



waste reduction

Working together to reduce waste

**Brock University
2018 Solid Non-Hazardous Waste Audit**

Prepared for:

Brock University
1812 Sir Isaac Brock Way
St. Catharines, Ontario, L2S 3A1

Prepared by:

Waste Reduction Group Inc
801 King Street West, Unit PH#20
Toronto, Ontario, M5V 3C9
Phone (416) 823-4554

Waste Reduction Group Project P0927
April 2019

801 King St. W, Unit PH #20, Toronto ON, M5V 3C9
info@wastereductiongroup.ca
Customer Service: 416 823 4554
Fax: 289 997 6979

Waste Reduction Group Inc.
www.wastereductiongroup.ca

Executive Summary

Brock University retained the services of Waste Reduction Group Inc to conduct a solid non-hazardous waste audit at its campus located in St. Catharines, Ontario. A waste audit was conducted during the fall of 2018 to determine waste composition. Twenty-four hour samples of trash and recyclables were collected for the waste audit from 26 buildings, consisting of 1439 kg of trash and 217 kg of recyclables. The collected samples were audited over eight (8) days in November/December 2018. Waste materials collected for the audit were tagged to indicate the functional area of the building that generated the waste, including office, public, food service kitchens, food service dining areas, food service tenant areas, washrooms, labs, self-contained residences and outdoor bins. The following list summarizes the overall trash composition determined from the audit:

• Other/Non-recyclable	26.1%
• Organic Waste	16.6%
• Paper Towels:	15.6%
• Mixed Containers:	14.7%
• Mixed Papers:	10.8%
• Coffee Cups:	7.7%
• LDPE (#4 Plastic) films:	5.2%
• Cardboard:	2.2%
• Styrofoam:	0.4%
• Ewastes:	0.3%
• Scrap Metals, Batteries, Scrap Woods:	Each 0.1%
• Bulbs, Other Plastics:	Each <= 0.1%

In addition, recycle stream samples were collected at the University. Approximately 71% of the recycle stream samples consisted of mixed papers and mixed containers. The recycle stream sample had a contamination rate of approximately 11.1%, comprised mainly of non-recyclables and organics.

Waste diversion programs have been implemented on campus for cardboard, mixed containers, mixed papers, confidential papers, scrap metals, organics, coffee cups, oil & grease, bulbs & ballasts, electronic wastes, batteries, yard wastes, wood pallets, printer toners, used furniture/clothing donations, lab bottles, LCBO/Beer Store returns, and waste reduction initiatives. Through discussions with Brock U and waste management and recycling service providers, estimates of the annual amounts of solid non-hazardous waste materials disposed and diverted were determined. The following table summarizes the annual quantities of wastes reduced, reused, recycled, composted and disposed in 2018.

Annual Quantities Disposed & Diverted in 2018

Material	Total Annual Amount	
	Metric Tonnes	Percent
Disposed to Landfill	530.66	26.7%
Materials Reduced	9.30	0.5%
Materials Reused	85.17	4.3%
Materials Recycled	987.94	49.6%
Materials Composted	377.28	19.0%
Total Waste Generated	1990.35	100.0%

Based on the total annual amount of waste generated and materials diverted, the 2018 waste diversion rate at Brock U was determined to be approximately 73.3%. The Ministry of the Environment, Conservation & Parks (MECP) provincial objective is 60% waste diversion rate. Brock U's management team are committed to maintaining this excellent result and minimizing the amount of materials disposed to landfill.

Table of Contents

Executive Summary.....	i
1 Introduction	1
1.1 Purpose	1
1.2 Scope of Work	1
2 Methodology	2
3 Waste Audit Results	4
3.1 Trash Quantities & Distribution	4
3.2 Trash Composition	6
3.2.1 Fall Trash Composition	7
3.2.2 Summer Trash Composition	8
3.2.3 Office/Administrative Areas.....	9
3.2.4 Public Areas.....	9
3.2.5 Washrooms	10
3.2.6 Food Service – Kitchen Areas	10
3.2.7 Food Service – Dining Areas.....	11
3.2.8 Laboratories	11
3.2.9 Residences.....	12
3.2.10 Outdoor Bins	12
3.3 Trash Composition per Building.....	12
3.3.1 Schmon Tower.....	13
3.3.2 Lowenberger Residence	13
3.3.3 DeCew Residence	14
3.3.4 MacKenzie Chown Complex.....	14
3.3.5 Student Centre	15
3.3.6 Plaza/Bookstore	15
3.3.7 Village Residence.....	16
3.3.8 Walker West Complex.....	16
3.3.9 Cairns Building.....	17
3.3.10 Welch Hall	18
3.3.11 Outdoor Bins	18
3.3.12 Marilyn Walker.....	18
3.3.13 EARP Residence	19
3.3.14 International Centre.....	19
3.3.15 Quarryview Residence N	20
3.3.16 Taro	20
3.3.17 Quarryview Residence S.....	21
3.3.18 Daycare.....	21
3.3.19 Hamilton Campus.....	22
3.3.20 Central Utility Building	22
3.3.21 BRIC	23
3.3.22 Kenmore Centre – Harrison Hall	23

3.3.23	Alphie’s Trough	24
3.3.24	East Academic	24
3.3.25	DeCew Café	25
3.3.26	573A Glenridge.....	25
3.4	Percentage of Recyclables in Trash.....	26
3.5	Recyclable Material Distribution.....	27
3.6	Recyclable Material Composition	28
4	Diversion Programs & Waste Systems	29
4.1	Waste Diversion Programs	29
4.2	Waste Disposal Systems.....	32
5	Performance Metrics	32
5.1	Waste Diversion Rate.....	32
5.2	Capture Rate	33
5.3	Year over Year Change in Waste Generation	34
5.3.1	Year-over-Year Change in 3Rs Quantities	34
5.3.2	Year-over-Year Change in Trash Disposed	35
6	Changes at Brock U in 2018	35
7	Waste Audit Summary & Waste Reduction Work Plan	36
8	Conclusions & Recommendations	36

Appendices

Appendix A	Supporting Documentation
Appendix B	Waste Audit Data
Appendix C	Waste Audit Summary
Appendix D.....	Waste Reduction Work Plan Summary

1 Introduction

Brock University (Brock U) retained the services of Waste Reduction Group Inc to conduct a solid non-hazardous waste audit in 2018 at its campus located in St. Catharines, Ontario. The waste audit examined representative samples of waste (trash and recyclables) from the entire campus over an eight (8) day period in November/December to gain an understanding of the quantities and composition of solid wastes generated on campus.

Brock U is a multi-building community that has approximately 18,788 students (Fall 2017) and staff that generate waste and recyclable materials. According to Brock U's website, 17419.5 Full-Time Equivalent (FTE) students attended the university in 2017-18 (Refer to Appendix A).

Brock U took the initiative to conduct a solid non-hazardous waste audit with the intent of remaining in compliance with O.Reg. 102/94 and to further improve upon their present waste reduction, reuse and recycling initiatives.

1.1 Purpose

The purpose of the solid non-hazardous waste audit was to:

- Comply with Part X of O.Reg. 102/94 'Waste Audits and Waste Reduction Work Plans', which requires the operator of an educational institution with more than 350 students enrolled per year, to conduct an annual waste audit and prepare and implement a waste reduction work plan (Refer to Appendix A for a partial excerpt of O.Reg.102/94);
- Ensure compliance with Section 14 of O.Reg.103/94 'Industrial, Commercial and Institutional Source Separation Programs' and Part X 'Educational Institutions' of the Schedule attached to the Regulation (Refer to Appendix A for a partial excerpt of O.Reg.103/94).
- Determine the annual waste diversion rate for Brock U resulting from existing waste reduction, reuse, and recycling programs;
- Identify point of generation and quantify composition of wastes at Brock U;
- Identify any additional opportunities for waste reduction and diversion that may exist at Brock U;
- Identify potential cost savings associated with the disposal of solid waste materials; and
- Address any specific concerns or opportunities identified during the study.

1.2 Scope of Work

To satisfy the purpose of the waste audit, the following scope of work was completed:

- Collected data pertaining to waste composition and collection practices between November 27th and December 7th, 2018.

- Determined the total quantity of waste materials diverted from landfill by Brock U through current reduction, reuse, and recycling initiatives;
- Completed a Waste Audit Report (per MOE protocol) that addressed the amount, nature and composition of the waste, the manner by which the waste was generated, including management decisions and policies that relate to the production of waste, and the way in which the waste is managed on campus; and
- Completed a Waste Reduction Work Plan (per MOE protocol) regarding plans to reduce, reuse and recycle waste on campus. The report set out who will implement each part of the plan, when each part will be implemented and what the expected results shall be.

2 Methodology

Discussions were held with Brock U personnel to review existing waste management and recycling programs implemented on campus. Based on previous audit experience and information gathered by Brock U, a detailed waste audit schedule was developed. The waste audit was performed over eight (8) days in November/December 2018, as summarized in Table 1:

Table 1: 2017 Waste Audit - Sample Summary

Date	Building/Location
Nov. 27, 2018	Walker Complex, Kenmore Centre - Harrison Hall, Welch Hall, CUB and BRIC
Nov. 28, 2018	Cairns, Plaza & Book Store, Taro and Student Centre
Nov. 29, 2018	Outdoor Bins, Alphie Trough and Marilyn I. Walker School
Nov. 30, 2018	Tower
Dec. 4, 2018	International Centre, 573A Glenridge, East Academic, Daycare, Quarryview N, Quarryview S
Dec. 5, 2018	Earp Residence, DeCew Residence N and DeCew Café
Dec. 6, 2018	Lowenberger and Village
Dec. 7, 2018	MacKenzie Chown and Hamilton Campus

In coordination with the Brock U staff, one (1) twenty-four hour sample of waste was collected from each of the identified buildings on the audit schedule. Bags of trash and recyclables were collected and tagged with coloured tape describing the functional area within the building that generated the waste material, as summarized in Table 2:

Table 2: 2017 Waste Audit - Functional Area Summary

Colour Tag	Functional Areas
Blue	Office / Administrative Areas
Red	Public Areas (Class rooms, lobbies, lounges, libraries, corridors, etc.)
Orange	Washrooms
Green	Food Services – Kitchens
Silver	Food Services – Dining Areas
Purple	Laboratories
Untagged	Self contained residences
Untagged	Outdoor bins

The tagged bags of wastes were brought to designated collection areas by Brock U staff and placed into temporary plastic pushcarts supplied by Waste Reduction Group. The total bagged weight of all trash and recyclable materials from each functional area per building were recorded. Refer to Appendix A for a copy of the Scale Calibration Certificate.

Waste materials were then unloaded, sorted into individual material categories, weighted, re-bagged and disposed of in the appropriate garbage or recycling bins. Trash and recyclable samples were sorted by a qualified two (2) person team from Waste Reduction Group. Some of the materials source separated by Brock U for recycling (i.e. cardboard, organics, ewastes, printer toners, etc) were not collected and categorized during the audit, due to infrequency of generation, however the annual quantity of each material was reviewed and included in the audit results.

Waste material categories were established prior to the audit based on O.Reg.103/94 requirements for source separation at educational institutions, including:

- Aluminum food or beverage cans (including cans made primarily of aluminum);
- Cardboard (corrugated);
- Fine paper;
- Glass bottles and jars for food or beverages;
- Newsprint; and
- Steel food or beverage cans (including cans made primarily of steel).

In addition to these standard categories other important waste streams such as other mixed containers (PET, HDPE, polypropylene, aseptic, gable top), organic wastes, paper towels, mixed plastics, Styrofoam, yard waste, electronic waste (ewaste), scrap wood, scrap metal and special wastes (i.e. batteries, bulbs and ballasts) were included depending on what auditors found in the samples.

3 Waste Audit Results

3.1 Trash Quantities & Distribution

A key aspect of O. Reg. 102/94 is for waste generators to gain a good understanding of the areas of their operation that generate the most waste, how it is generated, as well as the waste composition. One can use this information to focus their recycling and waste reduction efforts efficiently and effectively.

Figure 1 and Table 3 ranks trash generated per building based on the audit results.

Figure 1: Brock University 2018 Annualized Garbage Generation Distribution

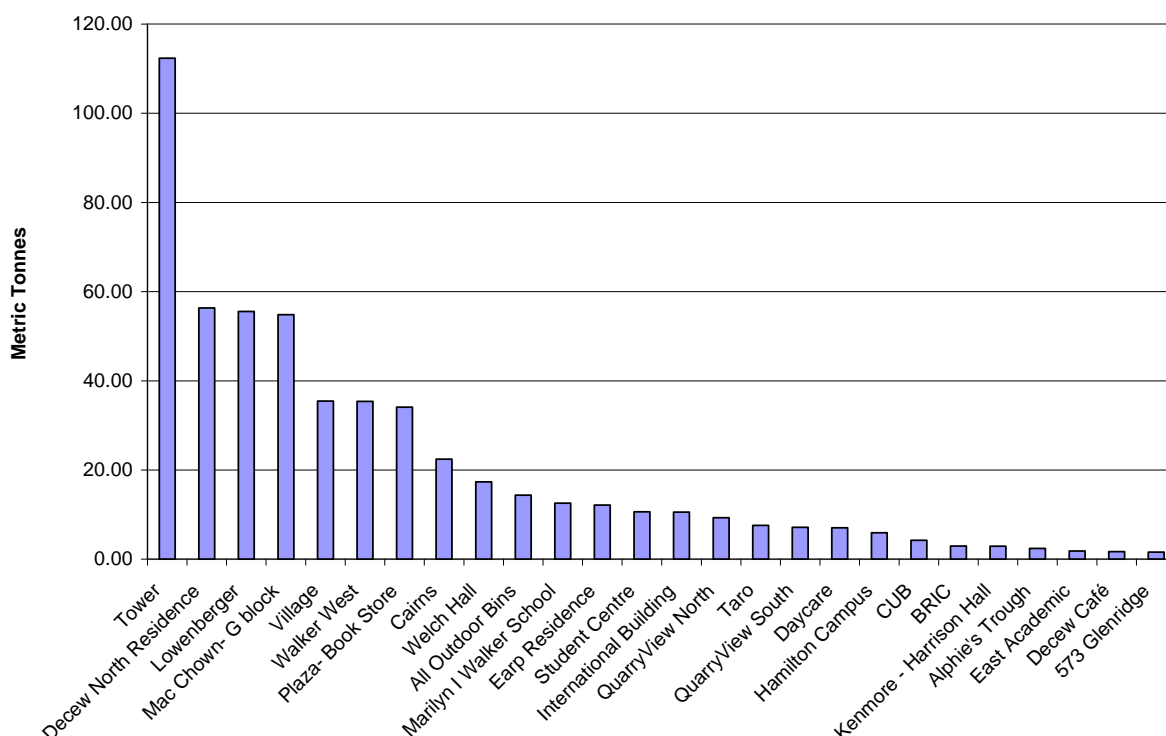


Table 3: 2018 Waste Audit - Annualized Waste Generated per Building (Based on 24-hr Sample)

Building Name	Percentage ⁽¹⁾ %	Annual Quantity Metric Tonnes
Schmon Tower	20.86%	110.71
Decew North Residence	10.46%	55.51
Lowenberger	10.31%	54.72
Mac Chown- G block	10.18%	54.05
Village	6.59%	34.95
Walker West	6.57%	34.86
Plaza- Book Store	6.33%	33.60
Cairns	4.17%	22.11

Welch Hall	3.22%	17.08
All Outdoor Bins	2.66%	14.13
Marilyn I Walker School	2.33%	12.39
Earp Residence	2.25%	11.94
Student Centre	1.97%	10.45
International Building	1.96%	10.38
QuarryView North	1.73%	9.17
Taro	1.41%	7.48
QuarryView South	1.33%	7.04
Daycare	1.31%	6.94
Hamilton Campus	1.10%	5.84
CUB	0.78%	4.16
Captain John Decew-BRIC	0.55%	2.91
Kenmore - Harrison Hall	0.54%	2.88
Alphie's Trough	0.45%	2.37
East Academic	0.34%	1.80
Decew Café	0.31%	1.65
573 Glenridge	0.29%	1.56
Total	100.0%	530.66

Note 1: Percentage based on 24-hr garbage sample results from the waste audit.

Therefore, Schmon Tower, North Decew Residence, Lowenberger, MacKenzie Chown, Village, Walker West and Plaza/Bookstore were the most significant generators of waste on campus, accounting for approximately 71% of the garbage stream.

As noted above, a review of Brock U's activities identified the following functional areas within campus buildings:

- Office / Administrative Areas
- Public Areas
- Washrooms
- Food Service – Kitchens
- Food Service – Dining Areas
- Food Service – Tenant Areas
- Laboratories
- Self-Contained Residences
- Outdoor Bins

Table 4 ranks trash generated per building functional area based on the audit results.

