



Recycle More. Waste Less.

**Colchester North Public School**  
**2651 Country Road**  
**Essex, Ontario**  
**N8M 2X6**

## **2024 Waste Audit**

Prepared For:

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## Executive Summary

Greater Essex District School Board retained Waste Reduction Group (“WRG”) to conduct a solid, non-hazardous waste audit for the Colchester North Public School (Essex DHS) located at 2651 County Road in Essex, Ontario (the Site). The audit complied with the Environmental Protection Act, O.Reg. 102/94: Waste Audits and Waste Reduction Work Plans, and O.Reg. 103/94: Industrial, Commercial, and Institutional Source Separation Program.

The objectives of the audit were to determine the composition of the garbage, recycling, and organics streams by point of origin, quantify Essex DHS estimated 2024 annual waste generation, determine the waste diversion and capture rates, identify additional opportunities for waste reduction and diversion, and address any specific concerns identified during the study.

The scope of the waste audit included collecting two (2) samples of the Red Box stream, two (2) samples of the Blue Box stream and four (4) samples of the Garbage stream.

### Findings and Conclusions

*It should be noted that the conclusions and recommendations provided in this report are based on the waste audit sample results, which are considered representative of the annual quantities for this report. The estimates in this report have yet to account for fluctuations in waste quantities generated daily.*

The conclusions discussed below are based on the waste audit findings. It should be noted that the conclusions and recommendations provided in this report are based on the waste audit sample results, which are considered representative of the annual quantities for this report. The estimates in this report have yet to account for fluctuations in waste quantities generated daily.

#### *Sample Composition*

- The **garbage stream** sample had the highest sample mass (82.36%) followed by Red Box (15.41%) and Blue Box (2.23%).
- The **Red Box** sample consisted primarily of fine paper (1.98kg, 5.84% of total sample mass) and cardboard (2.02kg, 5.96% of total sample mass).
- The **Blue Box** sample consisted primarily of HDPE #2 plastic, PET #1 and aseptic containers.
- **Classrooms** - generated the highest sample mass (80.96% of total sample mass), which consisted primarily of organics (29.71% of total sample mass) fine paper (11.47% of total sample mass) and paper towels/compostable fibres (8.82% of total sample mass).

#### *Contamination*

- The contamination rates for the sampled streams were as follows: Garbage stream - 26.62%, Red Box stream - 14.26% and Blue Box stream - 12.58%.

- **The Red Box** sample consisted of 85.74% Red Box material, 7.46% Blue Box material and 6.79% Garbage material.
- Roughly 14% of the Red Box sample was contaminated with Blue Box material or garbage. **Red Box contamination** consisted primarily of the following materials:
  - Aseptic containers - 7.27%
  - Non-recyclables - 4.21%
  - Paper towels/compostable fibres - 2.3%
- The **Blue Box** sample consisted of 87.42% Blue Box material, 9.27% garbage material and 3.31% Red Box material.
- Roughly 12.6% of the Blue Box sample was contaminated with garbage or Red Box material. **Blue Box contamination** consisted of the following materials:
  - Non-recyclables - 3.97%
  - Trace amounts of coffee cups, beverage cups, fine paper, organics, paper towels/compostable fibres, polystyrene #6, and cardboard - 1.32% for each material
- The **garbage sample** consisted of 73.38% garbage material, 12.5% Blue Box material, 14% Red Box material, and 0.04% Electronics/special items.
- Roughly 27% of the garbage stream sample was contaminated with Blue Box material, Red Box material, and Electronics/special Items. **Garbage contamination** consisted primarily of the following materials:
  - Fine paper - 6.889%
  - PET #1 - 4.51%
  - Boxboard - 3.9%
  - Aseptic containers - 3.2%
  - PP #5 - 2.97%
  - Kraft paper/other fibres - 2.94%

#### *Recyclables in the Garbage Stream*

- The garbage sample consisted of 7.82% Mandatory Recyclables, 18.8% Other Recyclables, and 73.38% Other (Non-Recyclable) material.
- The **Mandatory Recyclables** in the garbage stream consisted of:
  - Fine paper - 6.88%
  - Glass - 0.57%
  - Cardboard - 0.32%
  - Aluminum - 0.05%
- The **Other Recyclables** in the garbage stream consisted primarily of:
  - PET #1 - 4.51%
  - Boxboard - 3.9%
  - Aseptic containers - 3.19%
  - PP#5 - 2.97%
  - Kraft paper/other fibres - 2.94%
- **Estimated Annual Quantities Generated** - 6.58 MT of material are expected to be generated annually of which 2.37 MT consists of organics.
- The **2024 waste diversion rate was calculated to be 17.64%** which is below the provincial objective of 60%.

- The overall **Capture Rate is 42.76%** based on a total diverted quantity of 1.16MT and a total potential divertible quantity of 2.52 MT.

### Recommendations

#### *Mandatory Recyclables*

- **Fine paper** — **0.37 MT** of material is estimated to be generated annually through the garbage stream. Diverting this through the Red Box stream could **increase the waste diversion rate up to 5.6%** and **could increase the Red Box capture rate up to 22.2%**.
- **Glass** — **0.03 MT** of material is estimated to be generated annually through the garbage stream. Diverting this material through the existing Blue Box stream could **increase the waste diversion rate up to 0.4%** and **could increase the Blue Box capture rate up to 4%**.
- **Cardboard** — **0.02 MT** of material is estimated to be generated annually through the garbage stream. Diverting this material through the existing Red Box stream could **increase the waste diversion rate up to 0.29%** and **could increase the Red Box capture rate up to 0.8%**.

#### *Red Box and Blue Box Streams*

- **PET #1** - **0.24 MT** of material is estimated to be generated annually through the garbage stream. Diverting this quantity through the existing Blue Box stream could **increase the waste diversion rate by up to 3.6%** and **could increase the Blue Box capture rate by up to 28%**.
- **Boxboard** - **0.21 MT** of material is estimated to be generated annually through the garbage stream. Diverting this quantity through the existing Red Box stream could **increase the waste diversion rate by up to 3.2%** and **could increase the Red Box capture rate by up to 12.4%**.
- **Aseptic containers** - **0.17 MT** of material is estimated to be generated annually through the garbage stream. Diverting this quantity through the existing Blue Box stream could **increase the waste diversion rate by up to 2.6%** and **could increase the Blue Box capture rate by up to 20%**.
- **PP#5 and kraft paper/other fibres** - **0.16 MT** of material is estimated to be generated annually through the garbage stream. Diverting this quantity through the existing streams could **increase the waste diversion rate by up to 2.4%**.

#### *New Organics Diversion Program*

Organics generated in the garbage stream accounted for 2.36 MT of material annually. Diverting this material through a new organics diversion program **could increase waste diversion by up to 35.9%**.

#### *Dedicated Receptacles and Update Signage*

Waste diversion rates could be improved by implementing dedicated receptacles with clear signage to encourage waste separation at the source. Provide dedicated receptacles with signage and pictograms as a clear message to staff and students to separate divertible materials from landfill waste at the source. Pictograms can provide

examples of the types of waste suitable for the waste collection stream. Divertible material should be consolidated into a centralized location and picked up by a dedicated contractor.

### Promoting Culture

A committee is recommended to oversee waste reduction and sustainability and promote a culture of waste diversion. Educate students and staff on the importance of waste diversion and communicate the corporate goals for waste diversion and sustainability. Create a positive message around the benefits of waste diversion and the individual's role.

- Support and encourage purchasing and using “environmentally friendly,” reusable or recyclable materials, packaging, and/or recycled content.
- Ensure an Environmental Policy is visible in common areas throughout the building and continue to emphasize the facility’s commitment to environmental stewardship through its training program and green or environmental initiatives.
- Encourage staff and students to prioritize bringing reusable containers, water bottles, and coffee cups.
- Promote and highlight current environmental programs and efforts through newsletters, posters, and/or bulletin boards for waste management.

### Continuous Monitoring and Process Improvement

Track year-over-year waste diversion change capture rates and communicate progress to staff and students to encourage further participation/engagement.

Continuous monitoring and reporting for this site annually and comparison with year-over-year changes would provide insight into trends, which can be used as a basis for policy decisions regarding solid waste management for future projects. Further refinements to programs/processes can be made, and adherence to provincial requirements can be achieved.

## 1. Introduction

Greater Essex District School Board retained Waste Reduction Group (“WRG”) to conduct a solid, non-hazardous waste audit for the Colchester North Public School located at 2651 County Road in Essex, Ontario (the Site). The audit complied with the Environmental Protection Act, O.Reg. 102/94: Waste Audits and Waste Reduction Work Plans, and O.Reg. 103/94: Industrial, Commercial, and Institutional Source Separation Program.

### 1.1 Purpose and Objectives

The purpose of the waste audit was to comply with Ontario Regulation 102/94 – Waste Audits and Waste Reduction Work Plans Part XI, which requires educational institutions to conduct a waste audit covering the waste generated by the establishment operating at the site and prepare and implement a waste reduction work plan on an annual basis to confirm compliance with Ontario Regulation 103/94 – IC&I Source Separation Programs.

The objectives are as follows:

- Determine the composition of the Red Box, Blue Box and Garbage streams by point of origin,
- Quantify the estimated 2024 annual waste generation for all waste streams based on audit data and the number of days in the school year,
- Determine the waste diversion and capture rates,
- Identify additional opportunities for waste reduction and diversion; and
- Address any specific concerns identified during the study.

The Site is considered to apply to O.Reg. 103./94 – Educational Institutions.

## 2. Scope of Work

To meet the objectives outlined above, the following activities were undertaken by WRG:

- Collected two (2) samples of the Red Box stream, two (2) samples of the Blue Box stream and four (4) samples of the Garbage stream.
- Sorted samples into predetermined categories as set out by WRG (detailed in Appendix A: List of Categories)
- Determined the total quantity of waste diverted from landfill through current reduction, reuse, and recycling programs implemented at the school. Quantities were calculated using sample mass multiplied by the number of school days per year;
- Completed a waste audit report summarizing the audit findings and provided recommendations for increased waste diversion efficiency.
- Conducted a site tour accompanied by Essex personnel and interviewed staff to obtain information on existing waste diversion practices.

### 3. Sampling Methodology

On November 15<sup>th</sup>, 2024, WRG collected two (2) samples of the Red Box stream, two (2) samples of the Blue Box stream and four (4) samples of the Garbage stream. The samples were collected from the following functional areas.

Table 1: Sample Summary

Functional Area	Blue Box	Garbage	Red Box	Total
Classroom	1	1	1	3
Gym		1		1
Office	1	1	1	3
Washrooms		1		1
<b>Total</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>8</b>

Qualified WRG staff sorted the materials using containers to keep them separate. Waste was sorted into individual material categories and weighed using a calibrated scale (Appendix B: Scale Calibration Certificate). It was then re-bagged and disposed of in an appropriate waste container.

### 4. Waste Audit Findings

A total of 33.91 kg of sample materials was collected for the waste audit. The following sections summarize the site tour findings and analyze the sample composition.

#### 4.1 Site Tour

During the tour of the Site, the following observations were made by WRG representatives:

- The Site implements garbage, Blue Box, and Red Box streams and collects specialty materials, including hazardous waste and medical equipment.
- Dedicated bins were available for each stream
- Signage was observed to be limited.

An analysis of the sample composition is provided in the following sections.

#### 4.2 Sample Composition by Sampled Stream

Based on the audit findings, the garbage stream sample had the highest sample mass (82.36%) followed by Red Box (15.41%) and Blue Box (2.23%). The figure below shows the sample composition by material and sampled stream.



