	1.1	1.6	-	0.5	0.56%
Food/Putrescible Waste	2.2	1.3	3.9	3.0	3.37%
Yard Waste	-	-	-	-	-
HHW	-	-	-	-	-
White Goods	2.2	5.8	1.7	5.3	5.96%
Lost or Gained Mass	**Combined Weight Following Sorting**			-0.36	
	138.0				

Notes:

Performance Audit Record

Date 28-May-25

Name of Supervisor **Maria MacHattie**

Area 5B

Number of Sorters 5

Weighscale Ticket Information

Truck Number/ID	RE2082
Collection Area	Sackville/ Fall River
Date	15-May-25
Ticket Time	11:10:41
Gross Weight	24,790 KG
Tare Weight	16,140 KG
Net Weight	8,650 KG

Weigth of Gross Sample 128.0 KG

Weight of Tote Bin 50.0 KG

Date of Audit of Sample 28-May-25

Net Sample of Trash 78.0 KG

Sample Audit Time Started 11:40 AM

Number of Bulkies Observed 0

Sample Audit Time Completed 12:50 PM

Material	Empty Bin Weight (KG)	Total Separated Sample Weights (KG)		Net Sample (KG)	Compostables (%)
		1	2		
Garbage/Residue	50.0	117.0	-	67.0	85.90%
Fibre - Newsprint/Paper	1.1	5.2	-	4.1	5.26%
Fibre - OCC	1.1	1.6	-	0.5	0.64%
Food/Putrescible Waste	1.1	1.9	-	0.8	1.03%
Yard Waste	1.1	1.4	-	0.3	0.38%
HHW	-	-	-	-	-
White Goods	1.1	6.2	-	5.1	6.54%
Lost or Gained Mass	**Combined Weight Following Sorting**			0.00	
	128.0				

Notes:

Performance Audit Record

Date 28-May-25

Name of Supervisor Maria MacHattie

Area 6

Number of Sorters 5

Weighscale Ticket Information

Truck Number/ID	RE1035
Collection Area	Cole Harbour/ Eastern Passage
Date	16-May-25
Ticket Time	14:26:53
Gross Weight	28,490 KG
Tare Weight	16,900 KG
Net Weight	11,590 KG

Weigth of Gross Sample 157.5 KG

Weight of Tote Bin 50.0 KG

Date of Audit of Sample 28-May-25

Net Sample of Trash 107.5 KG

Sample Audit Time Started 1:20 PM

Number of Bulkies Observed 0

Sample Audit Time Completed 1:50 PM

Material	Empty Bin Weight (KG)	Total Separated Sample Weights (KG)		Net Sample (KG)	Compostables (%)
		1	2		
Garbage/Residue	50.0	150.5	-	100.5	93.49%
Fibre - Newsprint/Paper	2.2	1.4	4.2	3.4	3.16%
Fibre - OCC	1.1	1.7	-	0.6	0.56%
Food/Putrescible Waste	1.1	2.8	-	1.7	1.58%
Yard Waste	-	-	-	-	-
HHW	1.1	1.3	-	0.2	0.19%
White Goods	-	-	-	-	-
Lost or Gained Mass	**Combined Weight Following Sorting**			0.00	
	157.5				

Notes:

Performance Audit Record

Date 28-May-25

Name of Supervisor Maria MacHattie

Area 7

Number of Sorters 5

Weighscale Ticket Information

Truck Number/ID	MW6830
Collection Area	Preston/ Lawrencetown/Lake Echo
Date	21-May-25
Ticket Time	8:33:58
Gross Weight	24,450 KG
Tare Weight	20,520 KG
Net Weight	3,930 KG

Weigth of Gross Sample 163.0 KG

Weight of Tote Bin 49.0 KG

Date of Audit of Sample 28-May-25

Net Sample of Trash 114.0 KG

Sample Audit Time Started 1:50 PM

Number of Bulkies Observed 0

Sample Audit Time Completed 2:15 PM

Material	Empty Bin Weight (KG)	Total Separated Sample Weights (KG)		Net Sample (KG)	Compostables (%)
		1	2		
Garbage/Residue	49.0	159.5	-	110.5	96.93%
Fibre - Newsprint/Paper	1.1	3.4	-	2.3	2.02%
Fibre - OCC	-	-	-	-	-
Food/Putrescible Waste	1.1	1.7	-	0.6	0.53%
Yard Waste	-	-	-	-	-
HHW	-	-	-	-	-
White Goods	-	-	-	-	-
Lost or Gained Mass	**Combined Weight Following Sorting**			0.00	
	163.0				

Notes:

Performance Audit Record

Date 28-May-25

Name of Supervisor Maria MacHattie

Area 8

Number of Sorters 5

Weighscale Ticket Information

Truck Number/ID	ES4038
Collection Area	Eastern County
Date	22-May-25
Ticket Time	12:28:24
Gross Weight	20,840 KG
Tare Weight	16,130 KG
Net Weight	4,710 KG