Table 4: 2018 Waste Audit – Annualized Waste Generated per Functional Area

Functional Area	Percentage ⁽¹⁾ %	Annual Quantity Metric Tonnes
Public Areas	54.0%	286.79
Residences	22.4%	118.99
Office & Administrative	7.4%	39.06
Washrooms	7.4%	39.04
Food Services - Dining	2.7%	14.41
Labs	2.4%	12.49
Food Services - Kitchens	1.1%	5.73
Outdoor Bins	2.7%	14.13
Food Services - Tenant Space	0.0%	0.00
Total	100.0%	530.66

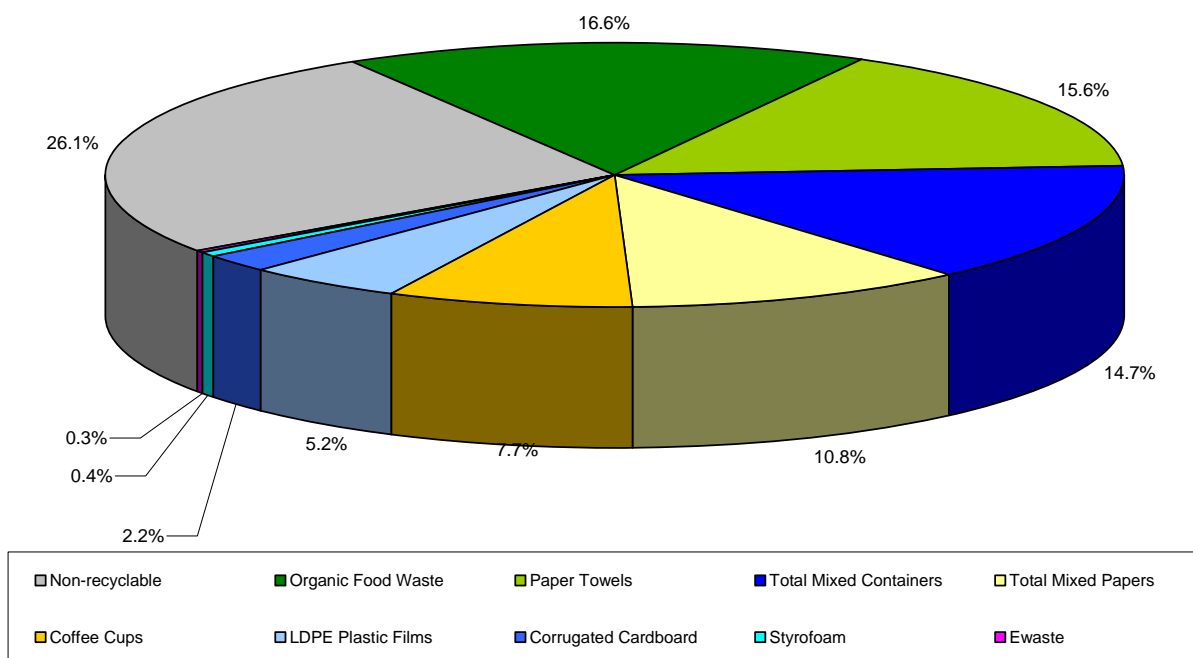
Note 1: Percentage based on 24-hr garbage sample results from the waste audit.

Therefore, public areas, self-contained residences, office areas and washrooms generated the most trash on campus, accounting for approximately 91% of the garbage stream.

3.2 Trash Composition

The total weight of trash collected and sorted for the Fall 2018 waste audit was approximately 1439 kg. In 2015, a summer waste audit was also conducted to estimate trash composition during the summer period in order to account for seasonal variability. Figure 2 summarizes the average overall combined trash composition from the 2018 fall waste audit and 2015 summer waste audit.

**Figure 2: Brock University 2018 Overall Garbage Composition Summary
 (Combined Fall 2018 & Summer 2015 Trash Compositions)**

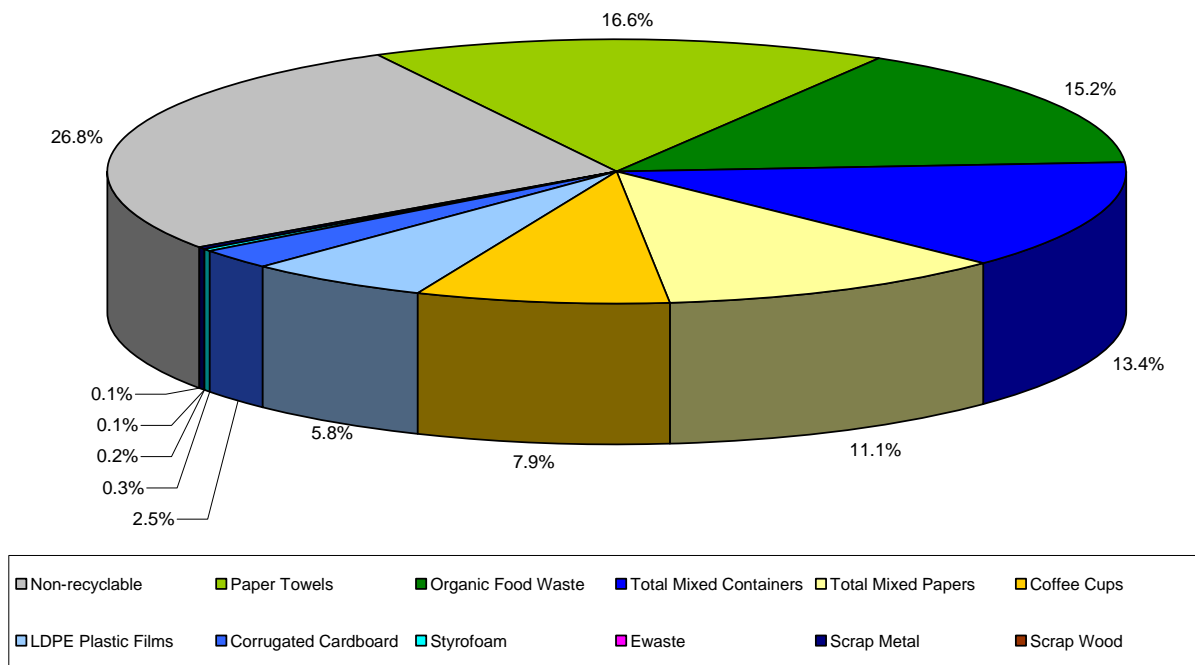


Note: Scrap Metals, Batteries, Scrap Woods, Bulbs, Other Plastics each <=0.1% thus not included in graph for clarity.

3.2.1 Fall Trash Composition

The total weight of waste collected and sorted for the fall audit was 1439.13 kg. Figure 3 summarizes the average overall fall waste composition of the audited sample:

Figure 3: Brock University 2018 Fall Garbage Composition Summary



Note: Bulbs & Other Plastics each <0.1% thus not included in graph for clarity.

Summary tables for each building per waste generation functional area, including waste composition, weights and percentages, are included in Appendix B. Table 5 summarizes the largest primary categories (i.e. >5%) of waste materials per generation area (based on the total amount of waste audited):

Table 5: 2018 Fall Waste Audit - Primary Waste Categories per Generation Area

Waste Generation Area	Percent of Sample (By Weight)	Non-recyclable	Paper Towels	Organics	Mixed Containers	Mixed Papers	Coffee Cups	Plastic Films
Public Areas	54.0%	28.0%	10.2%	15.2%	14.6%	12.6%	9.1%	6.4%
Residences	22.4%	26.1%	12.9%	17.1%	16.4%	11.8%	7.1%	
Office & Admin	7.4%	30.5%	13.0%	19.9%	10.2%	8.6%	9.5%	6.3%
Washrooms	7.4%	11.1%	79.1%					
Food Services Dining	2.7%	23.0%	10.0%	22.4%	16.0%	11.5%	12.6%	
Outdoor Bins	2.7%	38.0%	7.4%	13.6%	15.2%	12.0%	6.1%	
Labs	2.4%	45.1%	31.8%			6.8%		9.4%
Food Services Kitchens	1.1%	9.3%	12.4%	45.3%	7.9%			22.4%
Total	100.0%	26.8%	16.6%	15.2%	13.4%	11.1%	7.9%	5.8%

Paper towels were found in fairly high quantities in all audited areas. Paper towels content was especially high in washrooms and labs. Brock U may want to investigate the feasibility of implementing a diversion program for paper towels in these areas. Often paper towels can be mixed with cardboard or organic programs depending on vendor specifications.

Organic food wastes were found in high quantities in all areas that were audited except washrooms and labs. Organic content was especially high in food service areas and office areas. An organics program is implemented on campus. It is recommended that Brock U focus attention on organics diversion in these areas in order to capture more of the organic materials that are currently ending up in the garbage stream.

Fairly high amounts of mixed papers and mixed containers were found in the garbage stream from most areas of the university. Brock U has implemented recycling programs for mixed papers and mixed containers. Results suggest that better collection systems, improved labels, program promotion and/or student/employee/cleaner education may be required to capture more of these materials.

3.2.2 Summer Trash Composition

Refer to Brock U's 2015 Waste Audit Report (Waste Reduction Group Project P0525, dated February 2016) for details regarding Brock U's summer trash composition.

3.2.3 Office/Administrative Areas

Based on the total combined amount of garbage audited from office/administrative areas, the largest primary categories (i.e. >5%) of waste generated were as follows:

○ Non-Recyclable:	27.2%
○ Mixed Containers:	19.2%
○ Organics:	18.0%
○ Paper towels:	10.3%
○ Coffee Cups:	8.5%
○ Mixed Papers:	8.3%

The percentages of mixed containers and mixed papers were high especially since recycling programs have been implemented for these materials. Results suggest that improved collection systems, signs, program promotion and/or staff/cleaner education may be required to capture more of these materials. The organics and paper towel content was quite high and suggests that staff eat meals at their desks. Brock U may wish to focus on placing more organic bins in office areas.

Office / Administrative Areas in the following buildings were found to generate the most trash compared to all office/administrative areas that were audited:

○ Schmon Tower:	29.0%
○ Cairns:	15.9%
○ Taro:	12.6%

3.2.4 Public Areas

Based on the total combined amount of waste audited from public areas, the largest primary categories (i.e. >5%) of waste generated were as follows:

○ Non-Recyclable:	26.5%
○ Mixed Containers:	16.6%
○ Organics:	16.0%
○ Mixed Papers:	12.7%
○ Paper Towels:	9.6%
○ Coffee Cups:	9.0%
○ Plastic Films:	5.6%

The percentages of mixed containers and mixed papers were fairly high, especially since recycling programs have been implemented for these materials in public areas. Results suggest that better collection systems, improved signs, program promotion and/or staff/student education may be required to improve the capture rate of these materials. The percentage of organic materials and paper towels was quite high. Brock U may wish to investigate the feasibility of adding some organics bins in busy public areas.

Public Areas in the following buildings were found to generate the most trash compared to all public areas that were audited:

- Schmon Tower: 28.2%
- Decew Residence: 17.7%
- MacKenzie Chown: 14.3%

3.2.5 Washrooms

Based on the total combined amount of waste audited from washroom areas, the largest primary categories (i.e. >5%) of waste generated were as follows:

- Paper Towels: 75.0%
- Non-Recyclable: 11.8%
- Organics: 5.1%

The percentage of paper towels was high in washroom waste. Brock U may wish to investigate the feasibility of implementing a paper towel recycle program, or replacing paper towels in washrooms with reusable hand towels or hand dryers. Often, paper towels can be included with organic or cardboard recycle programs.

Washrooms in the following buildings were found to generate the most trash compared to all washrooms that were audited:

- Schmon Tower: 27.2%
- Walker West: 15.8%
- MacKenzie Chown: 11.1%

3.2.6 Food Service – Kitchen Areas

Based on the total amount of waste audited from food service kitchen areas, the largest primary categories (i.e. >5%) of waste generated were as follows:

- Organic Material: 45.3%
- Plastic Films: 22.4%
- Paper Towels: 12.4%
- Non-Recyclable: 9.3%
- Mixed Containers: 7.9%

The percentage of organic material was high. Focus should be placed on diverting organics from kitchen area garbage streams. Mixed containers were found in fairly high quantities, especially since recycling programs have been implemented to capture these materials. Results suggest that better collection systems, updated labels, program promotion and/or staff education may be required to capture more organics and mixed containers. Paper towels in the kitchen area may be added to the organics stream (depending on hauler requirements).

Food Service Areas in the following buildings were found to generate the most trash compared to all food service kitchen areas that were audited:

- Student Centre: 60.6%
- Daycare: 39.4%

3.2.7 Food Service – Dining Areas

Based on the total amount of waste audited from food service areas, the largest primary categories (i.e. >5%) of waste generated were as follows:

- Non-Recyclable: 23.0%
- Organics: 22.4%
- Mixed Containers: 16.0%
- Coffee Cups: 12.6%
- Mixed Papers: 11.5%
- Paper Towels: 10.0%

The percentage of organic materials was quite high. Mixed containers and mixed papers were also found in fairly high quantities, especially since recycling programs have been implemented to capture these materials. Results suggest that better collection systems, updated labels, program promotion and/or staff education may be required to capture more organics, mixed containers and mixed papers.

Food Service Dining Areas in the following buildings were found to generate the most trash compared to all food service dining areas that were audited:

- Schmon Tower: 27.4%
- Plaza / Bookstore: 23.0%
- Walker West: 20.0%

3.2.8 Laboratories

Based on the total amount of waste audited from lab areas, the largest primary categories (i.e. >5%) of waste generated were as follows:

- Non-Recyclable: 45.1%
- Paper Towels: 31.8%
- Plastic Films: 9.4%
- Mixed Papers: 6.8%

The percentage of paper towels was high. Brock U may wish to investigate the feasibility of implementing a paper towel recycle program. The percentage of mixed papers was also quite high. Results suggest that better collection systems, improved labels, program promotion and/or staff/student education may be required to improve the capture rate of these materials.

Lab areas in the following buildings were found to generate the most trash compared to all labs that were audited:

- Cairns: 72.6%
- MacKenzie Chown: 27.4%

3.2.9 Residences

Based on the total amount of waste audited from residences, the largest primary categories (i.e. >5%) of waste generated were as follows:

- Non-Recyclable: 26.1%
- Organics: 17.1%
- Mixed Containers: 16.4%
- Paper Towels: 12.9%
- Mixed Papers: 11.8%
- Coffee Cups: 7.1%

The percentages of organic materials, mixed containers, paper towels and mixed papers were quite high. Results suggest that better collection systems, improved labels, program promotion and/or staff/student education may be required to improve the capture rate of these materials.

The following residences were found to generate the most trash:

- Lowenberger: 46.0%
- Village: 29.4%
- Earp Residence: 10.0%

3.2.10 Outdoor Bins

Based on the total amount of waste audited from outdoor bins, the largest primary categories (i.e. >5%) of waste generated were as follows:

- Non-Recyclable: 38.0%
- Mixed Containers: 15.2%
- Organics: 13.6%
- Mixed Papers: 12.0%
- Paper Towels: 7.4%
- Coffee Cups: 6.1%

Percentages of mixed containers and papers were quite high. The percentages of organics were also very high. Results suggest that improved labels, program promotion and/or staff/student education may be required to improve the capture rate of these materials.

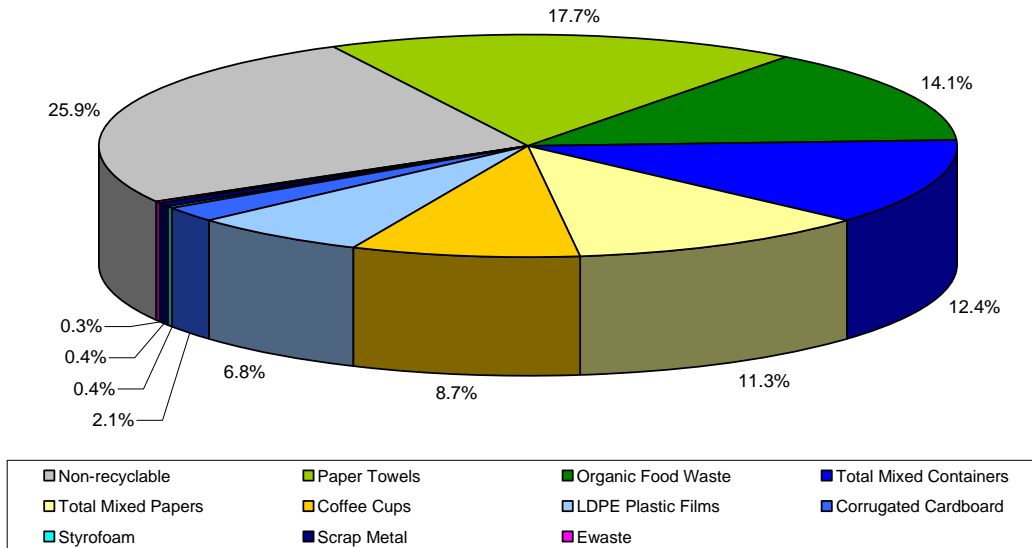
3.3 Trash Composition per Building

The overall trash composition determined for each building based on 24-hour sample results is presented below.

3.3.1 Schmon Tower

Figure 4 summarizes the trash composition determined at the Tower based on the 2018 waste audit sample.