*Table 2: Sample Composition by Sampled Stream and Material  
(in kg and % of total sample by mass)*

Sampled Stream Material	Red Box		Blue Box		Garbage		Total	
	kg	%	kg	%	kg	%	kg	%
Organics	0.01	0.01%	0.01	0.03%	12.18	35.92%	12.20	35.97%
Paper Towels/Compostable Fibres	0.12	0.35%	0.01	0.03%	3.90	11.50%	4.03	11.89%
Fine Paper	1.98	5.84%	0.01	0.03%	1.92	5.66%	3.91	11.53%
Non-Recyclables	0.22	0.65%	0.03	0.09%	2.27	6.69%	2.52	7.43%
Cardboard	2.02	5.96%	0.01	0.01%	0.09	0.27%	2.12	6.24%
PET #1	0.01	0.03%	0.25	0.74%	1.26	3.72%	1.52	4.48%
Aseptic Containers	0.38	1.12%	0.16	0.47%	0.89	2.62%	1.43	4.22%
Boxboard	0.34	1.00%	0.00	0.00%	1.09	3.21%	1.43	4.22%
LDPE (#4) Plastic Films	0.01	0.03%	0.00	0.00%	1.06	3.13%	1.07	3.16%
Kraft Paper/Other Fibres	0.11	0.32%	0.00	0.00%	0.82	2.42%	0.93	2.74%
PP #5	0.00	0.00%	0.01	0.03%	0.83	2.45%	0.84	2.48%
Scrap Metal	0.00	0.00%	0.00	0.00%	0.50	1.47%	0.50	1.47%
HDPE Plastic Containers #2	0.00	0.00%	0.20	0.59%	0.13	0.38%	0.33	0.97%
Polystyrene #6	0.00	0.00%	0.01	0.03%	0.25	0.74%	0.26	0.77%
Diapers	0.00	0.00%	0.00	0.00%	0.24	0.71%	0.24	0.71%
Glass	0.00	0.00%	0.00	0.00%	0.16	0.47%	0.16	0.47%
Other Plastics #7	0.00	0.00%	0.01	0.03%	0.11	0.31%	0.12	0.34%
Gable Top Containers	0.00	0.00%	0.00	0.00%	0.10	0.29%	0.10	0.29%
PPE	0.00	0.00%	0.00	0.00%	0.05	0.15%	0.05	0.15%
Cold Beverage Wax-Lined Paper Cups	0.00	0.00%	0.01	0.03%	0.02	0.06%	0.03	0.09%
Aluminum	0.00	0.00%	0.01	0.03%	0.02	0.04%	0.03	0.07%
Coffee Cups	0.01	0.03%	0.01	0.03%	0.01	0.01%	0.03	0.07%
Steel Cans	0.00	0.00%	0.02	0.06%	0.00	0.00%	0.02	0.06%
Electronic Waste	0.00	0.00%	0.00	0.00%	0.01	0.03%	0.01	0.03%
Moulded Pulp	0.01	0.03%	0.00	0.00%	0.00	0.00%	0.01	0.03%
Newspaper	0.01	0.03%	0.00	0.00%	0.00	0.00%	0.01	0.03%
Styrofoam	0.00	0.00%	0.00	0.00%	0.01	0.03%	0.01	0.03%
Textiles	0.00	0.00%	0.00	0.00%	0.01	0.03%	0.01	0.03%
Bubble Wrap/Shrink Wrap	0.00	0.00%	0.00	0.00%	0.01	0.02%	0.01	0.02%
Scrap Wood	0.00	0.00%	0.00	0.00%	0.01	0.01%	0.01	0.01%
Batteries	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%
Composite Cans	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%
Lightbulbs	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%
Plastic Strapping	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%
Printer Toners	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>5.23</b>	<b>15.41%</b>	<b>0.76</b>	<b>2.23%</b>	<b>27.93</b>	<b>82.36%</b>	<b>33.91</b>	<b>100.00%</b>

Notable observations are described below:

- **Garbage Stream** - organics in the garbage stream had the greatest overall sample mass (35.92% of total sample mass), followed by paper towels/compostable fibres (11.50% of total sample mass) and fine paper (5.66%).
- **Red Box** - consisted primarily of fine paper (1.98kg, 5.84% of total sample mass) and cardboard (2.02kg, 5.96% of total sample mass).
- **Blue Box** - consisted primarily of HDPE #2 plastic, PET #1 and aseptic containers

### 4.3 Sample Composition by Functional Area

The classrooms generated the highest sample mass (80.96%) which consisted primarily of organics, fine paper, and paper towels/compostable fibres. The figure below shows the sample composition by material and functional area.

*Table 3: Sample Composition by Functional Area and Material  
(in kg and % of total sample by mass)*

Functional Area Material	Classroom		Gym		Office		Washrooms		Total	
	kg	%	kg	%	kg	%	kg	%	kg	%
Organics	10.08	29.71%	0.94	2.77%	1.18	3.48%	0.00	0.00%	12.20	35.97%
Paper Towels/Compostable Fibres	2.99	8.82%	0.00	0.00%	0.50	1.47%	0.54	1.59%	4.03	11.89%
Fine Paper	3.89	11.47%	0.01	0.03%	0.01	0.03%	0.00	0.00%	3.91	11.53%
Non-Recyclables	1.98	5.84%	0.01	0.03%	0.38	1.12%	0.15	0.44%	2.52	7.43%
Cardboard	2.11	6.21%	0.00	0.00%	0.01	0.03%	0.00	0.00%	2.12	6.24%
PET #1	1.37	4.04%	0.00	0.00%	0.15	0.44%	0.00	0.00%	1.52	4.48%
Aseptic Containers	1.04	3.07%	0.00	0.00%	0.39	1.15%	0.00	0.00%	1.43	4.22%
Boxboard	0.45	1.33%	0.00	0.00%	0.98	2.89%	0.00	0.00%	1.43	4.22%
LDPE (#4) Plastic Films	1.05	3.10%	0.01	0.03%	0.00	0.00%	0.01	0.03%	1.07	3.16%
Kraft Paper/Other Fibres	0.90	2.65%	0.00	0.00%	0.02	0.06%	0.01	0.03%	0.93	2.74%
PP #5	0.69	2.03%	0.01	0.03%	0.14	0.41%	0.00	0.00%	0.84	2.48%
Scrap Metal	0.00	0.00%	0.00	0.00%	0.50	1.47%	0.00	0.00%	0.50	1.47%
HDPE Plastic Containers #2	0.32	0.94%	0.01	0.03%	0.00	0.00%	0.00	0.00%	0.33	0.97%
Polystyrene #6	0.25	0.74%	0.00	0.00%	0.01	0.03%	0.00	0.00%	0.26	0.77%
Diapers	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.24	0.71%	0.24	0.71%
Glass	0.00	0.00%	0.00	0.00%	0.16	0.47%	0.00	0.00%	0.16	0.47%
Other Plastics #7	0.11	0.32%	0.00	0.00%	0.01	0.01%	0.00	0.00%	0.12	0.34%
Gable Top Containers	0.09	0.27%	0.00	0.00%	0.01	0.03%	0.00	0.00%	0.10	0.29%
PPE	0.04	0.12%	0.00	0.00%	0.00	0.00%	0.01	0.03%	0.05	0.15%
Cold Beverage Wax-Lined Paper Cups	0.03	0.09%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.03	0.09%
Aluminum	0.01	0.03%	0.01	0.01%	0.01	0.03%	0.00	0.00%	0.03	0.07%
Coffee Cups	0.03	0.07%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.03	0.07%
Steel Cans	0.00	0.00%	0.00	0.00%	0.02	0.06%	0.00	0.00%	0.02	0.06%
Electronic Waste	0.01	0.03%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.03%
Moulded Pulp	0.01	0.03%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.03%
Newspaper	0.00	0.00%	0.00	0.00%	0.01	0.03%	0.00	0.00%	0.01	0.03%
Styrofoam	0.01	0.03%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.03%
Textiles	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.03%	0.01	0.03%
Bubble Wrap/Shrink Wrap	0.01	0.02%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.02%
Scrap Wood	0.00	0.00%	0.00	0.00%	0.01	0.01%	0.00	0.00%	0.01	0.01%
Batteries	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%
Composite Cans	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%
Lightbulbs	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%
Plastic Strapping	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%
Printer Toners	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%
<b>Total</b>	<b>27.45</b>	<b>80.96%</b>	<b>1.00</b>	<b>2.93%</b>	<b>4.49</b>	<b>13.24%</b>	<b>0.97</b>	<b>2.86%</b>	<b>33.91</b>	<b>100.00%</b>

Notable observations are described below:

- **Classrooms** - generated the highest sample mass (80.96% of total sample mass), which consisted primarily of organics (29.71% of total sample mass) fine paper (11.47% of total sample mass) and paper towels/compostable fibres (8.82% of total sample mass).

### 4.3 Sample Composition

The contamination rates for the sampled streams were as follows: Garbage stream - 26.62%, Red Box stream - 14.26% and Blue Box stream - 12.58%. The figures below show the contamination rate by the sampled stream and functional area.

Figure 1a: Contamination Rate by Sampled Stream

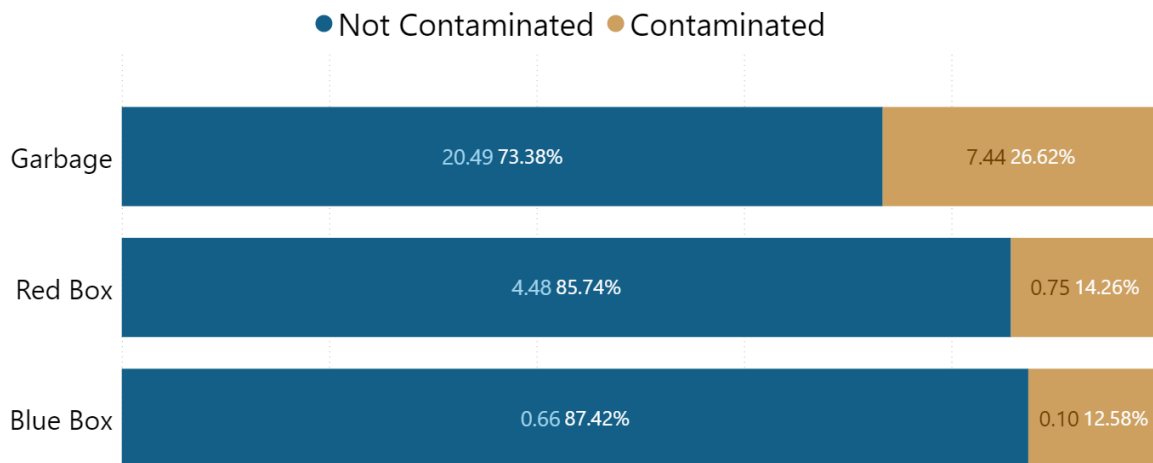
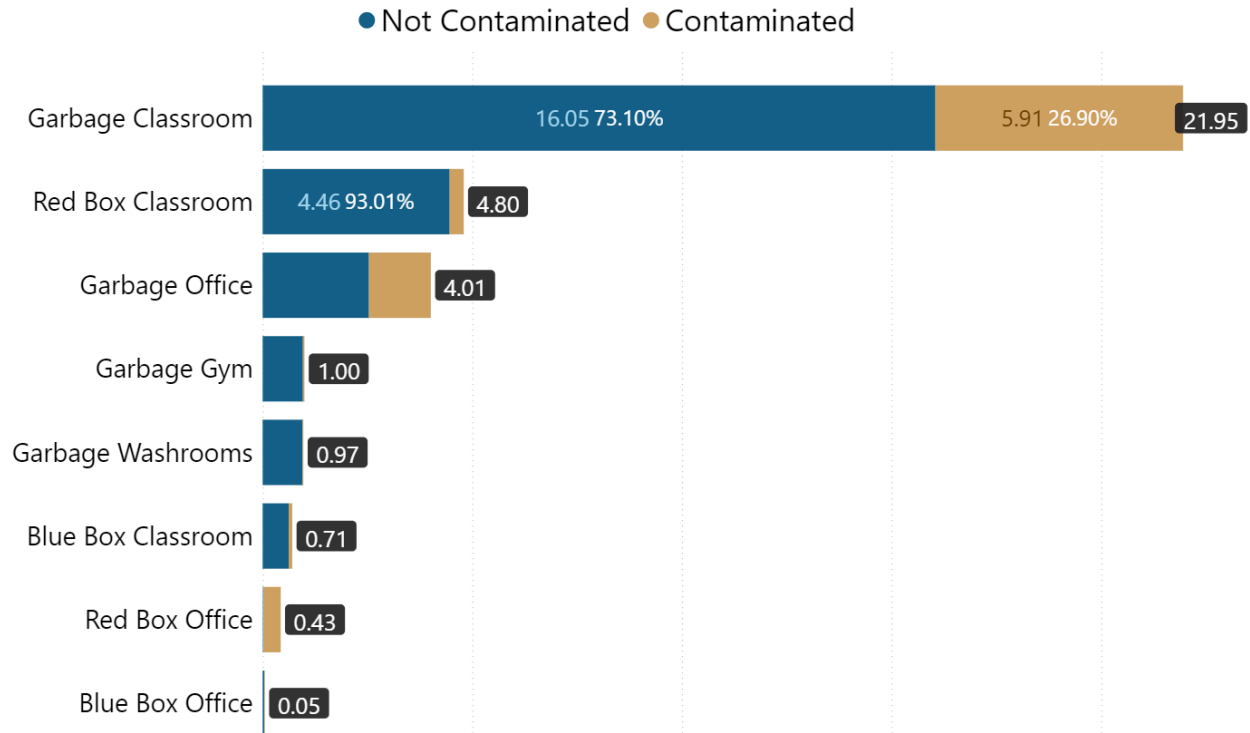