Weigth of Gross Sample 148.0 KG

Weight of Tote Bin 48.0 KG

Date of Audit of Sample 28-May-25

Net Sample of Trash 100.0 KG

Sample Audit Time Started 2:15 PM

Number of Bulkies Observed 0

Sample Audit Time Completed 3:10 PM

Material	Empty Bin Weight (KG)	Total Separated Sample Weights (KG)		Net Sample (KG)	Compostables (%)
		1	2		
Garbage/Residue	48.0	138.0	-	90.0	90.00%
Fibre - Newsprint/Paper	1.1	6.0	-	4.9	4.90%
Fibre - OCC	1.1	1.9	-	0.8	0.80%
Food/Putrescible Waste	2.2	5.0	1.4	4.2	4.20%
Yard Waste	-	-	-	-	-
HHW	-	-	-	-	-
White Goods	-	-	-	-	-
Lost or Gained Mass	**Combined Weight Following Sorting**			0.00	
	148.0				

Notes:

Performance Audit Record

Date 28-May-25

Name of Supervisor **Maria MacHattie**

Area Condos

Number of Sorters 5

Weighscale Ticket Information

Truck Number/ID	RE1073
Collection Area	Dartmouth Condos
Date	23-May-25
Ticket Time	11:07:08
Gross Weight	22,390 KG
Tare Weight	18,630 KG
Net Weight	3,760 KG

Weigth of Gross Sample 125.0 KG

Weight of Tote Bin 50.5 KG

Date of Audit of Sample 28-May-25

Net Sample of Trash 74.5 KG

Sample Audit Time Started 3:10 PM

Number of Bulkies Observed 0

Sample Audit Time Completed 3:35 PM

Material	Empty Bin Weight (KG)	Total Separated Sample Weights (KG)		Net Sample (KG)	Compostables (%)
		1	2		
Garbage/Residue	50.5	112.0	-	61.5	82.55%
Fibre - Newsprint/Paper	2.2	6.5	1.4	5.7	7.65%
Fibre - OCC	-	-	-	-	-
Food/Putrescible Waste	1.1	7.9	-	6.8	9.13%
Yard Waste	1.1	1.3	-	0.2	0.27%
HHW	-	-	-	-	-
White Goods	-	-	-	-	-
Lost or Gained Mass	**Combined Weight Following Sorting**			0.00	
	125.0				

Notes:

ATTACHMENT 4
SUPPORTING DATA

Table 1: Total Compostable Waste Percentage Per Area (May 2025) *Project # 22-8641*

Waste Collection Area	% Organics From May 28, 2025 Waste Audit	Average Based On Previous Three Fiscal Years (Tonnes)	Estimated Annual Compostable Waste (Tonnes)
1	9.40%	9886.00	929.68
2	11.82%	6744.75	797.11
3	5.17%	4435.01	229.23
4	7.58%	5337.22	404.41
5	8.26%	8633.03	713.14
6	5.30%	5075.21	269.10
7	2.54%	2894.99	73.64
8	9.90%	3230.78	319.85
Condos	17.05%	2242.28	382.24
	TOTAL	**48479.27**	**4118.39**

Mean	8.56%	-	457.60
Min	2.54%	-	73.64
Max	17.05%	-	929.68

Compostable Waste Percentage	(4118.39/48479.27)*100% = 8.50%

Notes: % Organic for Area 5 is based on average of the two samples (5A and 5B) collected during the May 2025 waste audit.

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Table 2: Compostable Waste Descriptive Statistics *Project 22-8641*

Mean	457.5989855
Standard Error	96.17789825
Median	382.2410201
Mode	#N/A
Standard Deviation	288.5336947
Sample Variance	83251.693
Kurtosis	-0.964431911
Skewness	0.552798706
Range	856.0323387
Minimum	73.64448246
Maximum	929.6768212
Sum	4118.39087
Count	9
Confidence Level(95.0%)	221.7866311
Upper Confidence Interval	679.3856166
Lower Confidence Interval	235.8123544

Table 3: Total Food Waste Percentage Per Area (May 2025) *Project # 22-8641*

Waste Collection Area	% Food Waste From May 28, 2025 Waste Audit	Average Based On Previous Three Fiscal Years (Tonnes)	Estimated Annual Food Waste (Tonnes)
1	2.91%	9886.00	288.07
2	5.82%	6744.75	392.42
3	1.87%	4435.01	83.05
4	1.94%	5337.22	103.45
5	2.20%	8633.03	189.77
6	1.58%	5075.21	80.26
7	0.53%	2894.99	15.24
8	4.20%	3230.78	135.69
Condos	9.13%	2242.28	204.66
	TOTAL	**48479.27**	**1492.62**

Mean	3.35%	-	165.85
Min	0.53%	-	15.24
Max	9.13%	-	392.42

Food Waste Percentage	(1492.62/48479.27)*100% = 3.08%

Notes: % Food waste for Area 5 is based on average of the two samples (5A and 5B) collected during the May 2025 waste audit.

Table 4: Food Waste Descriptive Statistics *Project 22-8641*

Mean	165.8468509
Standard Error	39.09026421
Median	135.69276
Mode	#N/A
Standard Deviation	117.2707926
Sample Variance	13752.4388
Kurtosis	0.374618176
Skewness	0.861818555
Range	377.1850287
Minimum	15.23678947
Maximum	392.4218182
Sum	1492.621658
Count	9
Confidence Level(95.0%)	90.14231091
Upper Confidence Interval	255.9891619
Lower Confidence Interval	75.70454003