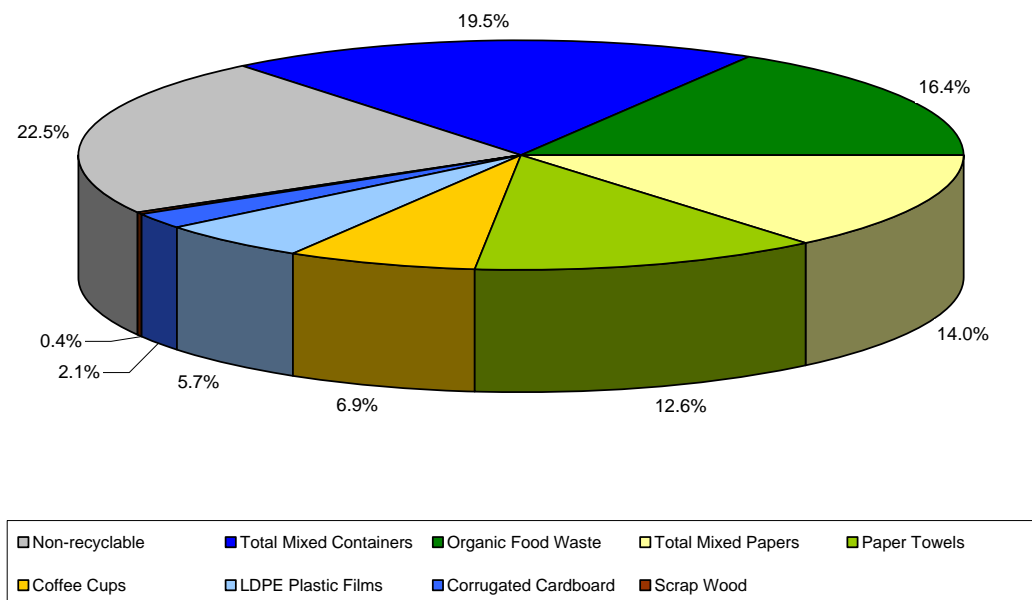
Figure 4: Schmon Tower 2018 Trash Composition Summary



3.3.2 Lowenberger Residence

Figure 5 summarizes the trash composition determined at the Lowenberger Residence in 2018.

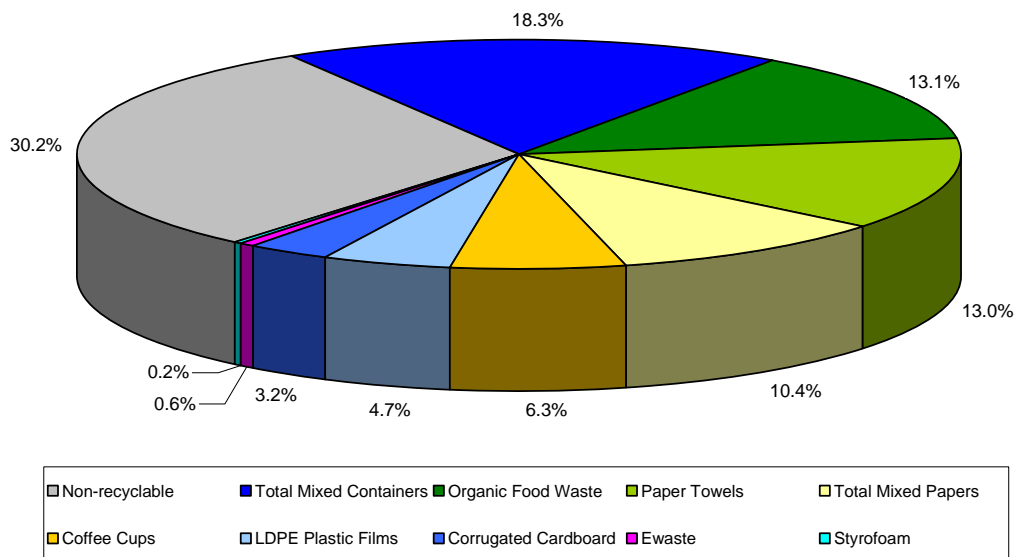
Figure 5: Lowenberger Residence 2018 Trash Composition Summary



3.3.3 DeCew Residence

Figure 6 summarizes the trash composition determined at the DeCew Residence in 2018.

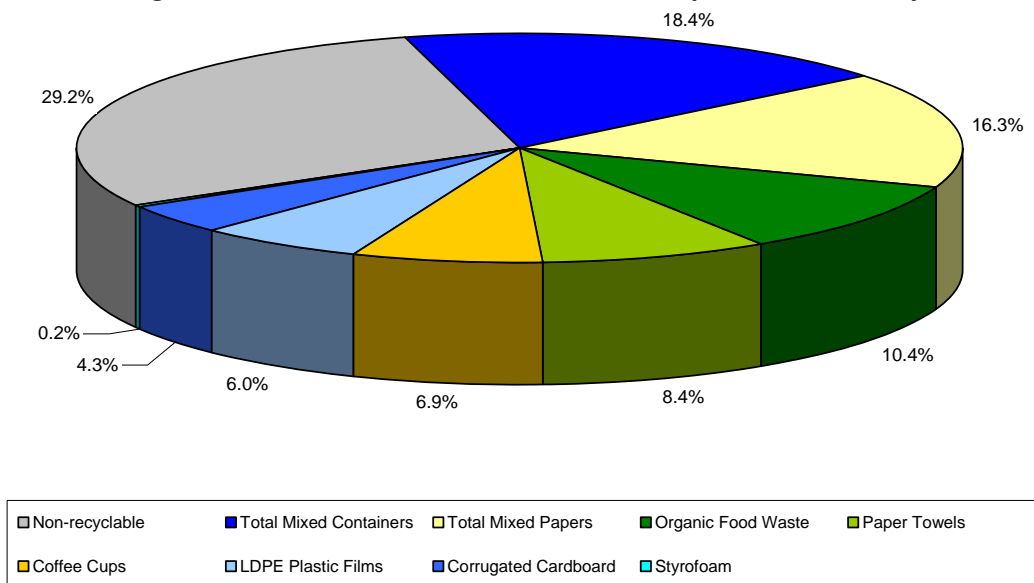
Figure 6: DeCew Residence 2018 Trash Composition Summary



3.3.4 MacKenzie Chown Complex

Figure 7 summarizes the trash composition determined at the MacKenzie Chown Complex in 2018.

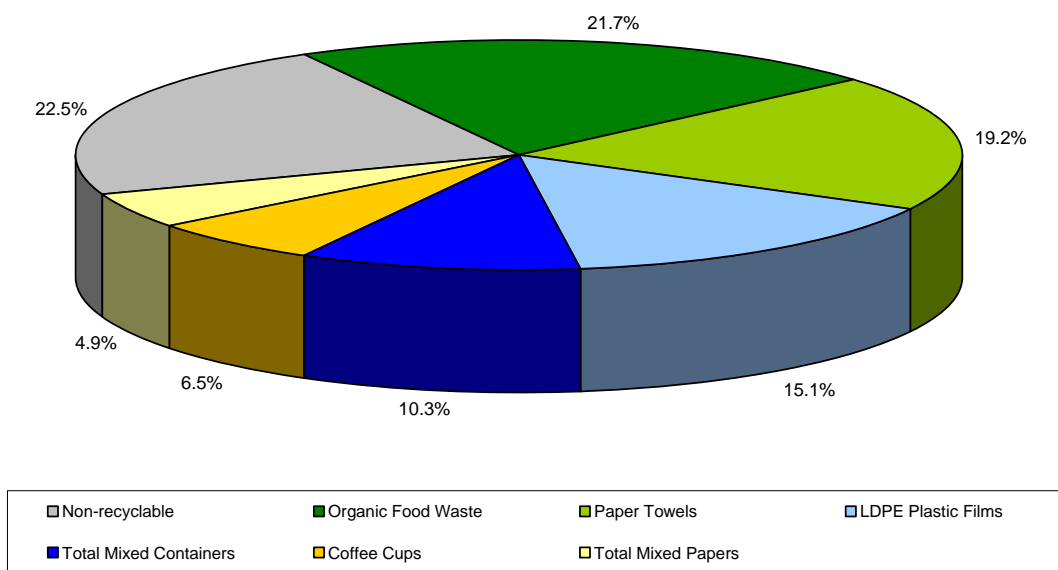
Figure 7: MacKenzie Chown 2018 Trash Composition Summary



3.3.5 Student Centre

Figure 8 summarizes the trash composition determined at the Student Centre in 2018.

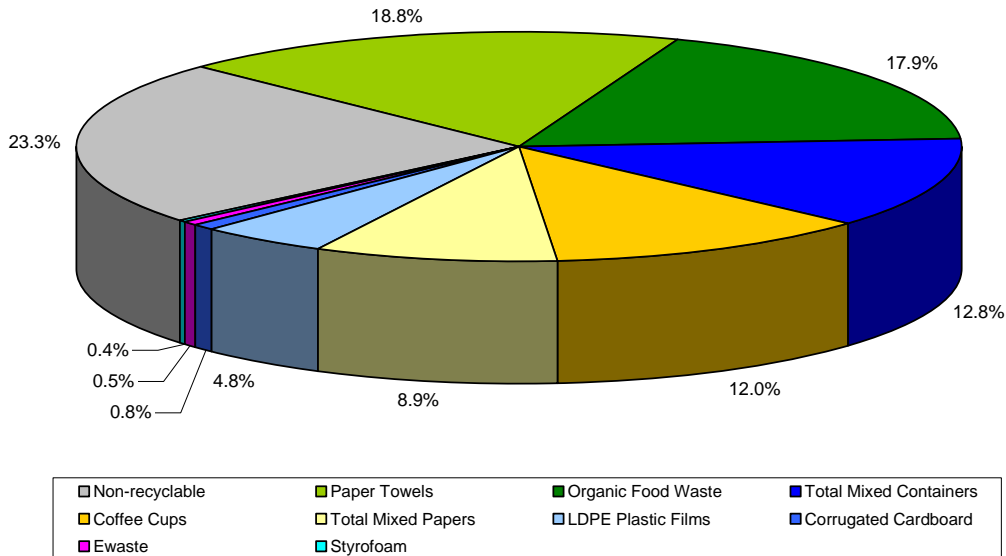
Figure 8: Student Centre 2018 Trash Composition Summary



3.3.6 Plaza/Bookstore

Figure 9 summarizes the trash composition determined at the Plaza/Bookstore in 2018.

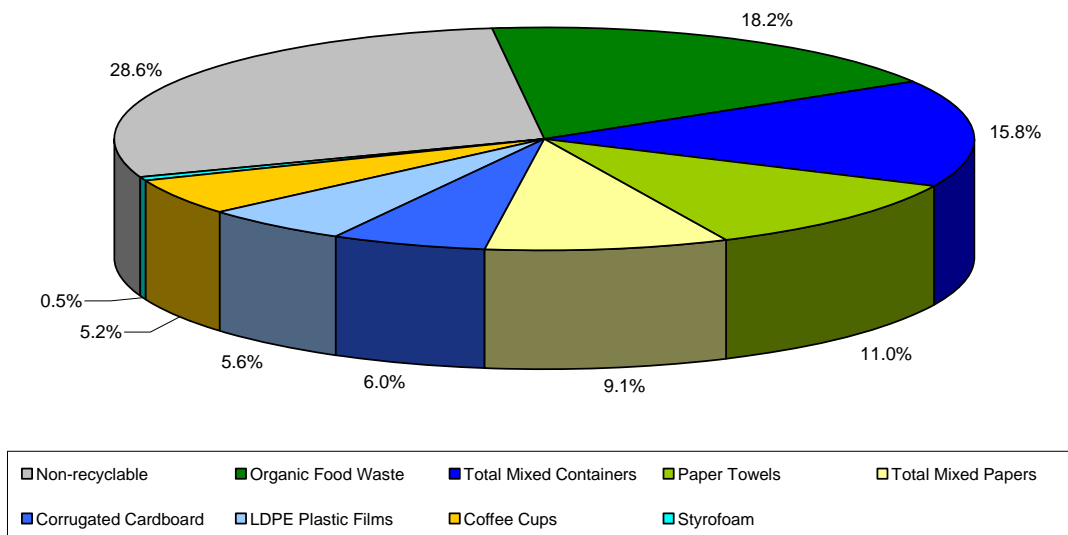
Figure 9: Plaza/Bookstore 2018 Trash Composition Summary



3.3.7 Village Residence

Figure 10 summarizes the trash composition determined at the Village Residence in 2018.

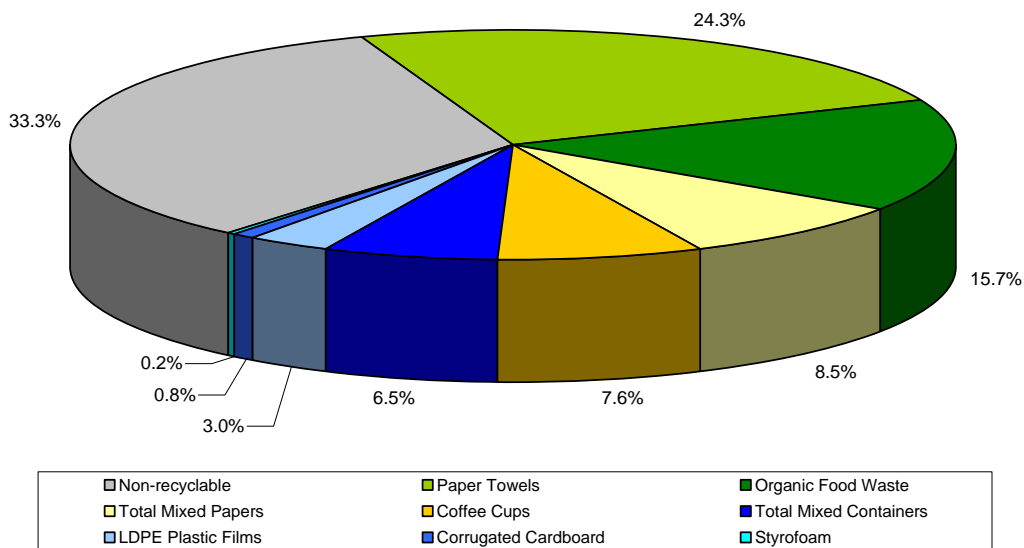
Figure 10: Village Residence 2018 Trash Composition Summary



3.3.8 Walker West Complex

Figure 11 summarizes the trash composition determined at the Walker West Complex in 2018.

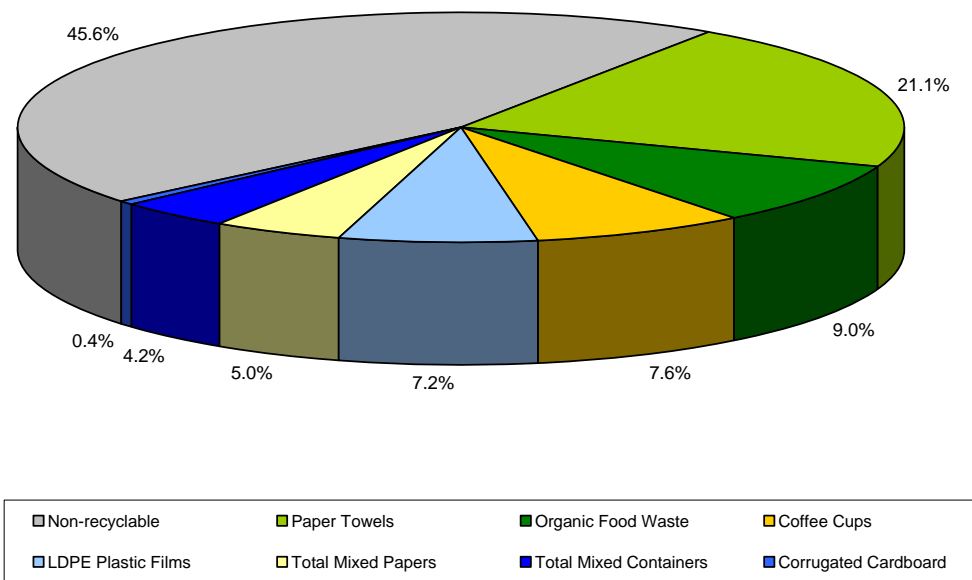
Figure 11: Walker West Complex 2018 Trash Composition Summary



3.3.9 Cairns Building

Figure 12 summarizes the trash composition determined at the Cairns Building in 2018.

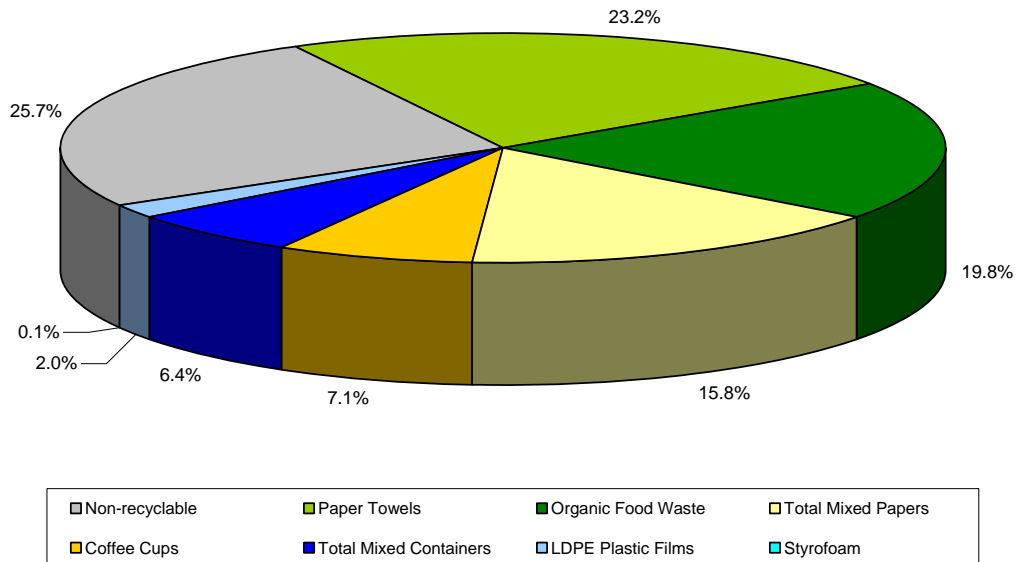
Figure 12: Cairns Building 2018 Trash Composition Summary



3.3.10 Welch Hall

Figure 13 summarizes the trash composition determined at Welch Hall in 2018.