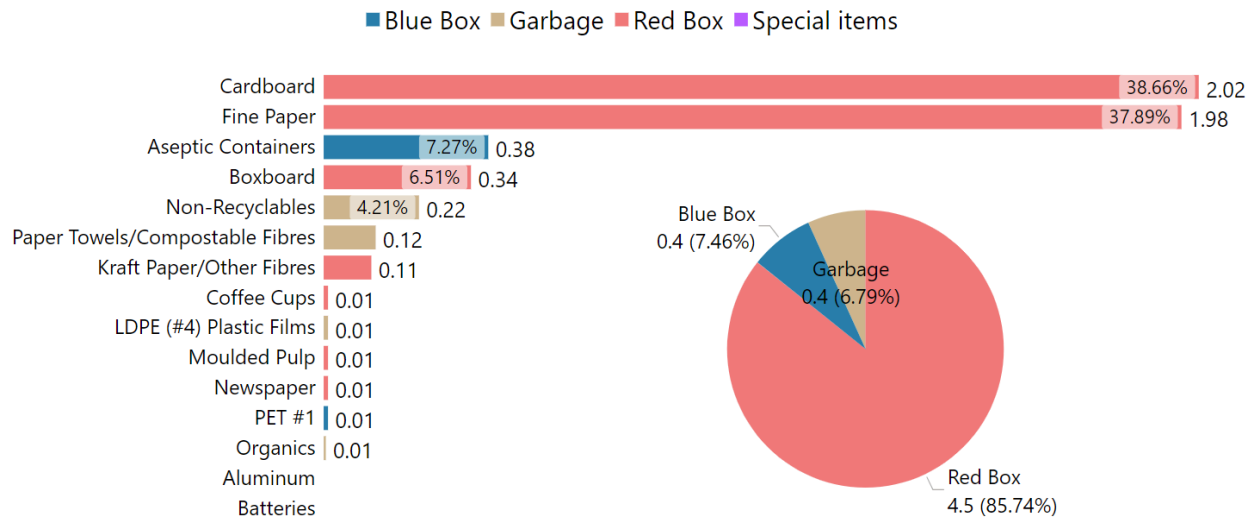
Figure 2a: Contamination Rate by Sampled Stream and Functional Area  
(kg and % of sample stream)



### 4.3.1 Red Box Sample Composition and Contamination

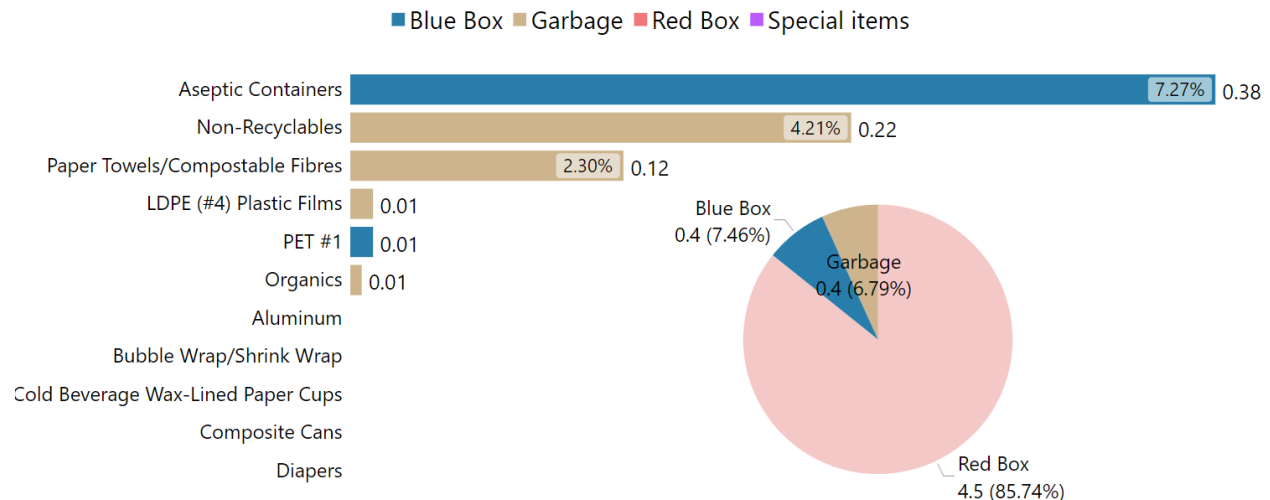
The Red Box sample consisted of 85.74% Red Box material, 7.46% Blue Box material and 6.79% Garbage material. The sample composition is shown in the figure below.

**Figure 2a: Red Box Sample Composition**  
(kg and % of sample stream)



Roughly 14% of the Red Box sample was contaminated with Blue Box material or garbage. The breakdown of contamination is shown in the figure below.

**Figure 2b: Red Box Sample Contamination**  
(kg and % of sample stream)



**Notable Observations**

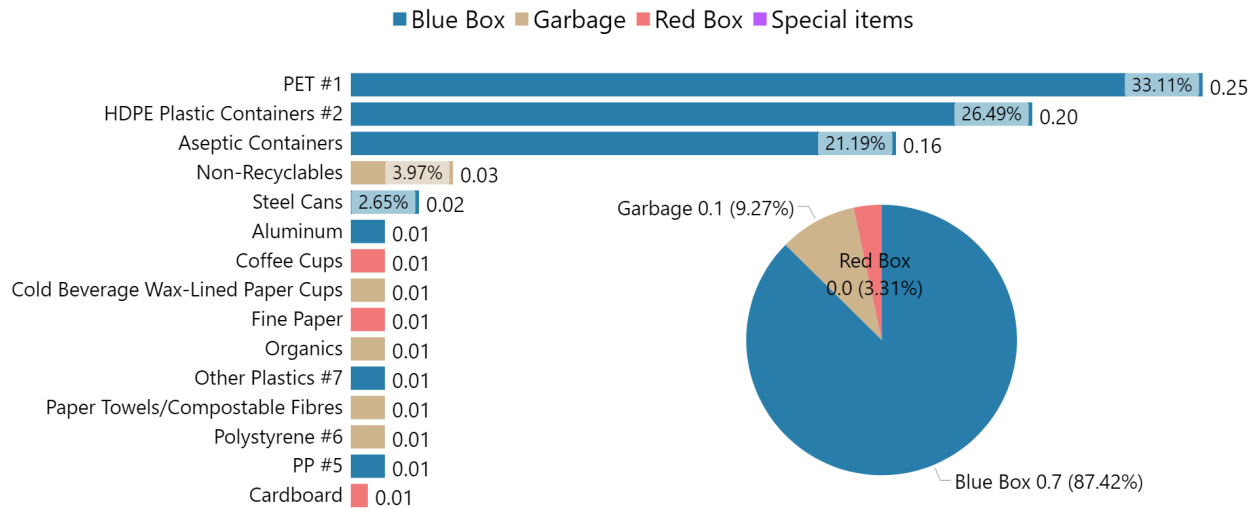
- The Red Box sample consisted of 85.74% Red Box material, 7.46% Blue Box material and 6.79% Garbage material.
- 38.66% of the Red Box sample consisted of cardboard, and 37.89% of the Red Box sample consisted of fine paper.

- Roughly 14% of the Red Box sample was contaminated with Blue Box material or garbage. Contamination in the Red Box stream consisted primarily of the following materials:
  - Aseptic containers - 7.27%
  - Non-recyclables - 4.21%
  - Paper towels/compostable fibres - 2.3%

### 4.3.2 Blue Box Sample Composition and Contamination

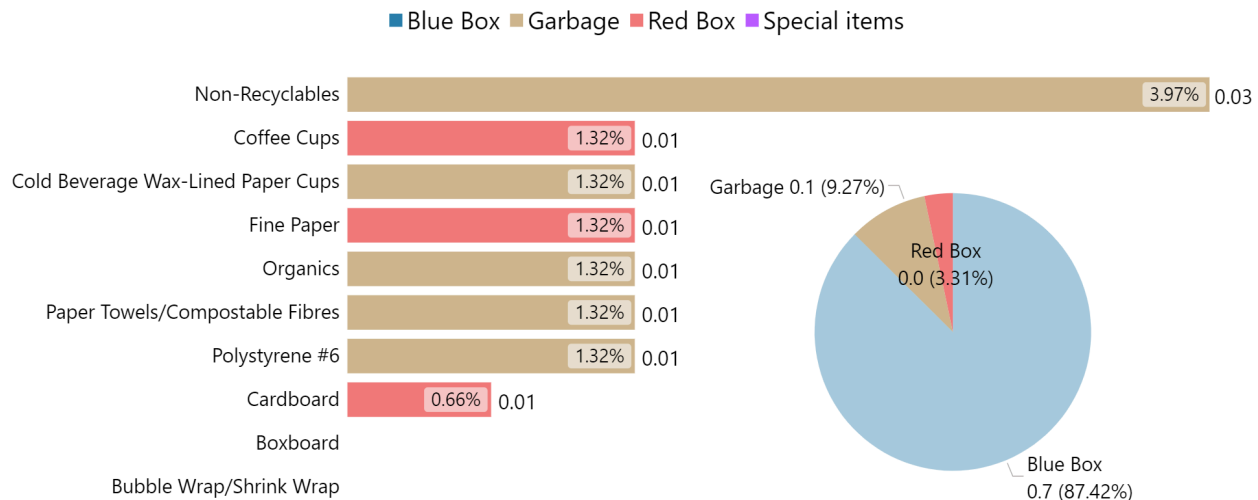
The Blue Box sample consisted of 87.42% Blue Box material, 9.27% garbage material and 3.31% Red Box material. The sample composition is shown in the figure below.