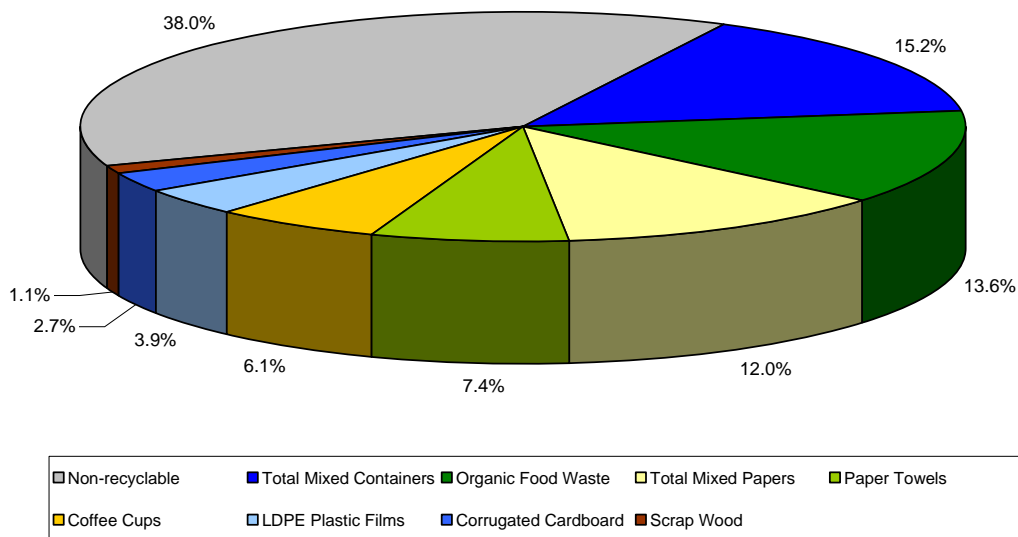
Figure 13: Welch Hall 2018 Trash Composition Summary



3.3.11 Outdoor Bins

Figure 14 summarizes the trash composition determined in outdoor bins in 2018.

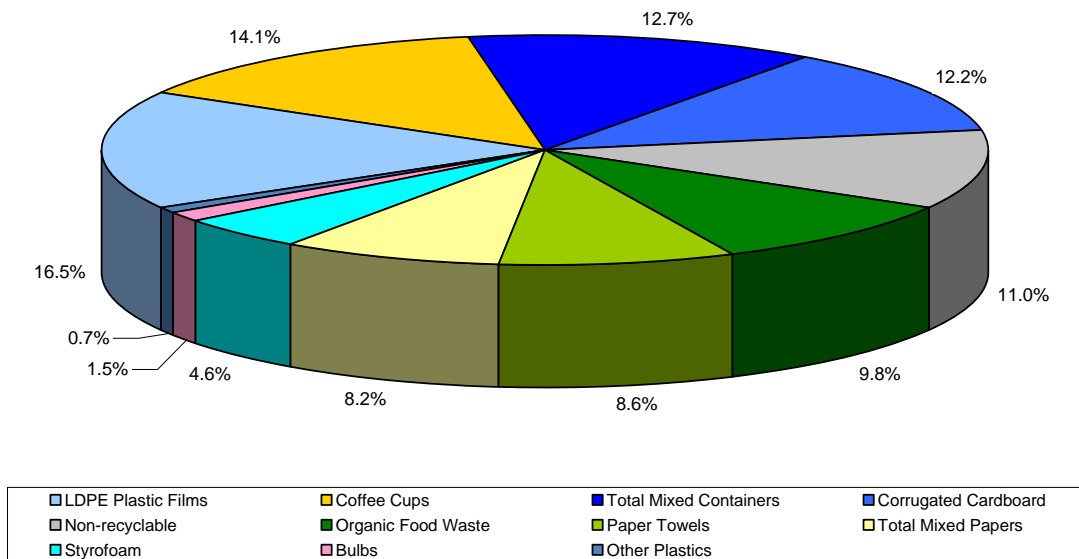
Figure 14: Outdoor Bins 2018 Trash Composition Summary



3.3.12 Marilyn Walker

Figure 15 summarizes the trash composition determined at the Marilyn Walker facility in 2018.

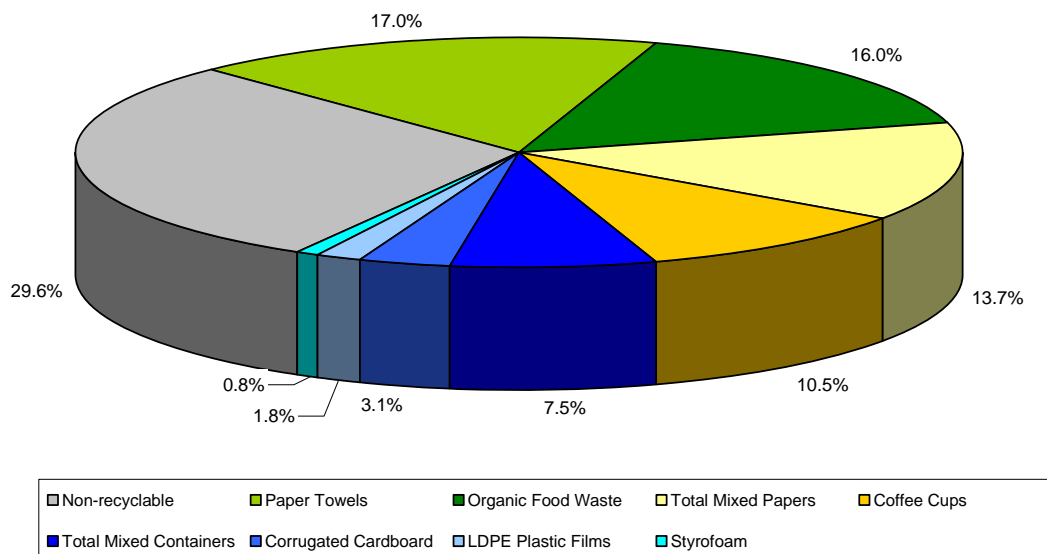
Figure 15: Marilyn Walker 2018 Trash Composition Summary



3.3.13 EARP Residence

Figure 16 summarizes the trash composition determined at EARP Residence in 2018.

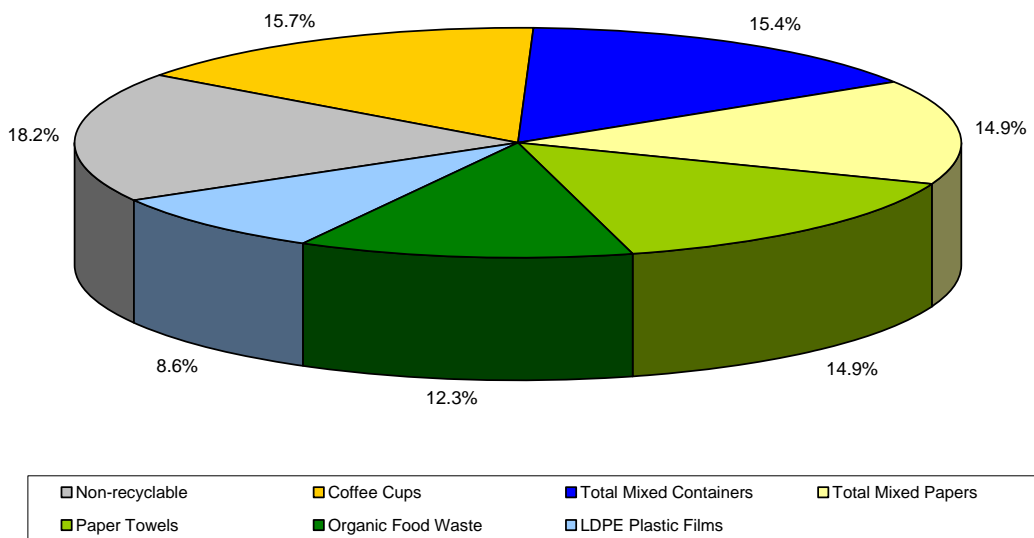
Figure 16: EARP Residence 2018 Trash Composition Summary



3.3.14 International Centre

Figure 17 summarizes the trash composition determined at the International Centre from the fall 2018 waste audit sample.

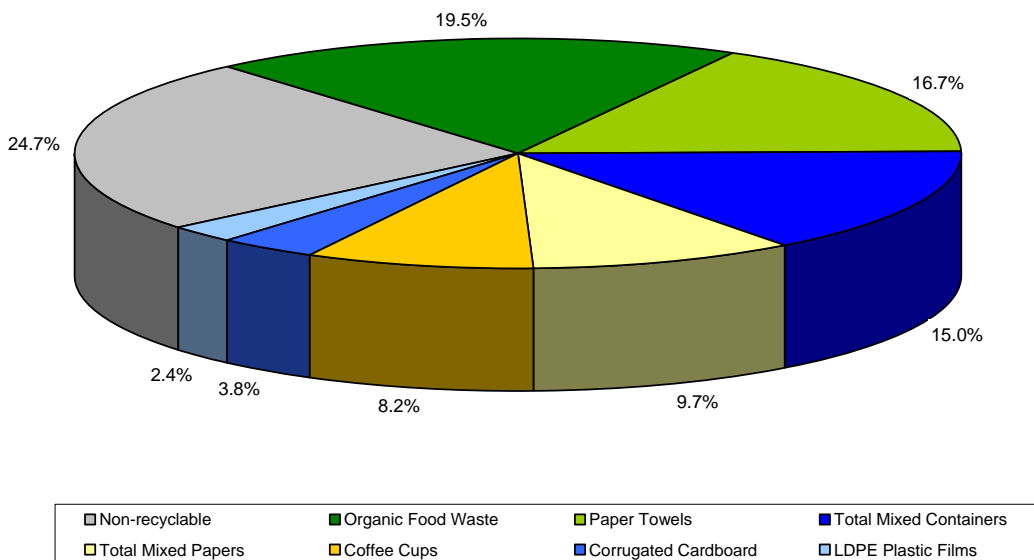
Figure 17: International Centre 2018 Trash Composition Summary



3.3.15 Quarryview Residence N

Figure 18 summarizes the trash composition determined at Quarryview Residence N in 2018.

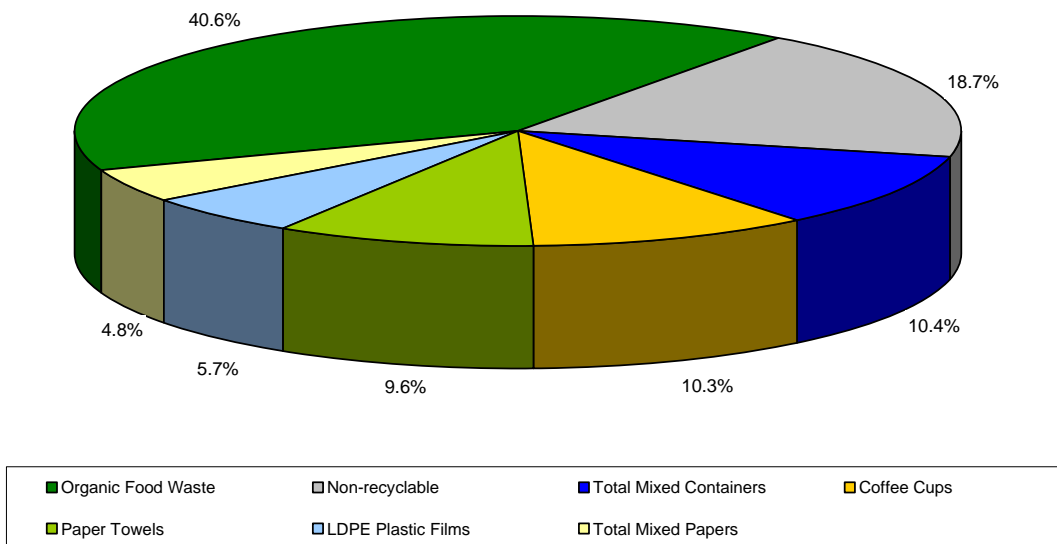
Figure 18: Quarryview Residence N 2018 Trash Composition Summary



3.3.16 Taro

Figure 19 summarizes the trash composition determined at Taro in 2018.

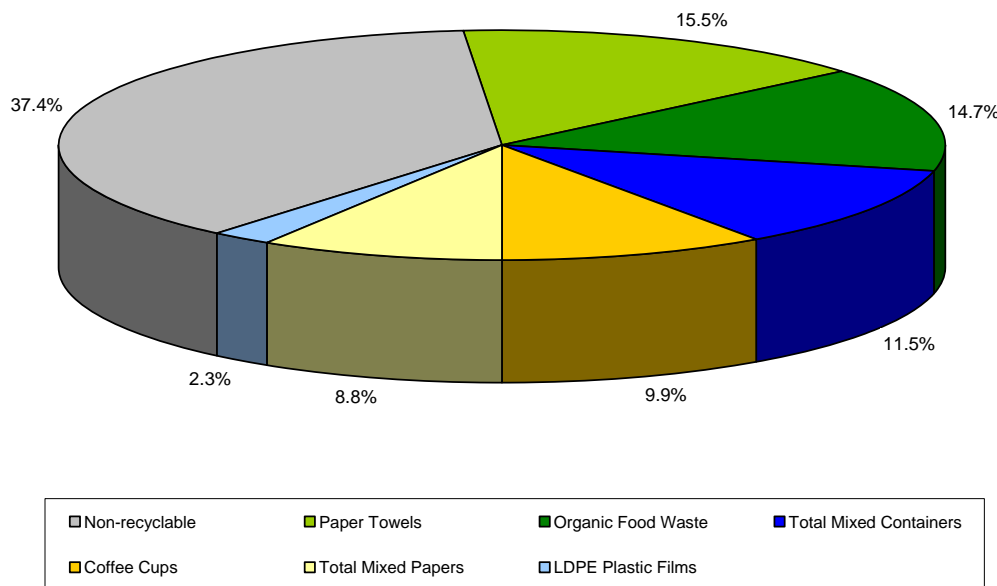
Figure 19: Taro 2018 Trash Composition Summary



3.3.17 Quarryview Residence S

Figure 20 summarizes the trash composition determined at Quarryview Residence S in 2018.

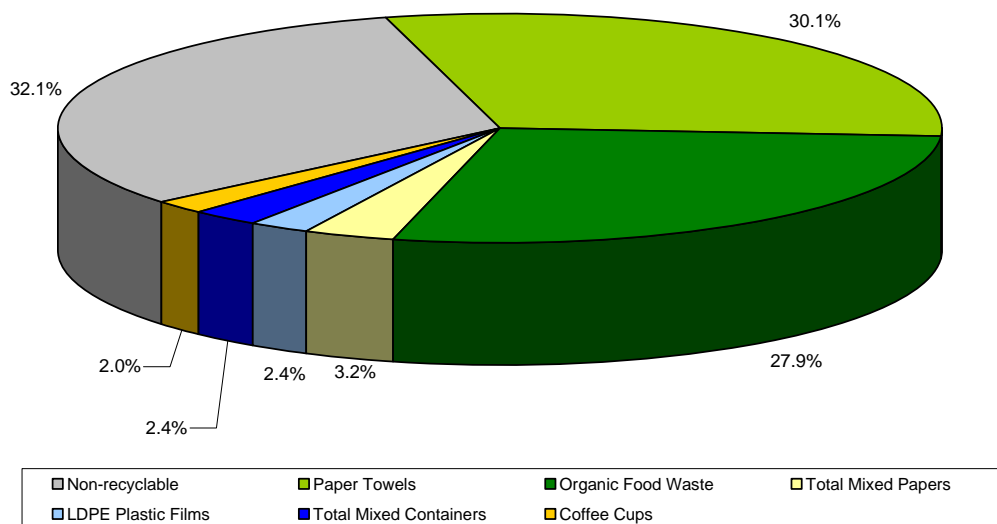
Figure 20: Quarryview Residence S 2018 Trash Composition Summary



3.3.18 Daycare

Figure 21 summarizes the trash composition determined at the Daycare in 2018.