*Figure 3a: Blue Box Sample Composition  
(kg and % of sample stream)*



Roughly 12.6% of the Blue Box sample was contaminated with Red Box material or garbage. The breakdown of contamination is shown in the figure below.

**Figure 3b: Blue Box Sample Contamination  
(kg and % of sample stream)**



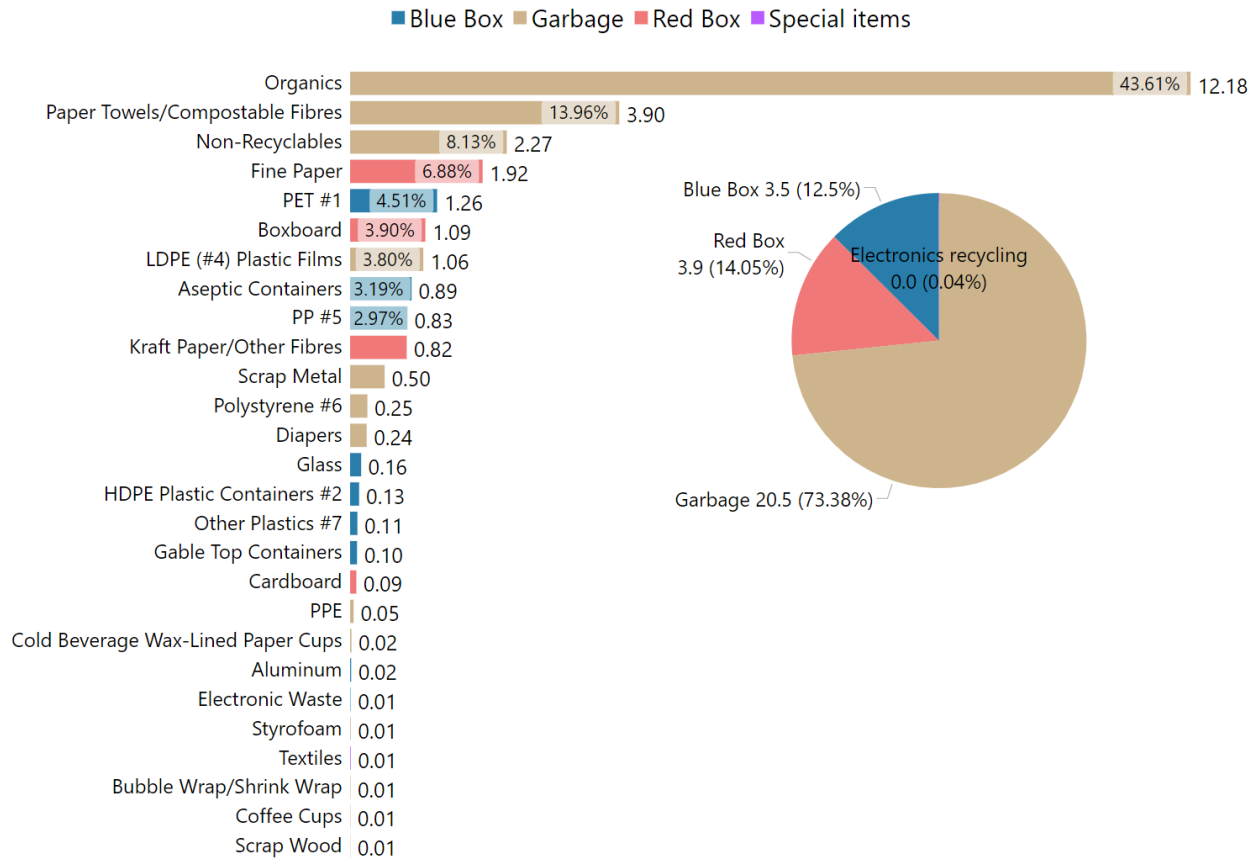
### Notable Observations

- The Blue Box sample consisted of 87.42% Blue Box material, 9.27% garbage material and 3.31% Red Box material.
- 33.11% of the Blue Box sample consisted of PET #1, 26.49% consisted of HDPE #2 plastic, and 21.19% consisted of aseptic containers.
- Roughly 12.6% of the Blue Box sample was contaminated with garbage or Red Box material. Contamination in the Blue Box stream consisted of the following materials:
  - Non-recyclables - 3.97%
  - Trace amounts of coffee cups, beverage cups, fine paper, organics, paper towels/compostable fibres, polystyrene #6, and cardboard - 1.32% for each material

### **4.3.3 Garbage Sample Composition and Contamination**

The garbage sample consisted of 73.38% garbage material, 12.5% Blue Box material, 14% Red Box material, and 0.04% Electronics/special items. The sample composition is shown in the figure below.

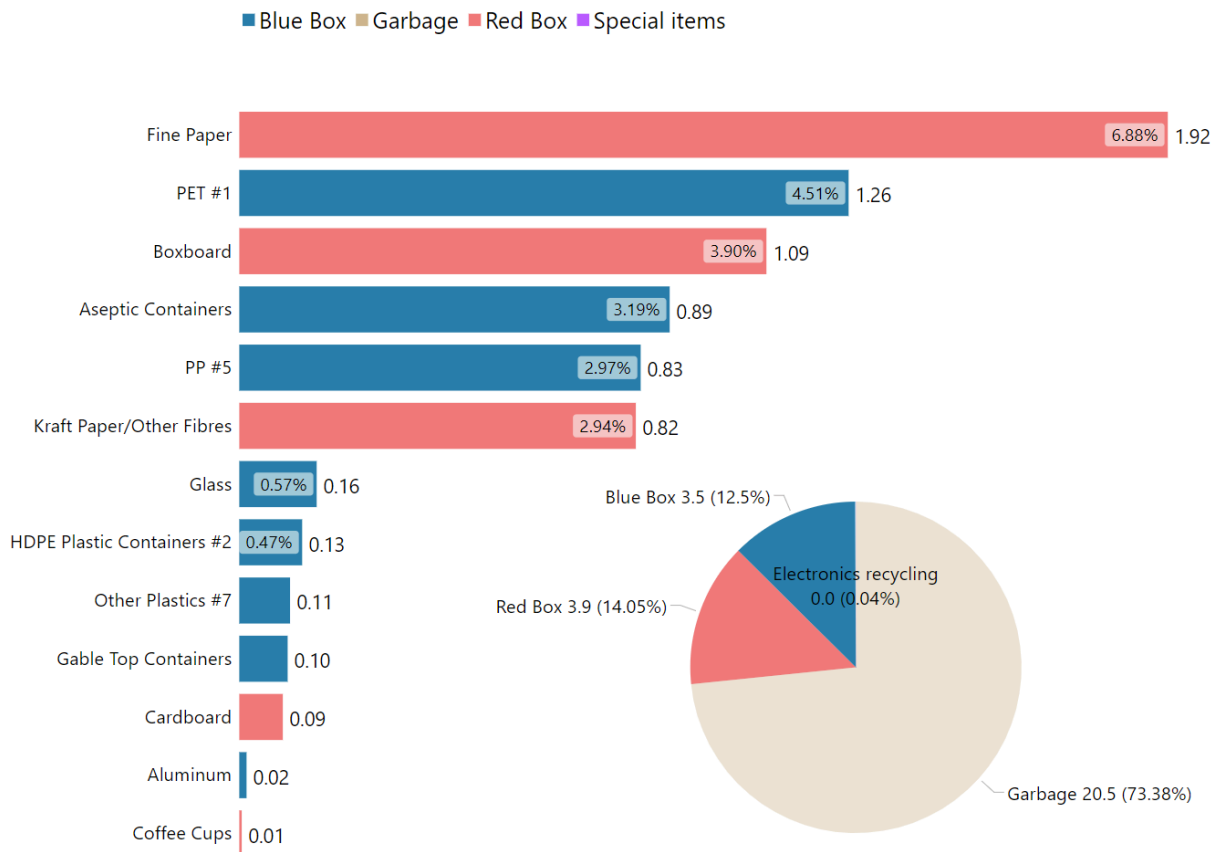
**Figure 4a: Garbage Sample Composition  
(kg and % of sample stream)**



Roughly 27% of the garbage stream sample was contaminated with Blue Box material, Red Box material, and Electronics/special Items. A breakdown of the contamination is shown in the figure below.



Figure 4b: Garbage Sample Contamination  
(kg and % of sample stream)



### Notable Observations

- The garbage sample consisted of 73.38% garbage material, 12.5% Blue Box material, 14% Red Box material, and 0.04% Electronics/special items.
- 43.61% of the garbage sample consisted of organics, 13.96% consisted of paper towels/compostable fibres, 8.13% consisted of non-recyclables, 6.88% consisted of fine paper, and 4.51% consisted of PET #1.
- Roughly 27% of the garbage stream sample was contaminated with Blue Box material, Red Box material, and Electronics/special Items. Contamination in the garbage stream consisted primarily of the following materials:
  - Fine paper - 6.889%
  - PET #1 - 4.51%
  - Boxboard - 3.9%
  - Aseptic containers - 3.2%
  - PP #5 - 2.97%
  - Kraft paper/other fibres - 2.94%

## 4.4 Recyclables in the Garbage Stream

Based on the waste sample composition analysis for the garbage and organics streams, Mandatory Recyclables and Other Recyclables were identified in the garbage stream. The garbage sample consisted of 7.82% Mandatory Recyclables, 18.8% Other Recyclables, and 73.38% Other (Non-Recyclable) material.

A description of the recyclable materials subject to O.Reg. 103/94 is provided below.

### Mandatory Recyclables

O.Reg.193/04 requires that hospitals source separate the following materials (at a minimum):

- Aluminum food and beverage cans
- Cardboard (corrugated)
- Fine paper
- Glass food and beverage bottles/jars
- Newsprint
- Steel food and beverage cans

### Other Recyclables

This includes any material eligible for recycling or that can be diverted from landfills. Other Recyclables include the following materials:

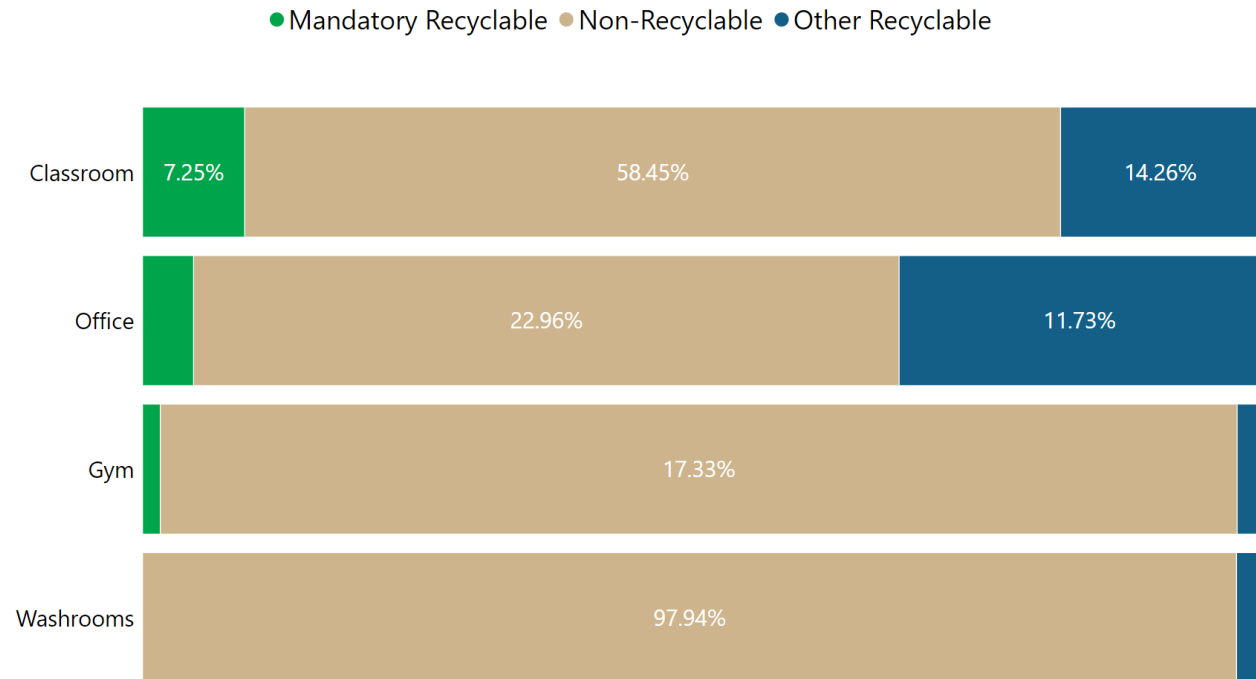
- Aseptic containers
- Batteries
- Boxboard
- Coffee Cups
- Composite Cans
- Electronics Waste
- Gable top containers
- HDPE #2 plastic containers
- Kraft paper/other fibres
- Lightbulbs
- Molded pulp
- Other plastics #7
- PET #1
- PP #5
- Printer toner/cartridges
- Scrap wood
- Scrap metal
- Textiles

### Other (Non-Recyclables)

Includes all other non-recyclable materials.