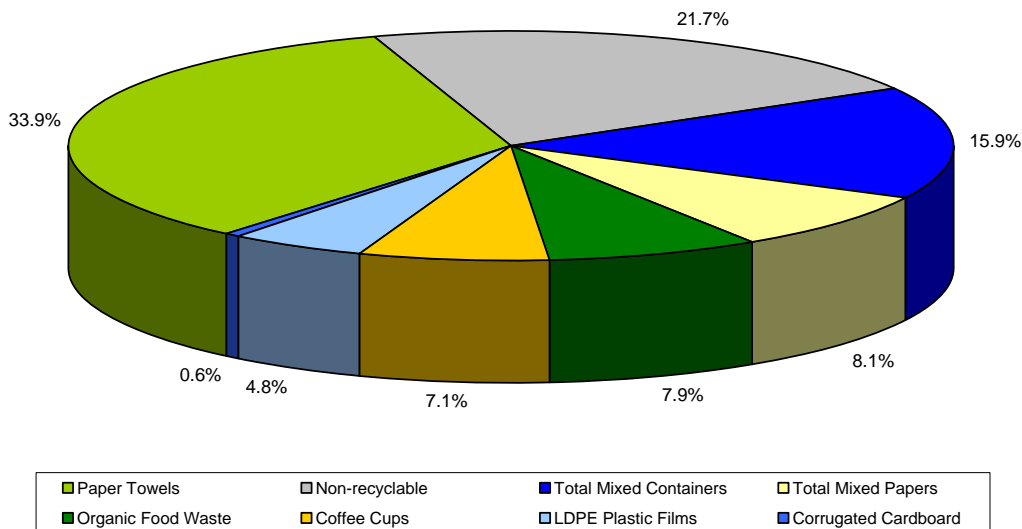
Figure 21: Daycare 2018 Trash Composition Summary



3.3.19 Hamilton Campus

Figure 22 summarizes the trash composition determined at the Hamilton campus in 2018.

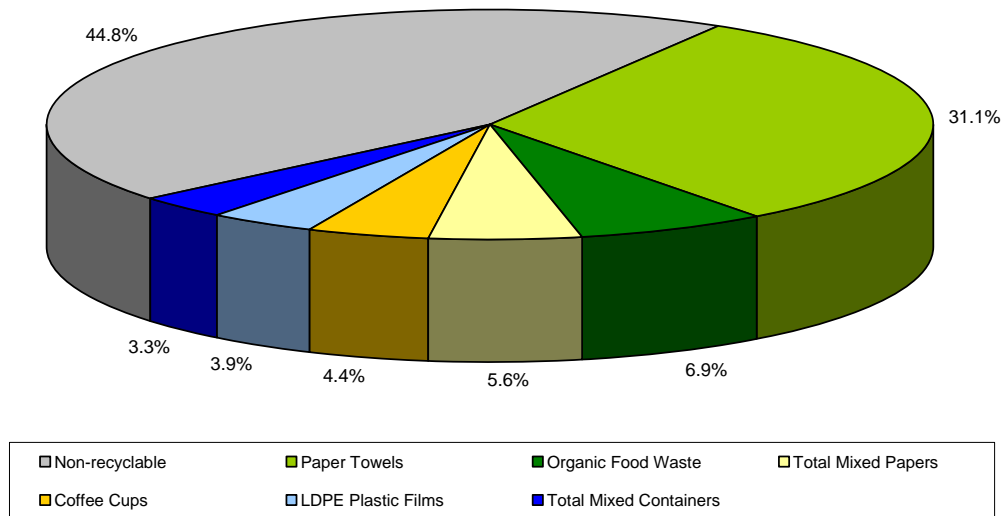
Figure 22: Hamilton Campus 2018 Trash Composition Summary



3.3.20 Central Utility Building

Figure 23 summarizes the trash composition determined at the CUB in 2018.

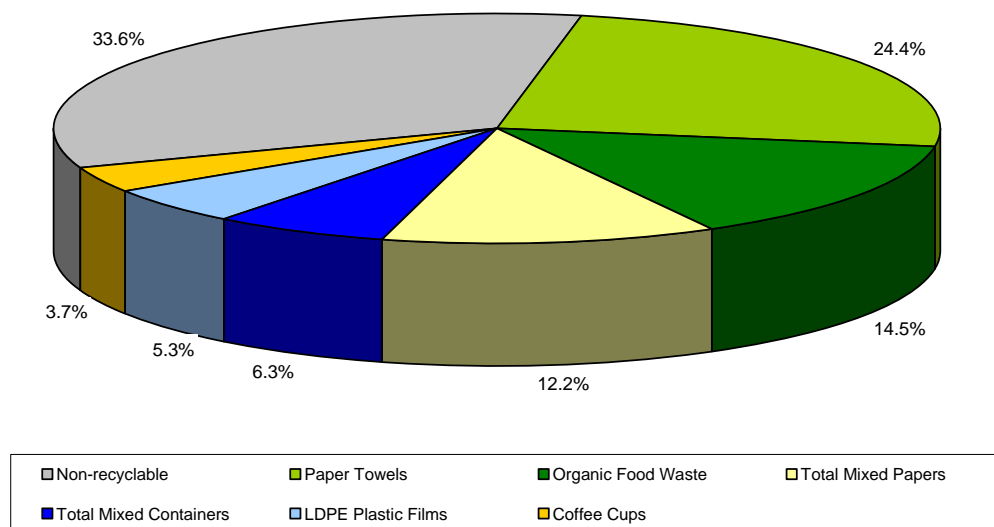
Figure 23: CUB 2018 Trash Composition Summary



3.3.21 BRIC

Figure 24 summarizes the trash composition determined at the BRIC in 2018.

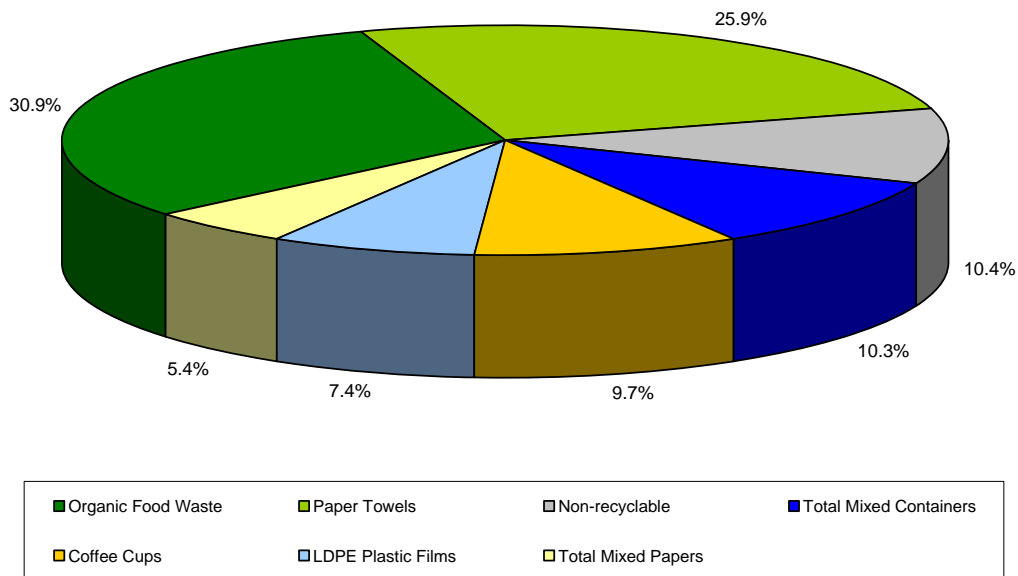
Figure 24: BRIC 2018 Trash Composition Summary



3.3.22 Kenmore Centre – Harrison Hall

Figure 25 summarizes the trash composition determined at Kenmore Centre – Harrison Hall in 2018.

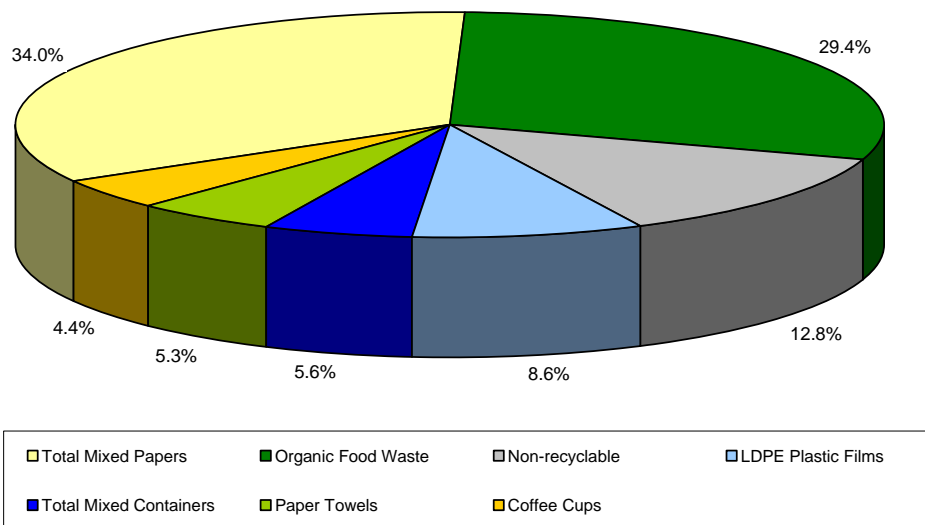
Figure 25: Kenmore Centre – Harrison Hall 2018 Trash Composition Summary



3.3.23 Alpie’s Trough

Figure 26 summarizes the trash composition determined at Alpie’s Trough in 2018.

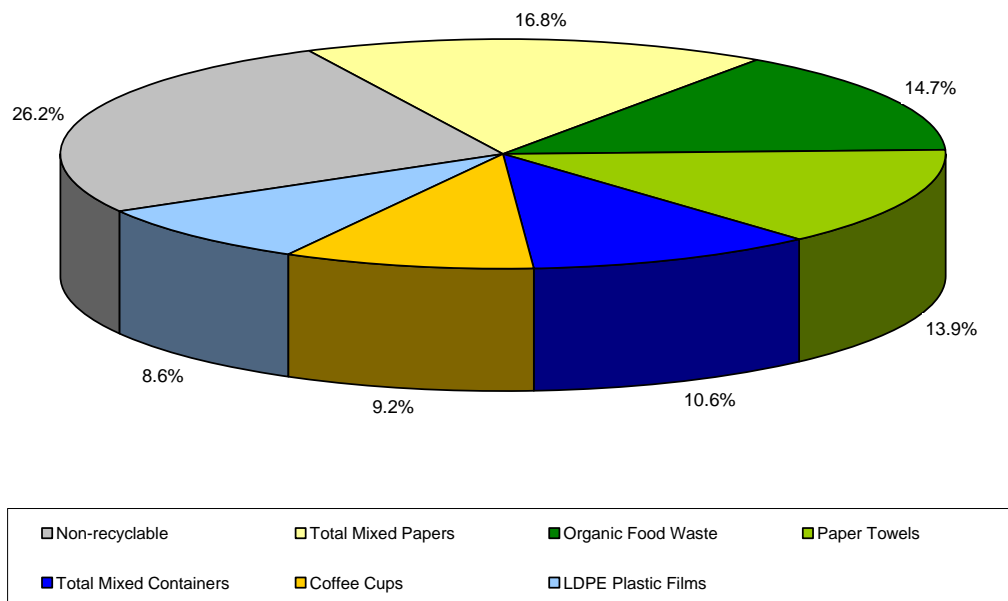
Figure 26: Alpie’s Trough 2018 Trash Composition Summary



3.3.24 East Academic

Figure 27 summarizes the trash composition determined at the East Academic Building from the 2018 waste audit sample.

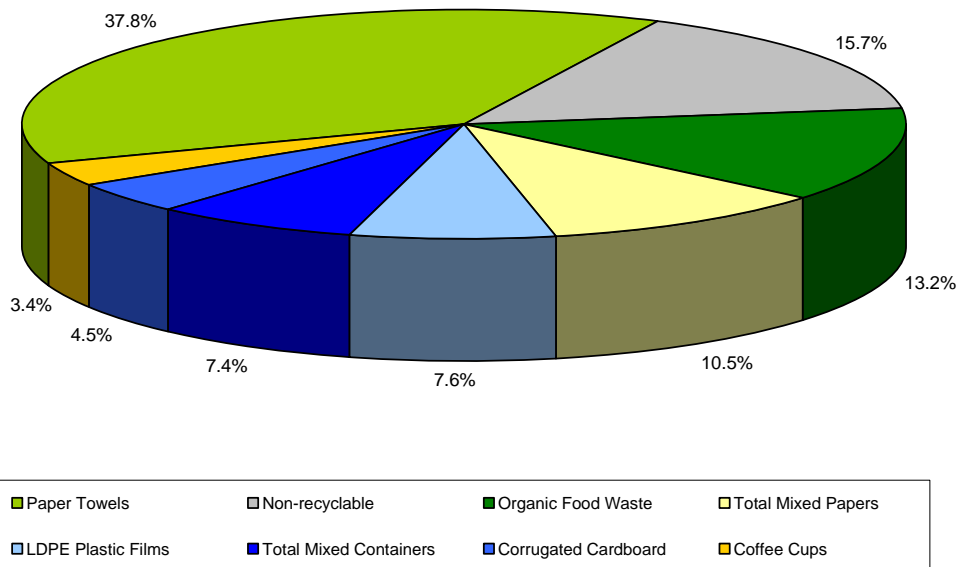
Figure 27: East Academic 2018 Trash Composition Summary



3.3.25 DeCew Café

Figure 28 summarizes the trash composition determined at the DeCew Café in 2018.

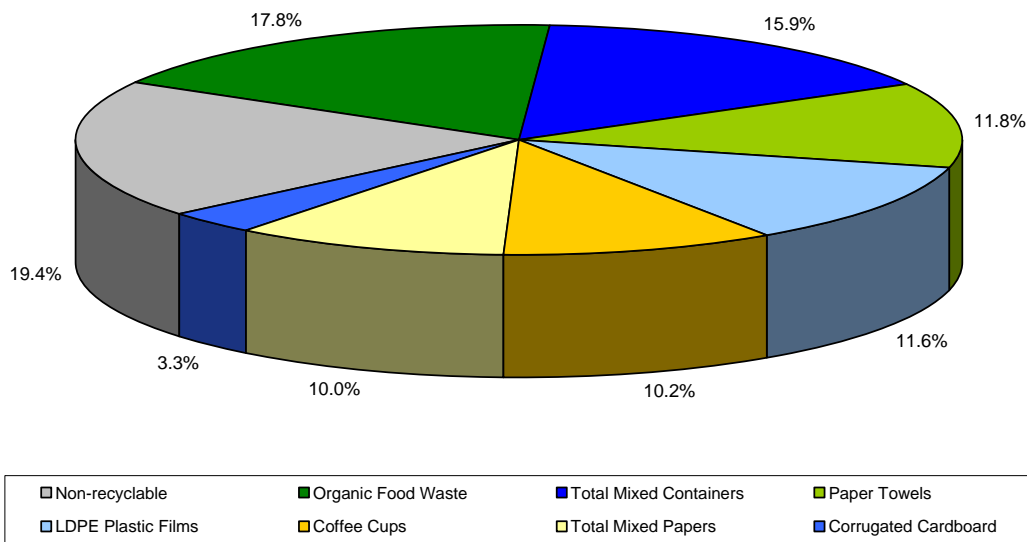
Figure 28: DeCew Café 2018 Trash Composition Summary



3.3.26 573A Glenridge

Figure 29 summarizes the trash composition determined at 573A Glenridge based on the 2018 fall waste audit sample.

Figure 29: 573A Glenridge 2018 Trash Composition Summary



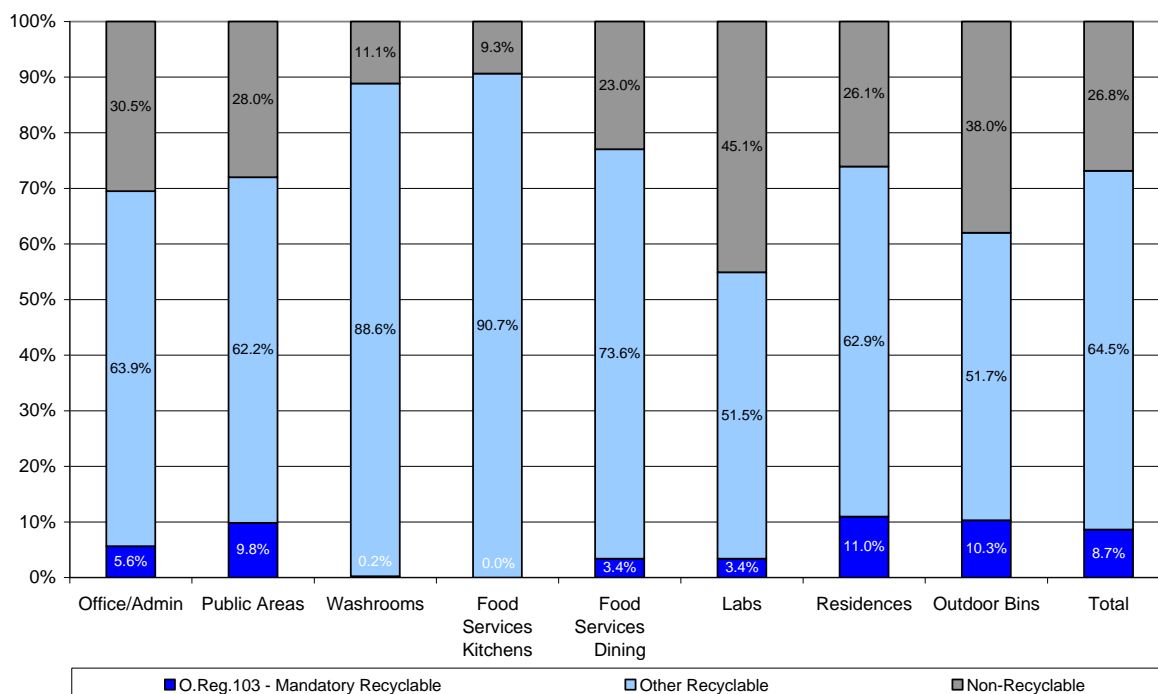
3.4 Percentage of Recyclables in Trash

O.Reg. 103/94 requires that “educational institutions” source separate the following materials (at a minimum):

- Aluminum food or beverage cans (including cans made primarily of aluminum);
- Cardboard (corrugated);
- Fine paper;
- Glass bottles and jars for food or beverages;
- Newsprint; and
- Steel food or beverage cans (including cans made primarily of steel).