Below is an analysis of the garbage sample composition by material and material type (Mandatory Recyclables, Other Recyclables, and Non-Recyclables).

Figure 5: Ratio of Recyclables in Garbage Stream by Type of Recyclable Organized by Functional Area



The breakdown of recyclables in the garbage stream by material is shown in the figures below.

Table 4: Breakdown of Mandatory Recyclables in Garbage Sample by Material (in kg and % of garbage sample mass)

Sampled Stream O.Reg 103/94 Type	Garbage	
	kg	%
<b>Mandatory Recyclable</b>	<b>2.19</b>	<b>7.82%</b>
Fine Paper	1.92	6.88%
Glass	0.16	0.57%
Cardboard	0.09	0.32%
Aluminum	0.02	0.05%
<b>Total</b>	<b>2.19</b>	<b>7.82%</b>

*Table 5: Breakdown of Other Recyclables in Garbage Sample by Material  
(in kg and % of garbage sample mass)*

Sampled Stream O.Reg 103/94 Type	Garbage	
	kg	%
<b>Other Recyclable</b>	<b>5.25</b>	<b>18.80%</b>
PET #1	1.26	4.51%
Boxboard	1.09	3.90%
Aseptic Containers	0.89	3.19%
PP #5	0.83	2.97%
Kraft Paper/Other Fibres	0.82	2.94%
HDPE Plastic Containers #2	0.13	0.47%
Other Plastics #7	0.11	0.38%
Gable Top Containers	0.10	0.36%
Electronic Waste	0.01	0.04%
Textiles	0.01	0.04%
Coffee Cups	0.01	0.02%
<b>Total</b>	<b>5.25</b>	<b>18.80%</b>

Notable observations are discussed below:

- The garbage sample consisted of 7.82% Mandatory Recyclables, 18.8% Other Recyclables, and 73.38% Other (Non-Recyclable) material.
- The Mandatory Recyclables in the garbage stream consisted of:
  - Fine paper - 6.88%
  - Glass - 0.57%
  - Cardboard - 0.32%
  - Aluminum - 0.05%
- The Other Recyclables in the garbage stream consisted primarily of:
  - PET #1 - 4.51%
  - Boxboard - 3.9%
  - Aseptic containers - 3.19%
  - PP#5 - 2.97%
  - Kraft paper/other fibres - 2.94%

## 4.5 Estimated Annual Quantities Generated

The annual quantity was calculated using the following equation, based on 194 days in the school year and the sample mass generated over a one-day sampling period.

$$\text{Estimated Annual Quantity} = \text{Number of days in school year} \times \text{sample mass}$$

Each material's estimated annual quantities were calculated and provided in the table below.

Table 6: Estimated Annual Quantities by Material

Divertible Material	Diverted Through Red Box Program (MT)	Diverted Through Blue Box Program (MT)	Landfill Quantity (MT)	Total Generated (MT)	%
<b>Colchester North Public School</b>	<b>1.01</b>	<b>0.15</b>	<b>5.42</b>	<b>6.58</b>	<b>100.00%</b>
Organics	0.00	0.00	2.36	2.37	35.97%
Paper Towels/Compostable Fibres	0.02	0.00	0.76	0.78	11.89%
Fine Paper	0.38	0.00	0.37	0.76	11.53%
Non-Recyclables	0.04	0.01	0.44	0.49	7.43%
Cardboard	0.39	0.00	0.02	0.41	6.24%
PET #1	0.00	0.05	0.24	0.29	4.48%
Aseptic Containers	0.07	0.03	0.17	0.28	4.22%
Boxboard	0.07	0.00	0.21	0.28	4.22%
LDPE (#4) Plastic Films	0.00	0.00	0.21	0.21	3.16%
Kraft Paper/Other Fibres	0.02	0.00	0.16	0.18	2.74%
PP #5	0.00	0.00	0.16	0.16	2.48%
Scrap Metal	0.00	0.00	0.10	0.10	1.47%
HDPE Plastic Containers #2	0.00	0.04	0.03	0.06	0.97%
Polystyrene #6	0.00	0.00	0.05	0.05	0.77%
Diapers	0.00	0.00	0.05	0.05	0.71%
Glass	0.00	0.00	0.03	0.03	0.47%
Other Plastics #7	0.00	0.00	0.02	0.02	0.34%
Gable Top Containers	0.00	0.00	0.02	0.02	0.29%
PPE	0.00	0.00	0.01	0.01	0.15%
Cold Beverage Wax-Lined Paper Cups	0.00	0.00	0.00	0.01	0.09%
Aluminum	0.00	0.00	0.00	0.00	0.07%
Coffee Cups	0.00	0.00	0.00	0.00	0.07%
Steel Cans	0.00	0.00	0.00	0.00	0.06%
Electronic Waste	0.00	0.00	0.00	0.00	0.03%
Moulded Pulp	0.00	0.00	0.00	0.00	0.03%
Newspaper	0.00	0.00	0.00	0.00	0.03%
Styrofoam	0.00	0.00	0.00	0.00	0.03%
Textiles	0.00	0.00	0.00	0.00	0.03%
Bubble Wrap/Shrink Wrap	0.00	0.00	0.00	0.00	0.02%
Scrap Wood	0.00	0.00	0.00	0.00	0.01%
<b>Total</b>	<b>1.01</b>	<b>0.15</b>	<b>5.42</b>	<b>6.58</b>	<b>100.00%</b>

Notable Observations are discussed below:

- 6.58 MT of material are expected to be generated annually of which 2.37 MT consists of organics.

## 5.0 Performance Metrics

### 5.1 Waste Diversion Rate

Waste diversion is the percentage of waste materials a facility diverts from landfills due to reducing, reuse and recycling (3Rs) programs versus the total amount of waste generated (3Rs plus landfill waste). The Ministry of the Environment, Conservation and Parks defines the Waste Diversion rate calculation as follows:

$$\text{Waste Diversion Rate} = \frac{\text{Total Waste Diverted (3Rs)}}{\text{Total Waste Generated}} \times 100$$

*Table 7: Waste Diversion Rate*

Year	Garbage Annual Quantity (MT)	Red Box Annual Quantity (MT)	Blue Box Annual Quantity (MT)	Total Diverted (MT)	Total Generated (MT)	Waste Diversion Rate
<b>2024</b>						
Colchester North Public School	5.42	1.01	0.15	1.16	6.58	17.64%

The 2024 waste diversion rate was calculated to be 17.64% which is below the provincial objective of 60%.

### 5.2 Capture Rate

The capture rate is the proportion of divertible waste materials successfully diverted from disposal compared to the total amount of divertible waste materials generated. It measures the effectiveness of existing recycling programs.

The Recycling Council of Ontario defines the Capture Rate calculation as follows:

$$\text{Capture Rate} = \frac{\text{Total Divertible Material Captured (3Rs)}}{\text{Total Divertible Material Generated}} \times 100$$

Below are the capture rates for all divertible materials included in existing waste diversion programs at the Site.

Table 8: Capture Rates for Diversion Programs

Divertible Material	Landfill Quantity (MT)	Diverted Through Red Box Program (MT)	Diverted Through Blue Box Program (MT)	Total Generated (MT)	Capture Rate
<b>Colchester North Public School</b>					
Red Box	0.76	0.87	0.00	1.64	53.44%
Blue Box	0.68	0.08	0.13	0.88	23.13%
Electronics recycling	0.00	0.00	0.00	0.00	0.00%
Special items	0.00	0.00	0.00	0.00	0.00%
<b>Total</b>	<b>1.44</b>	<b>0.94</b>	<b>0.13</b>	<b>2.52</b>	<b>42.76%</b>

The overall **Capture Rate is 42.76%** based on a total diverted quantity of 1.16MT and a total potential divertible quantity of 2.52 MT.

## 6.0 Waste Audit Summary and Waste Reduction Work Plan

Refer to Appendix F for the Waste Audit Summary and the Waste Reduction Work Plan.

**According to O.Reg.102/94, the Waste Reduction Work Plan or a plan summary must be posted at the facility where employees can review it. If a summary is posted, the entire Work Plan should also be made available for review by any employee upon request.**

## 7.0 Findings and Conclusions

The conclusions discussed below are based on the waste audit findings. It should be noted that the conclusions and recommendations provided in this report are based on the waste audit sample results, which are considered representative of the annual quantities for this report. The estimates in this report have yet to account for fluctuations in waste quantities generated daily.

### Sample Composition

- The **garbage stream** sample had the highest sample mass (82.36%) followed by Red Box (15.41%) and Blue Box (2.23%).
- The **Red Box** sample consisted primarily of fine paper (1.98kg, 5.84% of total sample mass) and cardboard (2.02kg, 5.96% of total sample mass).
- The **Blue Box** sample consisted primarily of HDPE #2 plastic, PET #1 and aseptic containers.
- **Classrooms** - generated the highest sample mass (80.96% of total sample mass), which consisted primarily of organics (29.71% of total sample mass) fine paper (11.47% of total sample mass) and paper towels/compostable fibres (8.82% of total sample mass).