Figure 30 summarizes the quantity of these “mandatory” recyclable materials compared to “other recyclable” and “non-recyclable” materials found in the 2018 waste audit samples.

Figure 30: Percentage of Recyclable in Trash



The data suggests that BrockU has a low ‘mandatory’ recyclable content of 8.7% in the combined garbage of the university. The main ‘mandatory’ recyclable materials were cardboard, fine papers, newsprint and aluminum cans. ‘Other Recyclables’ represented 64.5% of the sample and consisted mainly of organics and paper towels. Non-recyclables represented approximately 26.8% of the sample.

3.5 Recyclable Material Distribution

Samples of source separated recyclables were collected from the following functional areas within campus buildings during the fall waste audit period:

- Office / Administrative Areas
- Public Areas
- Washrooms
- Food Service – Kitchens
- Food Service – Dining Areas
- Food Service – Tenant Areas
- Self-Contained Residences
- Outdoor Bins

Table 6 ranks recyclables generated per building functional area based on the audit results.

Table 6: 2017 Waste Audit – Recyclables Generated per Functional Area

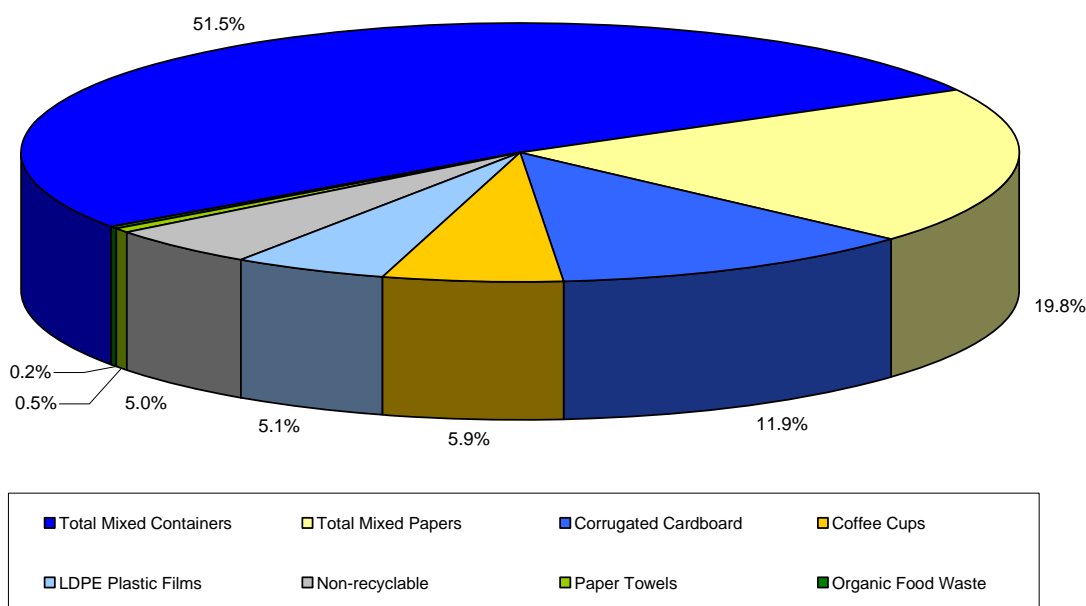
Functional Area	24-h Sample Quantity kg	Percentage %
Public Areas	105.86	48.7%
Food Services - Dining	46.17	21.2%
Residences	39.66	18.2%
Outdoor Bins	24.00	11.0%
Office & Admin	1.70	0.8%
Washrooms	0.00	0.0%
Food Services - Kitchens	0.00	0.0%
Labs	0.00	0.0%
Total	217.39	100.0%

Based on the 24-hr samples collected for the waste audit, Public Areas, Food Service Dining Areas and Residences generated approximately 88% of the collected recyclables. Please note however that these results reflect only traditional recyclables collected at recycling stations, and they do not include items such as cardboard, confidential papers, organic food wastes, scrap metals, etc which could change the percent distribution.

3.6 Recyclable Material Composition

The total weight of recyclables collected and sorted for the audit was approximately 217.39 kg. Figure 31 summarizes the overall composition of the audited sample. The recyclable sample had a contamination rate of 11.1%, which consisted mainly of non-recyclable materials, organics and coffee cups.

Figure 31: Recyclable Material Composition Summary



Summary tables for each building per waste generation functional area, including waste composition, weights and percentages, are included in Appendix B. Please note that the overall sample size collected of source separated recyclables compared to trash was quite low, representing approximately 13% of the entire sample. This suggests that extrapolating the audit findings over a one-year period based on operating days will underestimate the quantity of recyclables generated on campus. Based on a review of number of bins, bin size and service frequency, it was estimated that the quantity of traditional recyclables (i.e. cardboard, mixed papers and containers) collected over a year period was more than the amount of trash generated over a typical year.

4 Diversion Programs & Waste Systems

4.1 Waste Diversion Programs

Recycling programs have been initiated at Brock U to recycle/reuse/compost a wide range of materials as described below.

Cardboard: Cardboard recycling is provided across campus. Cardboard boxes are flattened and placed in large receptacles or smaller totes. Cardboard is brought by Brock U staff to their on-site baler. Cardboard bales are serviced by Cascades. Some front-end service is also provided by Modern.

Mixed Containers: Mixed containers include assorted plastics food and beverage containers (PET, HDPE, LDPE, PP, and PS), aluminum and metal cans, glass food and beverage containers, and aseptic containers (gable top containers, tetra paks, etc). Mixed containers are collected throughout campus in dedicated recycle depots, primarily concentrated in high waste generating areas. Collected materials are disposed into 95 gallon totes by Brock U staff. Totes are serviced up to three times per week by Niagara Recycling.

Mixed Papers: Mixed papers include a range of items such items as (but not limited to) newspapers, fine papers, envelopes, magazines, brochures, boxboard, packing paper, shipping/receiving supplies, paper bags and other clean food paper products. Mixed papers are collected throughout campus in dedicated recycle depots, primarily concentrated in high waste generating areas. Collected materials are disposed into 95 gallon totes by Brock U staff. Totes are serviced up to three times per week by Niagara Recycling.

Confidential Papers: Confidential papers are collected mainly in office/administrative areas in secure consoles or totes. Consoles were serviced by private contractor on a weekly basis. All shredded materials were recycled.

Scrap Metals: Recyclable ferrous metals are collected at the CUB by Brock U staff. Larger pieces of metal recovered through the repair and recovery of broken and old equipment are deposited in a lugger box. Scrap metal recycling service is provided by Sam Adelstein and Co and Ken's Salvage Co. Ltd.

Organics: Organic based food waste is collected at the following locations for composting: Alumni Center, Cairns, CUB, DeCew Dock, Inniskillen Hall, International Centre, Lowenberger, Tower Dock and Walker Complex. Organic waste is mainly generated from the preparation of food. Scrap materials are placed in 32 gallon or 64 gallon totes provided by Davidson Environmental. Organic waste from various food vendors is also placed in receptacles at the back of the Tower complex. Davidson Environmental services the organic bins up to six days per week. An organics pulping unit is installed in the newly renovated market cafeteria in the Tower Complex.

Coffee Cups: Coffee cups are collected on campus in specified recycle containers. Brock U added new dedicated coffee cup recycle bins in 2016, bringing the total on campus to eight. Bagged coffee cups are collected by Davidson Environmental on a weekly basis. The coffee cups are to be shredded and blended into the composting organic materials, acting as a bulking agent.

Oil & Grease: Oils & greases are collected from food service areas across campus, and stored in dedicated containers. Service is provided by Rothsay as required.

Bulbs & Ballasts: Fluorescent bulbs and ballasts are collected across campus and stored in dedicated totes. Service is provided by Aevitas as required.

Electronics/eWastes: Electronic wastes are collected across campus and stored in dedicated locations. Service was provided by Greentec as required.

Batteries: Batteries are collected in small dedicated containers across campus. Collected batteries are stored in dedicated totes. Service is provided by Raw Materials Company Inc as required.

Yard Wastes: Yard wastes are collected across campus during the various seasons of the year. Approximately six (6) 40-yd roll-off bins of loosely packed yard wastes are recycled/composted per year. Additional yard wastes were managed by Modern in 2018.

Wood Pallets: Wood pallets/skids are returned to suppliers or removed for reuse. Based on discussions with Brock U, pallets are removed on a weekly basis.

Printer Toner Cartridges: Brock U's Printing Services returns all empty toner bottles from the new MFD (Multi Functional Devices) to Xerox for recycling. It is estimated that approximately 200 bottles per year are recycled. Printer toner cartridges are collected from various areas across campus and sent to private contractor to be processed.

Used Furniture: Brock U collected and stored used furniture for on-campus reuse or for donations to local charities. In 2018, approximately eight (8) to ten (10) 5-ton cube trucks were used to collect used furniture.

Amber Bottles: Labs on campus have implemented an in-house reuse program. The quantity of amber bottles collected for reuse was unknown.

Scrap Woods: A scrap wood program was implemented on-site in 2013 at the CUB. Due to the infrequent use of the bin, the service was cancelled in 2014.

LCBO/Beer Store Returns: Brock U returns glass beer, wine and spirit bottles via the LCBO/Beer Store return program.

Water Bottle Filling Stations: Brock U added new water bottle refilling stations on campus. These stations help the university reduce the amount of plastic water bottles used on campus. The program kept approximately 930,000 water bottles from landfill in 2018. Assuming a 500 ml water bottle weighs approximately 10 g, it can be estimated that the water bottle refilling stations reduced a total of approximately 9.3 metric tonnes of plastic from landfill.

Textbook Collection: In 2018, BrockU collected numerous textbooks, all of which were donated, repurposed and/or recycled.

Table 7 summarizes the annual amount of waste diverted from landfills due to waste diversion programs implemented at Brock U.

Table 7: 2017 Waste Audit - Annualized Waste Diversion Summary

Waste Material	Reused or Recycled	Total Diversion Metric Tonnes
Cardboard	Recycled	76.51
Mixed Recycling	Recycled	185.41
Mixed Containers	Recycled	164.58
Mixed Papers	Recycled	414.00
Confidential Papers	Recycled	50.63
Scrap Metals	Recycled	60.15
Organics	Recycled/Composted	275.82
Coffee Cups	Recycled/Composted	0.86
Oil & Grease	Recycled	10.05
Bulbs & Ballasts	Recycled	1.76
Electronic wastes	Recycled	19.14
Batteries	Recycled	1.17
Yard Wastes	Recycled/Composted	100.60
Wood Pallets	Reused	8.10
Printer Toners	Reused	1.23
Used Furniture/Equipment	Reused	22.92
Amber Bottles (Labs)	Reused	unknown
LCBO/Beer Bottle Returns	Reused	44.77
Text Books	Reused/Recycled	12.46
Clothing Donations	Reused	0.24
Water Bottle Filling Stations	Reduced	9.30
Total Waste Material Diverted		1459.70

Therefore, the total amount of waste material diverted from landfill in 2018 was approximately 1460 metric tonnes. Evidence of annual quantity data obtained from Brock U and/or service providers is provided in Appendix A. Waste diversion programs implemented at Brock U exceed the requirements of O.Reg.103/94 for educational institutions.

4.2 Waste Disposal Systems

Regular solid non-hazardous waste is collected across campus by Brock U staff and placed in either front-end bins or compactors located in designated waste handling areas. A summary of front-end bins and compactors is provided in Appendix A. Modern Corporation is responsible for the collection of waste weekly depending on the waste generating area. The total quantity of solid non-hazardous waste disposed to landfill in 2018 was estimated to be approximately 530.7 metric tonnes.

Please note that the Modern garbage summary attached in Appendix A uses an assumed waste density of 60 kg/yd³. This value was replaced with Brock U's site specific density of 26.53 kg/yd³ that was determined in 2014.

In 2014, Brock U reduced front-end bin pick-up frequency and/or bin size at a number of locations on campus. In addition, Brock U conducted two density tests with Modern to better estimate the density of garbage. The tests were done in April and during the Summer of 2014. These were done by conducting a garbage collection run at the university, noting what bins were picked up, and knowing the initial and final weight of the collection truck. The densities were combined with 2013 density study results for an average of 26.53 kg/yd³. Since not all garbage bins are 100% full for each collection run, the calculated average density of 26.53 kg/yd³ includes a utilization factor to adjust for bins not completely full. The densities found from the various density studies are consistent with other institutions that have implemented recycling programs similar to Brock U and achieve a high waste diversion rate. It is recommended that Brock U conduct a follow-up waste density test in 2019 to confirm the campus garbage density determined in 2014.

In addition to front-end service, Brock U has two (2) compactors located on campus. These include one (1) 35-yd³ unit at Schmon Tower and one (1) 8-yd³ unit at Central Receiving. The 35-yd³ compactor is weighed prior to disposal. Weights of the Central Receiving compactor was estimated based on the number of pick-ups, campus garbage density and a 3:1 compaction ratio.

5 Performance Metrics

5.1 Waste Diversion Rate

Waste Diversion Rate is the percentage of waste materials that a facility diverts from landfill due to reduce, reuse and recycling (i.e. 3Rs) initiatives versus the total amount of waste generated (i.e. 3Rs plus disposed). According to the MECP, Waste Diversion Rate is calculated as follows:

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

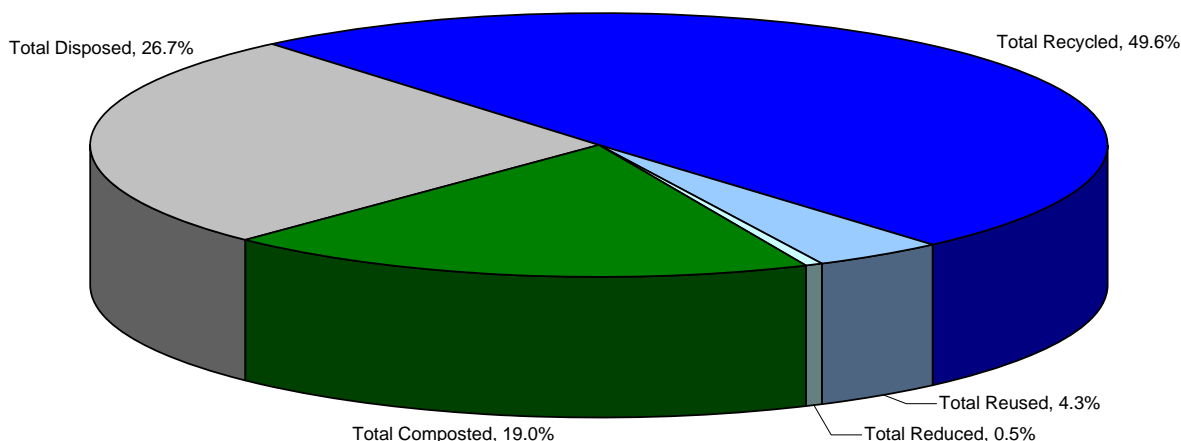
Based on the total annual amount of waste generated and materials reduced, reused and recycled, the 2018 waste diversion rate through existing programs at Brock U was approximately 73.3%.

Table 8 and Figure 32 summarize the quantities of wastes reduced, reused, recycled and disposed. Brock U's 2018 waste diversion rate exceeds the MECP provincial objective of 60% waste diversion.

Table 8: Annualized Quantities of Materials Reduced, Reused, Recycled and Disposed

Material	Total Waste	
	Metric Tonnes	Percent
Disposed to Landfill	530.66	26.7%
Materials Reduced	9.30	0.5%
Materials Reused	85.17	4.3%
Materials Recycled	987.94	49.6%
Materials Composted	377.28	19.0%
Total Waste Generated	1990.35	100.0%
WASTE DIVERSION RATE		73.3%

Figure 32: 2018 Waste Audit Summary



5.2 Capture Rate

Capture rate is the proportion of divertible waste materials which are successfully diverted from disposal compared to the total amount of the divertible waste materials generated. According to the Recycling Council of Ontario, Capture Rate is calculated as follows:

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

Thus, capture rate assists in determining the effectiveness of recycling programs. Table 9 summarizes the capture rate for the main divertible materials at Brock U.