### Contamination

- The contamination rates for the sampled streams were as follows: Garbage stream - 26.62%, Red Box stream - 14.26% and Blue Box stream - 12.58%.
- **The Red Box** sample consisted of 85.74% Red Box material, 7.46% Blue Box material and 6.79% Garbage material.
- Roughly 14% of the Red Box sample was contaminated with Blue Box material or garbage. **Red Box contamination** consisted primarily of the following materials:
  - Aseptic containers - 7.27%
  - Non-recyclables - 4.21%
  - Paper towels/compostable fibres - 2.3%
- The **Blue Box** sample consisted of 87.42% Blue Box material, 9.27% garbage material and 3.31% Red Box material.
- Roughly 12.6% of the Blue Box sample was contaminated with garbage or Red Box material. **Blue Box contamination** consisted of the following materials:
  - Non-recyclables - 3.97%
  - Trace amounts of coffee cups, beverage cups, fine paper, organics, paper towels/compostable fibres, polystyrene #6, and cardboard - 1.32% for each material
- The **garbage sample** consisted of 73.38% garbage material, 12.5% Blue Box material, 14% Red Box material, and 0.04% Electronics/special items.
- Roughly 27% of the garbage stream sample was contaminated with Blue Box material, Red Box material, and Electronics/Special Items. **Garbage contamination** consisted primarily of the following materials:
  - Fine paper - 6.889%
  - PET #1 - 4.51%
  - Boxboard - 3.9%
  - Aseptic containers - 3.2%
  - PP #5 - 2.97%
  - Kraft paper/other fibres - 2.94%

### Recyclables in the Garbage Stream

- The garbage sample consisted of 7.82% Mandatory Recyclables, 18.8% Other Recyclables, and 73.38% Other (Non-Recyclable) material.
- The **Mandatory Recyclables** in the garbage stream consisted of:
  - Fine paper - 6.88%
  - Glass - 0.57%
  - Cardboard - 0.32%
  - Aluminum - 0.05%
- The **Other Recyclables** in the garbage stream consisted primarily of:
  - PET #1 - 4.51%
  - Boxboard - 3.9%
  - Aseptic containers - 3.19%
  - PP#5 - 2.97%
  - Kraft paper/other fibres - 2.94%



### Estimated Annual Quantities Generated

- 6.58 MT of material are expected to be generated annually of which 2.37 MT consists of organics.

### Waste Diversion Rate

- The 2024 waste diversion rate **was calculated to be 17.64%** which is below the provincial objective of 60%.

### Capture Rate

- The overall **Capture Rate is 42.76%** based on a total diverted quantity of 1.16MT and a total potential divertible quantity of 2.52 MT.

## **8 Recommendations**

Based on the conclusions, the following recommendations are tied to the conclusions discussed in the previous section.

The Site diverts 17.64% of generated waste through existing programs, below the provincial objective of 60%. The capture rate is 42.76%. There are opportunities to improve the waste diversion rate and capture rate further.

### **8.1 Improve Existing Waste Diversion Programs**

Improving the following existing diversion programs could improve waste diversion and capture rates.

#### Mandatory Recyclables

- **Fine paper** – **0.37 MT** of material is estimated to be generated annually through the garbage stream. Diverting this through the Red Box stream could **increase the waste diversion rate up to 5.6%** and **could increase the Red Box capture rate up to 22.2%**.
- **Glass** – **0.03 MT** of material is estimated to be generated annually through the garbage stream. Diverting this material through the existing Blue Box stream could **increase the waste diversion rate up to 0.4%** and **could increase the Blue Box capture rate up to 4%**.
- **Cardboard** – **0.02 MT** of material is estimated to be generated annually through the garbage stream. Diverting this material through the existing Red Box stream could **increase the waste diversion rate up to 0.29%** and **could increase the Red Box capture rate up to 0.8%**.

#### Red Box and Blue Box Streams

- **PET #1 - 0.24 MT** of material is estimated to be generated annually through the garbage stream. Diverting this quantity through the existing Blue Box stream could

**increase the waste diversion rate by up to 3.6%** and could **increase the Blue Box capture rate by up to 28%**.

- **Boxboard** - **0.21 MT** of material is estimated to be generated annually through the garbage stream. Diverting this quantity through the existing Red Box stream could **increase the waste diversion rate by up to 3.2%** and could **increase the Red Box capture rate by up to 12.4%**.
- **Aseptic containers** - **0.17 MT** of material is estimated to be generated annually through the garbage stream. Diverting this quantity through the existing Blue Box stream could **increase the waste diversion rate by up to 2.6%** and could **increase the Blue Box capture rate by up to 20%**.
- **PP#5 and kraft paper/other fibres** - **0.16 MT** of material is estimated to be generated annually through the garbage stream. Diverting this quantity through the existing streams could **increase the waste diversion rate by up to 2.4%**.

## 8.2 Add Organics Diversion Programs

Organics generated in the garbage stream accounted for 2.36 MT of material annually. Diverting this material through a new organics diversion program **could increase waste diversion by up to 35.9%**.

## 8.3 Dedicated Receptacles and Update Signage

Waste diversion rates could be improved by implementing dedicated receptacles with clear signage to encourage waste separation at the source. Provide dedicated receptacles with signage and pictograms as a clear message to staff and students to separate divertible materials from landfill waste at source. Pictograms can provide examples of the types of waste suitable for the waste collection stream. Divertible material should be consolidated into a centralized location and picked up by a dedicated contractor.

## 8.4 Promoting Culture

A committee is recommended to oversee waste reduction and sustainability and promote a culture of waste diversion. Educate students and staff on the importance of waste diversion and communicate the corporate goals for waste diversion and sustainability. Create a positive message around the benefits of waste diversion and the individual's role.

- Support and encourage purchasing and using “environmentally friendly,” reusable or recyclable materials, packaging, and/or recycled content.
- Ensure an Environmental Policy is visible in common areas throughout the building and continue to emphasize the facility’s commitment to environmental stewardship through its training program and green or environmental initiatives.
- Encourage staff and students to prioritize bringing reusable containers, water bottles, and coffee cups.
- Promote and highlight current environmental programs and efforts through newsletters, posters, and/or bulletin boards for waste management.

## **8.5 Continuous Monitoring and Process Improvement**

Track year-over-year changes in waste diversion and capture rates and communicate progress to staff and students to encourage further participation/engagement.

Continuous monitoring and reporting for this site annually and comparison with year-over-year changes would provide insight into trends, which can be used as a basis for policy decisions regarding solid waste management for future projects. Further refinements to programs/processes can be made, and adherence to provincial requirements can be achieved.



## Appendices

## Appendix A: List of Categories

Material Category	Description
<b>1. Paper and Paper Products</b>	
Fine Paper	Includes mixed fine papers, writing paper, office paper, copy paper, bills and statements, ad mail, lottery tickets, receipts, envelopes, promotional cards, promotional calendars, printed information found within packaged products, etc. <ul style="list-style-type: none"> <li>Also includes softcover books, booklets, magazines, catalogues, calendars, flyers, and inserts.</li> </ul>
Newsprint	Major daily and weekly newspapers and community newspapers. Does not include flyers and inserts.
Shredded Confidential Papers	Any paper that has been shredded.
Boxboard	Single-layered paperboard and fibre board with no corrugation. This includes cereal boxes, shoe boxes, cores from toilet paper, paper towels, gift wrap, etc.
Kraft Paper	Kraft paper bags and wrap, grocery or retail bags, potato bags, pet food bags, etc. Includes brown, white, and coloured kraft paper and bags. No bags with bonded plastic or foil lining.
Corrugated Cardboard	Waxed or unwaxed corrugated cardboard containers. Includes moulded pulp materials such as egg cartons, drink trays, other trays, etc.
Gable Top Containers	Polycoat containers with a gable-shaped top are used for milk, juice, some foods, etc.
Aseptic Containers	Tetra-pak-type polycoat packaging containers are used for juice, milk, soups and broths, alternative milk beverages, and alcoholic beverages.
Composite Cans	Spiral-wound cans with paper walls and plastic or metal tops or bottoms. They contain frozen juice, Pringles chips, dough, some raisins, etc.

Coffee Cups	All cups and containers used for hot/cold beverages and food (without a plastic oHot Primarily, hot/cold food and beverage containers are common in the fast food industry. Includes paper-based cups with a plastic lining, water cooler cups, freezer boxes, etc.
<b>2. Plastic</b>	
#1 Polyethylene Terephthalate (PET)	All PET #1 plastics. This includes clear or coloured thermoform packaging, beverage bottles, and non-beverage bottles used for food and non-food items such as dish soap, shampoo, mouthwash, window cleaner, and floor cleaner. <ul style="list-style-type: none"> <li>• Does not include Black Plastics.</li> </ul>
#2 High-Density Polyethylene (HDPE)	All HDPE #2 plastics. Includes natural and coloured bottles, jugs, and containers for beverages, food items, and non-food items such as laundry soap, shampoo, bleach, vinegar, pill bottles, etc. <ul style="list-style-type: none"> <li>• Does not include Black Plastics.</li> </ul>
#4 Low-Density Polyethylene (LDPE) Films	All #4 LDPE plastic films. This includes soft, "stretchy" PE plastic used for items such as produce bags, water bottle overwraps, garbage bags, kitchen liners, blue or clear recycling bags, sandwich and freezer bags, etc. <ul style="list-style-type: none"> <li>• Does not include Black Plastics.</li> </ul>
#5 Polypropylene (PP)	All #5 PP plastics. Includes clear and coloured food containers, jugs, jars, take-out beverage cups, bottles, and jars for food items. <ul style="list-style-type: none"> <li>• Does not include Black Plastics.</li> </ul>
#6 Non-Expanded Polystyrene (PS)	All Non-Expanded (rigid) #6 PS plastics. Includes clear or coloured rigid food trays, clamshells, cup lids, yogurt cups, CD and DVD cases only (no disk), etc. <ul style="list-style-type: none"> <li>• Does not include Black Plastics.</li> </ul>
Other Recyclable Plastics (#3, 4, 7)	All other recyclable plastics (#3, 4, 7). Includes clear and coloured bottles, jugs, jars, and containers.
<b>3. Glass/Metal</b>	

Glass:	<p>All clear and coloured glass. Includes bottles and containers for food, beverages, cosmetics, toiletries, household pharmaceutical products, candle jars, etc.</p> <ul style="list-style-type: none"> <li>Does not include non-recyclable glass such as windowpane glass, plates, drinking glasses, figures, or incandescent light bulbs.</li> </ul>
Aluminum	<p>All aluminum containers and foils. Includes food and beverage containers, rigid aluminum trays (pie plates, baking trays, etc.), empty aerosol containers, and containers for hair products, tubes, etc.</p> <ul style="list-style-type: none"> <li>Does not include full or partially full pressurized cans.</li> </ul>
Steel	<p>All steel containers. Includes food and beverage containers, empty spray cans (for cooking oil, whipped cream, etc.), and empty paint cans.</p> <ul style="list-style-type: none"> <li>Does not include full or partially full pressurized cans.</li> </ul>
<b>4. Organics</b>	
Organic Food Waste	<p>All edible and non-edible organic waste from food items. Includes untouched and leftover bakery, meat &amp; fish, dried food, fruits &amp; vegetables, dairy, and other foods.</p>
Other Organics:	<p>All other organic materials that are not derived from food items. Includes yard waste, grass clippings, small wood waste, pet waste, diapers and sanitary products, certified compostable plastic bin liners, and other compostable papers.</p>
Compostable fibres	<p>Include paper towels, paper napkins, toilet paper, facial tissues, etc.</p>
<b>5. Operational waste</b>	
Other metals,	<p>Scrap metals, copper pipes, hardware, etc. Includes multi-material items that are mainly metal.</p>

Non-Treated Wood	<p>Non-treated wood materials. Includes skids/pallets, wooden furniture, etc.</p> <ul style="list-style-type: none"> <li>Does not include branches, brush, or wood chips.</li> </ul>
Batteries	<p>All single-use and rechargeable batteries. Includes Alkaline-Manganese, Lithium, Silver Oxide, Zinc Air, Zinc-Carbon, etc.</p>
Printer Toners	<p>All ink cartridges and printer toners.</p>
E-Waste	<p>All waste is from electrical and electronic equipment (WEEE). Anything that is battery-operated and/or can be plugged into an electrical outlet. Includes computer/IT equipment, telecom equipment, TV &amp; audio equipment, small kitchen appliances, wires/chargers /adapters, cocks, gadgets, etc.</p>
Plastic Strapping	<p>This is All-Plastic Strapping material. It is used to bundle products for retail sales and can come in various colours and plastic materials.</p>
<b>6. Non-Recyclable Waste</b>	
Non-Recyclable/Garbage	<p>All other non-recyclable waste materials are not classified elsewhere. Includes hazardous waste, coffee cups, black plastics, and expanded polystyrene, all described below. Includes chip bags, furnace filters, laminated papers, rigid or durable plastics, non-recyclable glass, dust, single-use cleaning wipes, single-use coffee pods, plastic straws and cutlery, materials too small to process, etc.</p>
Hazardous Wastes	<p>All hazardous wastes are not classified elsewhere. Includes full or partially full pressurized cans, paints, and oil containers.</p> <ul style="list-style-type: none"> <li>Also includes fluorescent light bulbs and tubes, medical sharps and syringes, mercury-containing devices, pharmaceuticals, antifreeze, fertilizers, solvents, pesticides, etc.</li> <li>Also includes all other liquid or non-liquid items with signal words such as "Poison," "Danger," "Warning," "Caution," and "Precautionary Statements."</li> </ul>