Table 9: Capture Rate Summary

Divertible Material	Annualized Material Generated Metric Tonnes	Annualized 3Rs Quantity Captured Metric Tonnes	Capture Rate Percent
Cardboard	88.4	76.5	86.6%
Mixed Containers	295.4	217.3	73.6%
Mixed Papers	603.9	546.7	90.5%
Confidential Papers	50.6	50.6	100.0%
Scrap Metals	60.7	60.1	99.0%
Organics	364.1	275.8	75.8%
Coffee Cups	41.8	0.9	2.1%
Oil & Grease	10.0	10.0	100.0%
Bulbs & Ballasts	1.9	1.8	91.2%
Electronic wastes	20.7	19.1	92.6%
Batteries	1.5	1.2	77.1%
Yard Wastes	100.6	100.6	100.0%
Wood Pallets	8.1	8.1	100.0%
Printer Toners	1.2	1.2	100.0%
Used Furniture/Equipment	23.2	23.2	100.0%
LCBO/Beer Bottle Returns	46.4	44.8	96.4%
Text Books	12.5	12.5	100.0%
Water Bottle Filling Stations	9.3	9.3	100.0%
Overall Facility	1740.4	1459.7	83.9%

Capture rates of most materials are high ranging from approximately 76% to 100%. Coffee cups had the only value less than 76%, being approximately 2.1%. The overall capture rate of all recyclables on campus is considered to be high at approximately 83.9%.

5.3 Year over Year Change in Waste Generation

Waste diversion rate and capture rate do not always demonstrate how effective a site's 3R programs are operating. This is due to the continual change of many important factors involved in waste and recyclable material generation on campus, such as number of students enrolled, floor area of buildings, etc. As student numbers change or more buildings are added to the campus, quantities of waste and recyclables change making it difficult to have a direct comparison of data between years. In 2012, Brock U start tracking 'Year over Year' changes in the amount of wastes disposed and/or materials recycled per standard unit. This allows direct comparison of data from year to year, thus assisting the university in gaining an understanding of the effectiveness of their 3Rs programs. For Brock U, the most applicable standard unit is Full-time equivalent students, or FTE.

5.3.1 Year-over-Year Change in 3Rs Quantities

The 'Year-over-Year Change in 3Rs Quantities' is the indicator of the amount of materials diverted from disposal through reduce, reuse and/or recycle activities per FTE compared to previous data.

Table 10 summarizes the results for the 2018 year compared to 2017, 2016, 2015, 2014, 2013, 2012 and 2011. A positive year-over-year change indicates 3Rs programs are improving over time.

Table 10: Yr-over-Yr Change in 3Rs Quantities

Period	Total Materials Reduced, Reused Recycled (MT)	FTE	Annual 3R Quantity (kg/FTE)	Yr-over-Yr Change in 3Rs Quantity (kg)
2011	1267.8	15905.1	79.7	--
2012	1316.7	16386.9	80.4	+0.7
2013	1266.3	16714.8	75.8	-4.6
2014	1237.1	17139.4	72.2	-3.6
2015	1392.4	17217	80.9	+8.7
2016	1383.1	16957	81.9	+1.0
2017	1372.1	17215.8	79.7	-2.2
2018	1459.7	17419.5	83.8	+4.1

5.3.2 Year-over-Year Change in Trash Disposed

The 'Year over Year Change in Trash Disposed' is the indicator of the amount of reduction in waste materials disposed to landfill due to reduction, reuse and recycling activities on campus. Table 11 summarizes the results for the 2018 year compared to 2017, 2016, 2015, 2014, 2013, 2012 and 2011. A reduction in the year over year value will indicate the university is continually reducing wastes disposed to landfill.

Table 11: Yr-over-Yr Change in Trash Disposed

Period	Total Materials Disposed to Landfill (MT)	FTE	Annual Disposed Quantity (kg/FTE)	Yr-over-Yr Change in Disposed Quantity (kg)
2011	470.0	15905.1	29.6	--
2012	868.2	16386.9	52.9	+23.3
2013	673.7	16714.8	40.3	-12.6
2014	643.5	17139.4	37.5	-2.8
2015	640.3	17217	37.2	-0.3
2016	674.9	16957	39.8	+2.6
2017	538.5	17215.8	31.3	-8.5
2018	530.7	17419.5	30.5	-0.8

6 Changes at Brock U in 2018

In 2018, Brock U continued to improve all existing waste diversion programs implemented on-site.

7 Waste Audit Summary & Waste Reduction Work Plan

Refer to Appendix C and Appendix D for the Waste Audit Summary and the Waste Reduction Work Plan respectively. The last page of each set of forms in the appendices need to be signed by an authorized person at the University.

According to O.Reg. 102/94, the Waste Reduction Work Plan (Appendix D) or a summary of the plan must be posted at the University in a place where staff/students can review it. If a summary is posted, the entire Work Plan should also be made available for review by any staff/student upon request.

8 Conclusions & Recommendations

Based on the results of the solid non-hazardous waste audit conducted for Brock U, the following conclusions can be made. Recommendations presented below are intended to assist Brock U in maximizing their waste diversion potential.

- In 2018, Brock U disposed of approximately 530.7 tonnes of solid waste in landfills. Approximately 1459.7 tonnes of waste materials were diverted through existing reduce, reuse and recycling activities. This represents a waste diversion rate of approximately 73.3%. The provincial objective is 60% waste diversion.
- Brock U maintains diversion programs for cardboard, mixed containers, mixed papers, confidential papers, scrap metals, organics, coffee cups, oil and grease, bulbs and ballasts, electronic wastes, batteries, yard wastes, wood pallets, printer toners, used furniture/equipment donations, amber bottles (labs), LCBO/Beer Store returns, clothing donations, textbook reuse/recycling and reductions due to water bottle refilling installations.
- Waste diversion programs implemented at Brock U exceed the source separation requirements of O.Reg.103/94 for educational institutions.
- Based on the results of the 2018 waste audit, Schmon Tower, North Decew Residence, Lowenberger, MacKenzie Chown, Village, Walker West and Plaza/Bookstore were the most significant generators of waste on campus, accounting for approximately 71% of the garbage stream.
- Public areas, self-contained residences, office areas and washrooms generated the most trash on campus, accounting for approximately 91% of the garbage stream.
- Brock U has a 'mandatory' recyclable content of 8.7% in the combined garbage of the university. The main 'mandatory' recyclable materials were cardboard, fine papers, newsprint and aluminum cans. 'Other Recyclables' represented 64.5% of the sample and consisted mainly of organics and paper towels. Non-recyclables represented approximately 26.8% of the sample.
- Capture rates of most materials are high ranging from approximately 76% to 100%. Coffee cups had the only value less than 76%, being approximately 2.1%. The overall capture rate of all recyclables on campus is considered to be high at approximately 83.9%.
- Based on the waste audit results, it was estimated that approximately 16.6% (or 88.3 tonnes annually) of solid waste disposed to landfill consisted of organic materials (i.e. food wastes). Organics were found in relatively high amounts in food service areas, office areas and

residences. An organics compost program exists at Brock U in some designated areas. The results suggest that improved and/or expanded collection systems, improved signage, program promotion and/or student/staff education programs may be required to improve the capture rate of this material. Organics are currently not a mandatory recyclable material per O.Reg.103/94.

- Based on the waste audit results, it was estimated that approximately 15.6% (or 83.0 tonnes annually) of solid waste disposed to landfill consisted of paper towels. Washrooms and labs generated the highest quantity of paper towels. Brock U may wish to investigate the feasibility of implementing a paper towel recycle program, or replacing paper towels in washrooms with reusable hand towels or hand dryers. Often, paper towels can be included with organic or cardboard recycle programs. Paper towels are currently not a mandatory recyclable per O.Reg.103/94.
- Based on the waste audit results, it was estimated that approximately 14.7% (or 78 tonnes annually) of solid waste disposed to landfill consisted of mixed containers (aluminum cans, glass jars, plastic bottles, tetra packs, milk cartons, etc). Residences, food service areas, outdoor bins and public areas generated the highest quantities of mixed containers. The most common types of materials found were various plastic bottles and gable top containers. A mixed container recycling program exists at Brock U. This data suggests that improved collection systems, labels, program promotion and/or student/staff education programs may be required to improve the capture rate of this material. Glass, steel and aluminum food and beverage containers are mandatory recyclables per O.Reg.103/94.
- Based on the waste audit results, it was estimated that approximately 10.8% (or 57 tonnes annually) of solid waste disposed to landfill consisted of mixed papers (fine papers, newsprint, boxboard, etc). Public areas, outdoor bins, residences and dining areas generated the highest quantity of mixed papers. The most common types of materials found were boxboard and non-mandatory recyclable paper fibres. A mixed paper recycling program exists at Brock U. This data suggests that improved collection systems, labels, program promotion and/or student/staff education programs may be required to improve the capture rate of this material. Fine paper and newsprint are mandatory recyclables per O.Reg.103/94.
- Based on the 24-hr recycling samples collected for the waste audit, Public Areas, Food Service Areas and Residences generated approximately 88% of the collected recyclables. The recyclable sample had a contamination rate of 11.1%, which consisted mainly of non-recyclable materials, organics and coffee cups.
- In 2018, Brock U generated 83.8 kg/FTE of recyclables which is 4.1 kg/FTE more than in 2017. This result suggests Brock U's waste diversion programs were more efficient in 2018 than 2017.
- In 2018, Brock U generated 30.5 kg/FTE of trash which is 0.8 kg/FTE less than in 2017. This result suggests Brock U's waste reduction programs were more efficient in 2018 than 2017.
- It is recommended that Brock U continue to conduct studies to verify the density of wastes disposed to landfill. This includes verification of the weight of the Central Shipping compactor loads.

- It is recommended that a study be conducted to verify mixed container and mixed paper tote weights as well as to conduct an inventory of bins on-campus. It is recommended that the total number of totes picked-up per week be verified.
- It is recommended that a study be conducted to verify organic tote weights as well to conduct an inventory of bins on-campus. It is recommended that the total number of totes picked-up per week be verified.
- It is recommended that Brock U conduct studies to add and improve reduction and reuse weights to improve the university's diversion rate. For example, reduction credits can include reduced coffee cup weight disposed to landfill due to the implementation of a reusable coffee mug program on campus or reduced paper weight due to double-sided photocopiers operating on campus.
- Continue to make use of multi-compartment containers (i.e. recycling depots) for waste collection and recycling as much as possible. Remove all "solitary" waste bins at the facility. We recommend only having waste bins that are attached to or close to multi-compartment recycling containers.
- It is recommended that signs be continually updated on all garbage and recycling bins to assist students/staff in sorting wastes easily and correctly. Signs should be easily visible and instructive, such as those having pictograms. Signs are a very effective method of increasing participation, reducing contamination and increasing capture rate.
- Ensure Brock U's Environmental Policy is clearly visible in all common areas throughout campus. Emphasize Brock U's commitment to environmental stewardship in its newsletters, brochures, annual reports and contracts. Regular newsletters promoting the school's waste reduction programs, goals and concerns will increase student/staff cooperation.
- Continue to increase awareness of current recycling programs through staff and student education programs. Such programs can include brief training programs as well as placement of posters in strategic locations around campus, and posting information regarding campus goals and recycling, reuse, and reduction rates at the school. A suggestion box and/or email address may be helpful in communicating student/staff concerns and suggestions when developing or changing existing diversion programs.
- It is important that all staff and students at Brock U be made aware of all available recycling programs. Brock U staff should provide easy access to contact information for questions and/or help regarding the various recycling programs. The recycling programs should have as much consistency as possible across campus.
- Throughout the year, waste should be collected in clear plastic garbage bags instead of black garbage bags. This practice allows cleaning staff to monitor waste collection, as well as to ensure that separated waste streams are disposed of in the correct containers/areas. Some of our clients find it beneficial to use clear bags that have a slight blue tint for use in recycling containers.
- Support and encourage the purchase and use of "environmentally friendly", reusable or recyclable materials and packaging, and/or those that contain recycled content.

- In order to be successful, the waste diversion program must have the full support of Brock U's management team.
- According to O.Reg. 102/94, the Waste Reduction Work Plan (Appendix D) or a summary of the plan must be posted at the facility in a place where it can be viewed. If a summary of the work plan is posted, the full Work Plan must be made available for review upon request by any of the university's staff or students.
- The waste audit report and waste reduction work plan must be retained on file for a minimum of five years.
- A waste audit report and waste reduction work plan must be conducted and updated annually.

Appendix A

Supporting Documentation

STUDENTS

Headcount (November 1, 2017)

	Undergraduate	Graduate	Total	Total %
Full-Time	14,767	1,381	16,148	86%
Part-Time	2,288	352	2,640	14%
	17,055	1733	18,788	
Male	7,344	584	7,928	42%
Female	9,593	1123	10,716	57%
Unknown/Another	118	26	144	1%

Origin of International Students (November 1, 2017)

	Undergraduate	Graduate	Total	Total %
Asia	965	534	1,499	74%
Europe	139	26	165	8%
Africa	160	40	200	10%
North America	25	10	35	2%
C&S Ame.&Carit	72	24	96	5%
Oceania	17	0	17	1%
Other	8	0	8	
	1,386	634	2,020	100%

Origin of New, Full-Time Bachelor/Professional (November 1, 2017)

Region	101s*	Other	Total
Niagara	23%	22%	23%
GTHA	41%	29%	39%
Rest of Ontario	35%	27%	33%
Rest of Canada	1%	6%	2%
Outside Canada	0%	17%	4%
	100%	100%	100%

*Direct entry from Secondary School

MTCU Performance Indicators (2007 Cohort)

Metric	Percentage
Employment Rate (6 Months)	91%
Employment Rate (2 Years)	96%
Graduation Rate	74%

OSAP STATISTICS

Academic Year	# of Applicants	Number Awarded	Success Rate	% of FT Students
2014-15	9,968	8,738	88%	55%
2015-16	9,702	8,963	92%	56%
2016-17	9,763	8,633	88%	43% (UG)
2017-18	11,781	10,023	85%	62%

LIBRARY HOLDINGS (2017)

Books and Government Publications (# vol.)	466,454
E-books (# titles)	328,359
E-journals (# titles)	59,257
Print Journals (# titles)	4,043
Microforms (# pieces)	182,099
Sound and Video Recordings (# titles)	51,939
Maps (# pieces incl. digital)	36,775
Air Photos (# pieces incl. digital)	25,148
	1,154,074

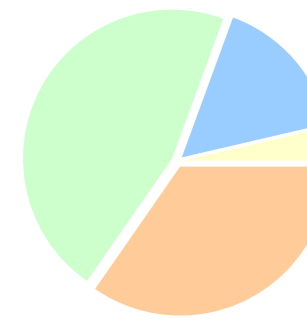
RESIDENCE BEDS (November 2017)

DeCew, Vallee & Earp, Lowenberger Residences	1,231
Village Residence (townhouses)	868
Quarry View Residence (townhouses)	290
Gateway Suites (suite style)	86
	2,475

FULL-TIME FACULTY (October 4, 2017)

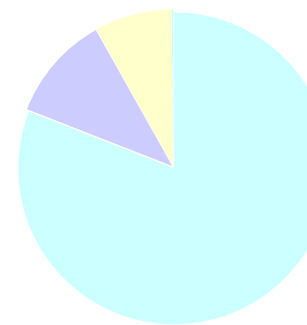
Rank Distribution

Professors*	200	35%
Associate Professors	265	46%
Assistant Professors	91	16%
Lecturers	21	4%
	577	100%



Type of Appointment

Tenure-Stream	530	92%
<i>Tenured</i>	467	81%
<i>Probationary</i>	63	11%
Limited Term/Instructional Ltd. Term	46	8%
Permanent	1	0.2%
	577	100%



Male/Female Distribution (October 4, 2017)

Faculty	Male		Female		Total
	#	%	#	%	
Applied Health	38	42%	53	58%	91
Business	66	69%	30	31%	96
Education	20	33%	40	67%	60
Humanities	48	51%	47	49%	95
Maths & Sciences	61	79%	16	21%	77
Social Sciences	81	51%	77	49%	158
Total	314	54%	263	46%	577

PROFESSIONAL LIBRARIANS (October 4, 2017)

	FT	Limited Term	Total	Total %
Female	11		11	58%
Male	7	1	8	42%
	18	1	19	100%

Ongoing STAFF (October 4, 2017)

	FT	PT	Term	Total	Total %
Administrative/Professional					
Female	339	24	37	400	63%
Male	208	3	22	233	37%
	547	27	59	633	67%
Support/Technical					
Female	135	18	2	155	85%
Male	24	2	1	27	15%
	159	20	3	182	19%
Maintenance and Trades					
Female	33			33	27%
Male	90			90	73%
	123			123	13%
TOTAL					
Female	507	42	39	588	63%
Male	322	5	23	350	37%
	829	47	62	938	100%

ALUMNI (November 2017)

Graduates

Total **97,383**

Degrees Awarded (2017)

	2016 %	2017 %
BA	1,479 42.5%	1,403 37.8%
BACC	193 5.5%	194 5.2%
BADMIN	1 0.0%	
BBA	348 10.0%	350 9.4%
BBE	24 0.7%	26 0.7%
BCB	2 0.1%	2 0.1%
BECE	22 0.6%	32 0.9%
BED	313 9.0%	547 14.7%
BEDAED	124 3.6%	114 3.1%
BEDNN	1 0.0%	
BEDS		2 0.1%
BKIN	125 3.6%	130 3.5%
BMUS	8 0.2%	5 0.1%
BPH	59 1.7%	49 1.3%
BPHEd	90 2.6%	80 2.2%
BRLS	88 2.5%	113 3.0%
BSC	377 10.8%	397 10.7%
BSCN	87 2.5%	100 2.7%
BSM	143 4.1%	166 4.5%
Total Bachelor's Degrees	3,484 100.0%	3,710 100.0%
MA	127 18.0%	132 16.9%
MACC	99 14.1%	104 13.3%
MADS	69 9.8%	90 11.5%
MBA	175 24.9%	187 24.0%
MBE	11 1.6%	10 1.3%
MED	124 17.6%	134 17.2%
MPH	0 0.0%	12 1.5%
MPK	0 0.0%	11 1.4%
MS	6 0.9%	8 1.0%
MSC	65 9.2%	64 8.2%
PHD	28 4.0%	28 3.6%
Total Graduate Degrees	704 100.0%	780 100.0%
Certificates	107	112

ADMISSIONS AND NEW REGISTRANTS (2017)

Full-Time Bachelor/Professional Degree-Seeking Applications

	Secondary School		Other		Total
	#	%	#	%	
2012	16,198	74%	5,748	26%	21,946
2013	16,911	74%	5,986	26%	22,897
2014	16,339	73%	6,186	27%	22,525
2015	15,077	71%	6,154	29%	21,231
2016	15,289	71%	6,378	29%	21,667
2017	15,429	69%	7,037	31%	22,466

New Full-Time Bachelor/Professional Degree-Seeking Registrants

	Secondary School		Other		Total
	#	%	#	%	
2012	3,087	77%	917	18%	4,004
2013	3,121	78%	872	17%	3,993
2014	2,972	77%	877	23%	3,849
2015	2,909	77%	877	23%	3,786
2016	2,698	76%	855	24%	3,553
2017	2,923	78%	826	22%	3,749

*Bachelor/Professional Degree Applications and Records only.