<p>Cold Beverage Wax-Lined Cups</p>	<p>All cups and containers have a plastic or wax lining. Multiple-layered, primarily fibre, hot/cold food and beverage containers are common in the fast food industry. This includes paper-based cups with a plastic lining, water cooler cups, freezer boxes, etc.</p>
<p>Black Plastics</p>	<p>Includes all Black Plastics #1-7 and unmarked.</p> <ul style="list-style-type: none"><li>• Also includes rigid, durable, and expanded Black Plastics and black plastic bags.</li></ul>
<p>Expanded Polystyrene</p>	<p>This includes white, coloured, and black polystyrene foam packaging for food trays, clamshells, etc., as well as foam packaging for "peanuts" and foam blocks used to protect boxed products.</p>

## Appendix B: Scale Calibration Certificate



### CALIBRATION CERTIFICATE

**DATE:** July 05 2024

**SR #** 52342

**CUSTOMER:**

Waste Reduction Group  
214 Merton St. # 101  
Toronto ON

**REMARKS**

This is to certify that the following scale has been tested and verified in relation to the Standards maintained by **CANADIAN SCALE COMPANY LIMITED**, with test weights traceable to the Legal Metrology Laboratories of, Industry Canada and National Research Council, Canada.

**Western model - EWH150**

**Capacity - 150 kg**

**S/N - 202104114**

**CANADIAN SCALE COMPANY LIMITED is an Authorized Service Provider of  
Measurement Canada**

\_\_\_\_\_  
Technician's signature

**WRG** | waste reduction group Inc.  
+416 823 4554 | admin@wastereductiongroup.ca



**CANADIAN SCALE COMPANY LIMITED**

305 Horner Avenue, Toronto, ON M8W 1Z4  
1-800-461-0634      www.canscale.com

### Appendix C: Detailed Sample Composition

(Note: higher intensity of blue highlighting indicates higher sample weight/percent)

Sampled Stream Functional Area O.Reg 103/94 Type	Red Box				Blue Box				Garbage								Total	
	Classroom		Office		Classroom		Office		Classroom		Gym		Office		Washrooms			
	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
<b>Non-Recyclable</b>	<b>0.33</b>	<b>0.96%</b>	<b>0.03</b>	<b>0.09%</b>	<b>0.06</b>	<b>0.18%</b>	<b>0.01</b>	<b>0.03%</b>	<b>16.05</b>	<b>47.33%</b>	<b>0.96</b>	<b>2.83%</b>	<b>2.54</b>	<b>7.48%</b>	<b>0.95</b>	<b>2.80%</b>	<b>20.92</b>	<b>61.69%</b>
Organics	0.01	0.01%	0.00	0.00%	0.01	0.03%	0.00	0.00%	10.06	29.67%	0.94	2.77%	1.18	3.48%	0.00	0.00%	12.20	35.97%
Paper Towels/Compostable Fibres	0.12	0.35%	0.00	0.00%	0.01	0.03%	0.00	0.00%	2.86	8.43%	0.00	0.00%	0.50	1.47%	0.54	1.59%	4.03	11.89%
Non-Recyclables	0.19	0.56%	0.03	0.09%	0.02	0.06%	0.01	0.03%	1.77	5.22%	0.01	0.03%	0.34	1.00%	0.15	0.44%	2.52	7.43%
LDPE (#4) Plastic Films	0.01	0.03%	0.00	0.00%	0.00	0.00%	0.00	0.00%	1.04	3.07%	0.01	0.03%	0.00	0.00%	0.01	0.03%	1.07	3.16%
Scrap Metal	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.50	1.47%	0.00	0.00%	0.50	1.47%
Polystyrene #6	0.00	0.00%	0.00	0.00%	0.01	0.03%	0.00	0.00%	0.24	0.71%	0.00	0.00%	0.01	0.03%	0.00	0.00%	0.26	0.77%
Diapers	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.24	0.71%	0.24	0.71%
PPE	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.04	0.12%	0.00	0.00%	0.00	0.00%	0.01	0.03%	0.05	0.15%
Cold Beverage Wax-Lined Paper Cups	0.00	0.00%	0.00	0.00%	0.01	0.03%	0.00	0.00%	0.02	0.06%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.03	0.09%
Styrofoam	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.03%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.03%
Bubble Wrap/Shrink Wrap	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.02%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.02%
Scrap Wood	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.01%	0.00	0.00%	0.01	0.01%
Plastic Strapping	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%
<b>Other Recyclable</b>	<b>0.47</b>	<b>1.39%</b>	<b>0.39</b>	<b>1.15%</b>	<b>0.63</b>	<b>1.86%</b>	<b>0.01</b>	<b>0.03%</b>	<b>3.92</b>	<b>11.55%</b>	<b>0.02</b>	<b>0.06%</b>	<b>1.30</b>	<b>3.82%</b>	<b>0.02</b>	<b>0.06%</b>	<b>6.75</b>	<b>19.91%</b>
PET #1	0.01	0.03%	0.00	0.00%	0.24	0.71%	0.01	0.03%	1.12	3.30%	0.00	0.00%	0.14	0.41%	0.00	0.00%	1.52	4.48%
Aseptic Containers	0.00	0.00%	0.38	1.12%	0.16	0.47%	0.00	0.00%	0.88	2.60%	0.00	0.00%	0.01	0.03%	0.00	0.00%	1.43	4.22%
Boxboard	0.34	1.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.11	0.32%	0.00	0.00%	0.98	2.89%	0.00	0.00%	1.43	4.22%
Kraft Paper/Other Fibres	0.10	0.29%	0.01	0.03%	0.00	0.00%	0.00	0.00%	0.80	2.36%	0.00	0.00%	0.01	0.03%	0.01	0.03%	0.93	2.74%
PP #5	0.00	0.00%	0.00	0.00%	0.01	0.03%	0.00	0.00%	0.68	2.01%	0.01	0.03%	0.14	0.41%	0.00	0.00%	0.84	2.48%
HDPE Plastic Containers #2	0.00	0.00%	0.00	0.00%	0.20	0.59%	0.00	0.00%	0.12	0.35%	0.01	0.03%	0.00	0.00%	0.00	0.00%	0.33	0.97%
Other Plastics #7	0.00	0.00%	0.00	0.00%	0.01	0.03%	0.00	0.00%	0.10	0.29%	0.00	0.00%	0.01	0.01%	0.00	0.00%	0.12	0.34%
Gable Top Containers	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.09	0.27%	0.00	0.00%	0.01	0.03%	0.00	0.00%	0.10	0.29%
Coffee Cups	0.01	0.03%	0.00	0.00%	0.01	0.03%	0.00	0.00%	0.01	0.01%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.03	0.07%
Electronic Waste	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.03%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.03%
Moulded Pulp	0.01	0.03%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.03%
Textiles	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.03%	0.01	0.03%
Batteries	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%
Composite Cans	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%
Lightbulbs	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%
Printer Toners	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%
<b>Mandatory Recyclable</b>	<b>4.00</b>	<b>11.80%</b>	<b>0.01</b>	<b>0.03%</b>	<b>0.02</b>	<b>0.04%</b>	<b>0.03</b>	<b>0.09%</b>	<b>1.99</b>	<b>5.87%</b>	<b>0.02</b>	<b>0.04%</b>	<b>0.18</b>	<b>0.53%</b>	<b>0.00</b>	<b>0.00%</b>	<b>6.24</b>	<b>18.40%</b>
Fine Paper	1.98	5.84%	0.00	0.00%	0.01	0.03%	0.00	0.00%	1.90	5.60%	0.01	0.03%	0.01	0.03%	0.00	0.00%	3.91	11.53%
Cardboard	2.02	5.96%	0.00	0.00%	0.01	0.01%	0.00	0.00%	0.08	0.24%	0.00	0.00%	0.01	0.03%	0.00	0.00%	2.12	6.24%
Glass	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.16	0.47%	0.00	0.00%	0.16	0.47%
Aluminum	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.03%	0.01	0.03%	0.01	0.01%	0.00	0.00%	0.00	0.00%	0.03	0.07%
Steel Cans	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.02	0.06%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.02	0.06%
Newspaper	0.00	0.00%	0.01	0.03%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.01	0.03%
<b>Total</b>	<b>4.80</b>	<b>14.14%</b>	<b>0.43</b>	<b>1.27%</b>	<b>0.71</b>	<b>2.08%</b>	<b>0.05</b>	<b>0.15%</b>	<b>21.95</b>	<b>64.74%</b>	<b>1.00</b>	<b>2.93%</b>	<b>4.01</b>	<b>11.83%</b>	<b>0.97</b>	<b>2.86%</b>	<b>33.91</b>	<b>100.00%</b>

## Appendix D: Estimated Annual Quantities Generated and Capture Rates by Material

Divertible Material	Total Generated (MT)	Diverted Through Red Box Program (MT)	Diverted Through Blue Box Program (MT)	Total Diverted (MT)	Landfill Quantity (MT)
<b>Colchester North Public School</b>	<b>6.58</b>	<b>1.01</b>	<b>0.15</b>	<b>1.16</b>	<b>5.42</b>
<b>Non-Recyclable</b>	<b>4.06</b>	<b>0.07</b>	<b>0.01</b>	<b>0.08</b>	<b>3.98</b>
Organics	2.37	0.00	0.00	0.00	2.36
Paper Towels/Compostable Fibres	0.78	0.02	0.00	0.03	0.76
Non-Recyclables	0.49	0.04	0.01	0.05	0.44
LDPE (#4) Plastic Films	0.21	0.00	0.00	0.00	0.21
Scrap Metal	0.10	0.00	0.00	0.00	0.10
Polystyrene #6	0.05	0.00	0.00	0.00	0.05
Diapers	0.05	0.00	0.00	0.00	0.05
PPE	0.01	0.00	0.00	0.00	0.01
Cold Beverage Wax-Lined Paper Cups	0.01	0.00	0.00	0.00	0.00
Styrofoam	0.00	0.00	0.00	0.00	0.00
Bubble Wrap/Shrink Wrap	0.00	0.00	0.00	0.00	0.00
Scrap Wood	0.00	0.00	0.00	0.00	0.00
Plastic Strapping	0.00	0.00	0.00	0.00	0.00
<b>Other Recyclable</b>	<b>1.31</b>	<b>0.17</b>	<b>0.12</b>	<b>0.29</b>	<b>1.02</b>
PET #1	0.29	0.00	0.05	0.05	0.24
Boxboard	0.28	0.07	0.00	0.07	0.21
Aseptic Containers	0.28	0.07	0.03	0.10	0.17
PP #5	0.16	0.00	0.00	0.00	0.16
Kraft Paper/Other Fibres	0.18	0.02	0.00	0.02	0.16
HDPE Plastic Containers #2	0.06	0.00	0.04	0.04	0.03
Other Plastics #7	0.02	0.00	0.00	0.00	0.02
Gable Top Containers	0.02	0.00	0.00	0.00	0.02
Electronic Waste	0.00	0.00	0.00	0.00	0.00
Textiles	0.00	0.00	0.00	0.00	0.00
Coffee Cups	0.00	0.00	0.00	0.00	0.00
Batteries	0.00	0.00	0.00	0.00	0.00
Composite Cans	0.00	0.00	0.00	0.00	0.00
Lightbulbs	0.00	0.00	0.00	0.00	0.00
Moulded Pulp	0.00	0.00	0.00	0.00	0.00
Printer Toners	0.00	0.00	0.00	0.00	0.00
<b>Mandatory Recyclable</b>	<b>1.21</b>	<b>0.78</b>	<b>0.01</b>	<b>0.79</b>	<b>0.42</b>
Fine Paper	0.76	0.38	0.00	0.39	0.37
Glass	0.03	0.00	0.00	0.00	0.03
Cardboard	0.41	0.39	0.00	0.39	0.02
Aluminum	0.00	0.00	0.00	0.00	0.00
Newspaper	0.00	0.00	0.00	0.00	0.00
Steel Cans	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>6.58</b>	<b>1.01</b>	<b>0.15</b>	<b>1.16</b>	<b>5.42</b>

## Appendix E: Site Photographs



Site Tour - typical red box, blue box, and garbage bins



Site Tour - typical garbage bins



Site Tour - battery recycling receptacle

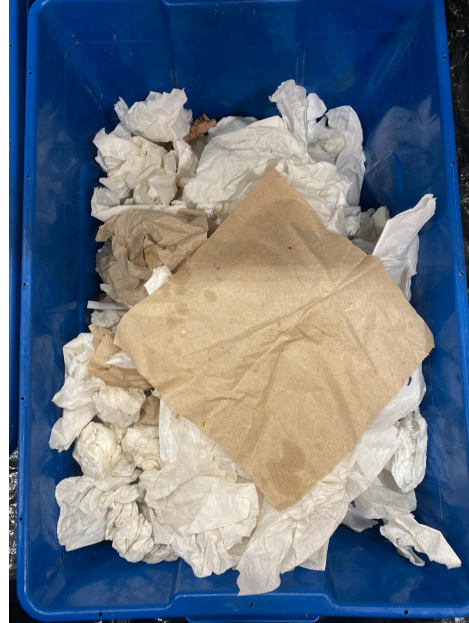


Site Tour - Typical recycling bins

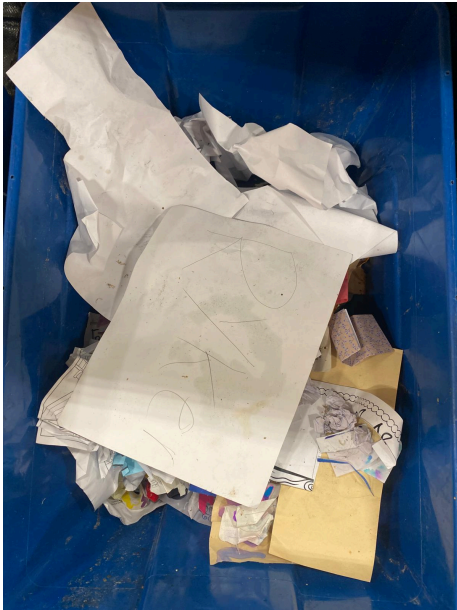




Waste audit - classroom garbage stream sample - organics



Waste audit - classroom garbage stream sample - paper towels



Waste audit - classroom garbage stream sample - fine paper



Waste audit - classroom garbage stream sample - PET #1



Waste audit - office red box stream sample - fine paper



Waste audit - classroom red box stream sample - cardboard

## Appendix F: School Calendar



### Greater Essex County District School Board

#### Student Calendar 2024-2025

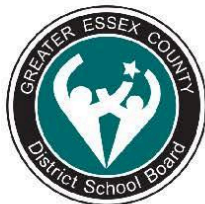
##### Elementary and Secondary

Elementary and Secondary PA Days	Secondary Only PA Days	Holidays
Elementary Only PA Days	Exam Days (Grades 9-12)	Break

SEPTEMBER							OCTOBER							NOVEMBER							DECEMBER							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	
25	26	27	28	29	30	31			1 <sub>5</sub>	2 <sub>1</sub>	3 <sub>2</sub>	4 <sub>3</sub>	5							1 <sub>1</sub>	2	1	2 <sub>1</sub>	3 <sub>2</sub>	4 <sub>3</sub>	5 <sub>4</sub>	6 <sub>5</sub>	7
1	2	3 <sub>1</sub>	4 <sub>2</sub>	5 <sub>3</sub>	6 <sub>4</sub>	7	6	7 <sub>4</sub>	8 <sub>5</sub>	9 <sub>1</sub>	10 <sub>2</sub>	11	12	3	4 <sub>2</sub>	5 <sub>3</sub>	6 <sub>4</sub>	7 <sub>5</sub>	8 <sub>1</sub>	9	8	9 <sub>1</sub>	10 <sub>2</sub>	11 <sub>3</sub>	12 <sub>4</sub>	13 <sub>5</sub>	14	
8	9 <sub>5</sub>	10 <sub>1</sub>	11 <sub>2</sub>	12 <sub>3</sub>	13 <sub>4</sub>	14	13	14	15 <sub>3</sub>	16 <sub>4</sub>	17 <sub>5</sub>	18 <sub>1</sub>	19	10	11 <sub>2</sub>	12 <sub>3</sub>	13 <sub>4</sub>	14 <sub>5</sub>	15	16	15	16 <sub>1</sub>	17 <sub>2</sub>	18 <sub>3</sub>	19 <sub>4</sub>	20 <sub>5</sub>	21	
15	16 <sub>5</sub>	17 <sub>1</sub>	18 <sub>2</sub>	19 <sub>3</sub>	20	21	20	21 <sub>2</sub>	22 <sub>3</sub>	23 <sub>4</sub>	24 <sub>5</sub>	25 <sub>1</sub>	26	17	18 <sub>1</sub>	19 <sub>2</sub>	20 <sub>3</sub>	21 <sub>4</sub>	22 <sub>5</sub>	23	22	23	24	25	26	27	28	
22	23 <sub>4</sub>	24 <sub>5</sub>	25 <sub>1</sub>	26 <sub>2</sub>	27 <sub>3</sub>	28	27	28 <sub>2</sub>	29 <sub>3</sub>	30 <sub>4</sub>	31 <sub>5</sub>			24	25 <sub>1</sub>	26 <sub>2</sub>	27 <sub>3</sub>	28 <sub>4</sub>	29 <sub>5</sub>	30	29	30	31					
29	30 <sub>4</sub>																											

JANUARY							FEBRUARY							MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S
		1	2	3	4								1							1			1 <sub>4</sub>	2 <sub>5</sub>	3 <sub>1</sub>	4 <sub>2</sub>	5
5	6 <sub>1</sub>	7 <sub>2</sub>	8 <sub>3</sub>	9 <sub>4</sub>	10 <sub>5</sub>	11	2	3 <sub>5</sub>	4 <sub>1</sub>	5 <sub>2</sub>	6 <sub>3</sub>	7 <sub>4</sub>	8	2	3 <sub>3</sub>	4 <sub>4</sub>	5 <sub>5</sub>	6 <sub>1</sub>	7 <sub>2</sub>	8	6	7 <sub>3</sub>	8 <sub>4</sub>	9 <sub>5</sub>	10 <sub>1</sub>	11 <sub>2</sub>	12
12	13 <sub>1</sub>	14 <sub>2</sub>	15 <sub>3</sub>	16 <sub>4</sub>	17	18	9	10 <sub>5</sub>	11 <sub>1</sub>	12 <sub>2</sub>	13 <sub>3</sub>	14	15	9	10	11	12	13	14	15	13	14 <sub>3</sub>	15 <sub>4</sub>	16 <sub>5</sub>	17 <sub>1</sub>	18	19
19	20 <sub>5</sub>	21 <sub>1</sub>	22 <sub>2</sub>	23 <sub>3</sub>	24 <sub>4</sub>	25	16	17	18 <sub>4</sub>	19 <sub>5</sub>	20 <sub>1</sub>	21 <sub>2</sub>	22	16	17 <sub>3</sub>	18 <sub>4</sub>	19 <sub>5</sub>	20 <sub>1</sub>	21 <sub>2</sub>	22	20	21	22 <sub>2</sub>	23 <sub>3</sub>	24 <sub>4</sub>	25 <sub>5</sub>	26
26	27 <sub>5</sub>	28 <sub>1</sub>	29 <sub>2</sub>	30 <sub>3</sub>	31 <sub>4</sub>		23	24 <sub>3</sub>	25 <sub>4</sub>	26 <sub>5</sub>	27 <sub>1</sub>	28 <sub>2</sub>		23	24 <sub>3</sub>	25 <sub>4</sub>	26 <sub>5</sub>	27 <sub>1</sub>	28 <sub>2</sub>	29	27	28 <sub>1</sub>	29 <sub>2</sub>	30 <sub>3</sub>			
														30	31 <sub>3</sub>												

May							June							Important Dates			
S	M	T	W	T	F	S	S	M	T	W	T	F	S				
				1 <sub>4</sub>	2 <sub>5</sub>	3	1	2 <sub>5</sub>	3 <sub>1</sub>	4 <sub>2</sub>	5 <sub>3</sub>	6	7	<b>First Day of Classes</b>	September 3rd		
4	5 <sub>1</sub>	6 <sub>2</sub>	7 <sub>3</sub>	8 <sub>4</sub>	9 <sub>5</sub>	10	8	9 <sub>4</sub>	10 <sub>5</sub>	11 <sub>1</sub>	12 <sub>2</sub>	13 <sub>3</sub>	14	<b>Last Day of Classes</b>	June 26th		
11	12 <sub>1</sub>	13 <sub>2</sub>	14 <sub>3</sub>	15 <sub>4</sub>	16 <sub>5</sub>	17	15	16 <sub>4</sub>	17 <sub>5</sub>	18 <sub>1</sub>	19 <sub>2</sub>	20 <sub>3</sub>	21	<b>194 Instructional Days</b>	Large numbers in black		
18	19	20 <sub>1</sub>	21 <sub>2</sub>	22 <sub>3</sub>	23 <sub>4</sub>	24	22	23 <sub>4</sub>	24 <sub>5</sub>	25 <sub>1</sub>	26 <sub>2</sub>	27	28	<b>Elementary 5 Day Cycle (1-5)</b>	Small numbers in black		
25	26 <sub>5</sub>	27 <sub>1</sub>	28 <sub>2</sub>	29 <sub>3</sub>	30 <sub>4</sub>	31	29	30						<b>Elem. and Sec. PA Days</b>	<b>Elementary PA Days</b>	<b>Secondary PA Days</b>	<b>Exam Days (Grades 9-12)</b>
														September 20th	January 17th	January 31st	January 24th—30th
														October 11th	June 6th	April 25th	June 20th—26th
														November 15th			
														February 14th			
														June 27th			



Building Tomorrow Together

Holidays and Breaks			
<b>Labour Day</b>	September 2nd	<b>March Break</b>	March 10th—14th
<b>Thanksgiving</b>	October 14th	<b>Good Friday</b>	April 18th
<b>Holiday Break</b>	Dec. 23rd—Jan. 3rd	<b>Easter</b>	April 21st
<b>Family Day</b>	February 17th	<b>Victoria Day</b>	May 19th



## Appendix G: Waste Audit and Reduction Work Plan