Other includes all other Application sources.

Registrant Data includes new Brock registrants in their first year of study as of November 1 of the reported year.

Full-time Equivalent (FTE) Enrolment Report 2017-18

Institutional Analysis & Planning | March 2017



Executive Summary

- Total FTE enrolment has increased from 17215.8 in 2015-16 to 17419.5 in 2017-2018, a **increase of 203.7** or **1.2%**.
 - Graduate FTE enrolment has increased from 1434.3 in 2015-16 to 1,557.90 in 2017-2018, a **increase of 123.6** FTEs or **4.0%**.
 - Undergraduate FTE enrolment has increased from 15781.5 in 2016-17 to 15861.6 in 2017-2018, a **increase of 80.1** or **0.05%**.
 - The proportion of graduate students as measured by the percentage of graduate FTE enrolment over total FTE enrollment has slightly **increased from 8.3%** in 2016-17 to **8.9%** in 2017-2018.
 - The total number of undergraduate course FCE (Full Course Equivalent) sections has increased from 1,723.5 in 2016-17 to 1,748.5 in 2017-2018, a increase of **25** or **1.5%**; Total number of undergraduate FCE Enrollment has increased from 78,907.3 in 2016-17 to 79,308.0 in 2017-2018, a **increase of 400.7** or **0.5%**.
 - Related to the above, the *Fall/Winter* average undergraduate class size has **kept the same as 61.9** in 2017-2018.
-

STUDENTS

Headcount (Nov. 1, 2016)				
	Undergraduate	Graduate	Total	Total %
Full-Time	14,838	1,336	16,174	86%
Part-Time	2,176	354	2,530	14%
	17,014	1,690	18,704	
Male	7,487	600	8,087	43%
Female	9,849	1090	10,939	58%

Origin of International Students (Fall 2016)

	Undergraduate	Graduate	Total	Total %
Asia	961	499	1,460	76%
Europe	109	31	140	7%
Africa	136	36	172	9%
North America	20	14	34	2%
C&S Ame.&Carib	76	13	89	5%
Oceania	17	1	18	1%
Other	5	1	6	0%
	1,324	595	1,919	100%

Origin of New FT Year I Undergraduates (Fall 2016)

Region	101s*	Other	Total
Niagara	26%	32%	28%
GTHA	43%	25%	37%
Rest of Ontario	30%	24%	28%
Rest of Canada	0%	5%	2%
Outside Canada	0%	14%	5%
Unknown	0%	0%	0%
	100%	100%	100%

*Direct entry from Secondary School

MAESD Performance Indicators (2006 Cohort)

Metric	Percentage
Employment Rate (6 Months)	90%
Employment Rate (2 Years)	95%
Graduation Rate	74%

OSAP STATISTICS

Academic Year	# of Applicants	Number Awarded	Success Rate	% of FT Students
2013-14	9,462	8,222	87%	51%
2014-15	9,968	8,738	88%	55%
2015-16	9,702	8,963	92%	55%
2016-17	9,763	8,633	88%	43% (UG)

LIBRARY HOLDINGS (2016)

Books and Government Publications (# vol.)	492,672
E-books (# titles)	344,084
E-journals (# titles)	54,478
Print Journals (# titles)	231
Microforms (# pieces)	182,078
Sound and Video Recordings (# titles)	19,924
Maps (# pieces incl. digital)	36,773
Air Photos (# pieces incl. digital)	24,265
	1,154,505

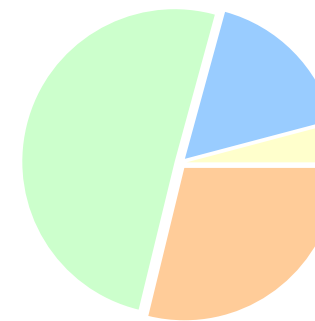
RESIDENCE BEDS (November 2016)

DeCew, Vallee & Earp, Lowenberger Residences	1,231
Village Residence (townhouses)	868
Quarry View Residence (townhouses)	290
Gateway Suites (suite style)	86
	2,475

FULL-TIME FACULTY (2016)

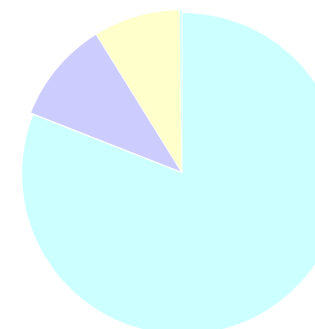
Rank Distribution

Professors	161	29%
Associate Professors	282	50%
Assistant Professors	93	17%
Lecturers	23	4%
	559	100%



Type of Appointment

Tenure-Stream	536	91%
Tenured	476	81%
Probationary	60	10%
Limited Term/Instructional Ltd. Term	51	9%
Permanent	1	0.2%
	588	100%



Male/Female Distribution

Faculty	Male		Female		Total
	#	%	#	%	
Applied Health Sci.	40	43%	53	57%	93
Business	64	66%	33	34%	97
Education	22	36%	39	64%	61
Humanities	48	49%	50	51%	98
Maths & Sciences	61	78%	17	22%	78
Social Sciences	87	54%	74	46%	161
Total	322	55%	266	45%	588

PROFESSIONAL LIBRARIANS (2016)

	FT	Limited Term	Total	Total %
Female	12		12	63%
Male	6	1	7	37%
	18	1	19	100%

Ongoing STAFF (Oct. 3, 2016)

	FT	PT	Term	Total	Total %
Administrative/Professional					
Female	307	28	35	370	62%
Male	203	3	23	229	38%
	510	31	58	599	65%
Support/Technical					
Female	142	23	4	169	85%
Male	25	3	1	29	15%
	167	26	5	198	21%
Maintenance and Trades					
Female	33			33	27%
Male	91			91	73%
	124			124	13%
TOTAL					
Female	482	51	39	572	62%
Male	319	6	24	349	38%
	801	57	63	921	100%

ALUMNI (November 2016)

Graduates			
Total			92,739
Degrees Awarded			
	2016	Cumulative	%
BA	1,219	40,996	45%
BEd	312	20,735	22%
BSc	309	8,774	9%
BBA/BAdmin	239	6,912	7%
BPhEd	80	4,331	5%
BRLS	42	2,643	3%
BAcc	169	2,540	3%
BSM	92	1,743	2%
BBE	20	1,037	1%
BKin	116	1,294	1.4%
BScN	87	1,098	1.2%
BTS	0	161	0.2%
BMus	7	111	0.1%
BPH	46	187	0%
BCB	2	42	0%
BECE	18	142	0%
Total Bachelor's Degrees	2,758	92,746	100%
MEd	41	5,080	47%
MA	56	1,842	17%
MSc	41	1,059	10%
MBA	128	1,254	12%
MAcc	51	796	7%
MADS	65	429	4%
MDiv/MTHE	9	135	1.2%
PhD	16	170	1.6%
MBE	7	94	0.9%
Total Graduate Degrees	414	10,859	100%
Certificates/Diplomas	90	2,473	

ADMISSIONS

Applications for Year I Undergraduate Full-Time Study

	Secondary School		Other		Total
	#	%	#	%	
2010	16,041	81%	3,698	19%	19,739
2011	15,440	83%	3,256	17%	18,696
2012	16,218	84%	2,985	16%	19,203
2013	16,891	84%	3,199	16%	20,090
2014	16,341	84%	3,074	16%	19,415
2015	15,082	83%	3,135	17%	18,217
2016	15,289	82%	3,292	18%	18,581

New Full-Time Degree-Seeking Year I Registrants (Sept.)

	Secondary School		Other		Total
	#	%	#	%	
2010	3,059	79%	797	21%	3,856
2011	3,061	78%	878	22%	3,939
2012	3,197	82%	721	18%	3,918
2013	3,197	83%	639	17%	3,836
2014	3,038	80%	746	20%	3,784
2015	3,056	84%	594	16%	3,650
2016	2,816	80%	686	20%	3,502

Teacher Education (Consecutive Program Only)

	Applicants		Registrants		Ratio
	#	% Change	#	% Change	
2010	2,300		500		22%
2011	3,217	40%	485	-3%	15%
2012	3,123	-3%	419	-14%	13%
2013	2,326	-26%	403	-4%	17%
2014	2,354	1%	358	-11%	15%
2015	1,294	-45%	270	-25%	21%
2016	1,212	-6%	203	-25%	17%

Brock University

Full-Time Equivalent (FTE) Enrolment
2016-2017



Office of Institutional Analysis and Planning
May, 2017

Executive Summary

- Total FTE enrolment has increased from 16,956.9 in 2015-16 to 17215.8 in 2016-17, a **increase of 258.9** or **1.5%**.
 - Graduate FTE enrolment has increased from 1,379.5 in 2015-16 to 1,434.3 in 2016-17, a **increase of 54.8** FTEs or **4.0%**.
 - Undergraduate FTE enrolment has increased from 15,577.4 in 2015-16 to 15,781.5 in 2016-17, a **increase of 204.1** or **1.3%**.
 - The proportion of graduate students as measured by the percentage of graduate FTE enrolment over total FTE enrollment has slightly **increased from 8.1%** in 2015-16 to **8.3%** in 2016-17.
 - The total number of undergraduate course FCE (Full Course Equivalent) sections has increased from 1,703.3 in 2015-16 to 1,723.5 in 2016-17, a increase of **20.2** or **1.2%**; Total number of undergraduate FCE Enrollment has increased from 77,887.13 in 2015-16 to 78,907.3 in 2016-17, a **increase of 1020.17** or **1.3%**.
 - Related to the above, the *Fall/Winter* average undergraduate class size has **decreased from 63.4** in 2015-16 to **61.9** in 2016-17, an average decrease of 1.5 students per class section.
-



All Students by Department/Centre/Program and Faculty

Fall 2014 and Fall 2015

DEPARTMENT/CENTRE/PROGRAM FACULTY	Fall, 2014			Fall, 2015			Difference		
	FT	PT	Total	FT	PT	Total	FT	PT	Total
Health Sciences	790.5	38.5	829.0	797.5	35.5	833.0	7.0	-3.0	4.0
Nursing	314.0	42.0	356.0	293.0	55.0	348.0	-21.0	13.0	-8.0
Kinesiology	997.5	57.0	1,054.5	976.0	48.0	1,024.0	-21.5	-9.0	-30.5
Recreation & Leisure Studies	394.0	48.0	442.0	440.0	25.0	465.0	46.0	-23.0	23.0
Sport Management	578.0	23.0	601.0	655.0	42.0	697.0	77.0	19.0	96.0
FAHS Graduate Program	121.0	21.0	142.0	132.0	16.0	148.0	11.0	-5.0	6.0
APPLIED HEALTH SCIENCES	3,195.0	229.5	3,424.5	3,293.5	221.5	3,515.0	98.5	-8.0	90.5
*Accounting	1,015.0	166.0	1,181.0	1,027.0	182.0	1,209.0	12.0	16.0	28.0
Business Administration	1,875.0	184.0	2,059.0	1,864.0	194.0	2,058.0	-11.0	10.0	-1.0
Other (Combined Majors, Certificates, MSc - Mgmt)	90.0	3.5	93.5	68.0	3.0	71.0	-22.0	-0.5	-22.5
BUSINESS	2,980.0	353.5	3,333.5	2,959.0	379.0	3,338.0	-21.0	25.5	4.5
Adult Edu. & Community Outreach	29.0	321.0	350.0	30.0	287.0	317.0	1.0	-34.0	-33.0
Continuing Studies (In-Service)	0.0	257.0	257.0	3.0	165.0	168.0	3.0	-92.0	-89.0
Graduate & Undergrad. Studies	275.0	189.0	464.0	232.0	180.5	412.5	-43.0	-8.5	-51.5
Tecumseh Centre for Aboriginal Rsch & Edu.	23.0	49.0	72.0	14.0	32.0	46.0	-9.0	-17.0	-26.0
Teacher Education	676.0	0.0	676.0	591.0	2.0	593.0	-85.0	2.0	-83.0
EDUCATION	1,003.0	816.0	1,819.0	870.0	666.5	1,536.5	-133.0	-149.5	-282.5
MA in Canadian American Studies	4.0	0.0	4.0	6.0	0.0	6.0	2.0	0.0	2.0
Canadian Studies	5.0	1.0	6.0	4.5	0.0	4.5	-0.5	-1.0	-1.5
Classics	65.5	6.5	72.0	54.5	4.0	58.5	-11.0	-2.5	-13.5
Studies in Arts and Cultures	13.0	4.0	17.0	14.0	2.0	16.0	1.0	-2.0	-1.0
Dramatic Arts	222.5	7.0	229.5	211.5	6.5	218.0	-11.0	-0.5	-11.5
English Language & Literature	314.0	20.0	334.0	310.5	20.0	330.5	-3.5	0.0	-3.5
Liberal Arts (former Great Books/Liberal Studies)	2.5	0.5	3.0	1.0	1.5	2.5	-1.5	1.0	-0.5
History	321.0	25.0	346.0	268.5	25.0	293.5	-52.5	0.0	-52.5
Interactive Arts and Sciences	70.5	9.0	79.5	89.0	5.0	94.0	18.5	-4.0	14.5
Medieval and Renaissance Studies	18.0	1.5	19.5	9.5	3.5	13.0	-8.5	2.0	-6.5
Modern Language, Literature & Cultures	115.5	8.5	124.0	122.5	10.0	132.5	7.0	1.5	8.5
Music	47.5	4.0	51.5	51.5	3.0	54.5	4.0	-1.0	3.0
Philosophy	83.0	8.0	91.0	76.5	10.5	87.0	-6.5	2.5	-4.0
Visual Arts	124.5	16.0	140.5	119.5	22.5	142.0	-5.0	6.5	1.5
General Studies (Humanities)	160.0	55.0	215.0	111.0	50.0	161.0	-49.0	-5.0	-54.0
Concurrent BA Integrated Studies/BEEd	320.0	1.0	321.0	290.0	4.0	294.0	-30.0	3.0	-27.0
PhD in Interdisciplinary Humanities	19.0	0.0	19.0	19.0	0.0	19.0	0.0	0.0	0.0
HUMANITIES	1,905.5	167.0	2,072.5	1,759.0	167.5	1,926.5	-146.5	0.5	-146.0
Biochemistry	80.0	6.0	86.0	92.0	6.0	98.0	12.0	0.0	12.0
Biological Sciences	378.5	31.0	409.5	418.5	23.0	441.5	40.0	-8.0	32.0
Biotechnology	64.0	3.0	67.0	70.0	3.0	73.0	6.0	0.0	6.0
Chemistry	103.0	6.5	109.5	103.5	10.0	113.5	0.5	3.5	4.0
Computer Science	228.0	45.0	273.0	258.5	45.0	303.5	30.5	0.0	30.5
Earth Sciences	84.0	8.5	92.5	75.0	11.0	86.0	-9.0	2.5	-6.5
Mathematics	174.5	10.0	184.5	162.5	11.5	174.0	-12.0	1.5	-10.5
Neuroscience (Joint with SOSOC)	62.5	3.0	65.5	62.5	4.0	66.5	0.0	1.0	1.0
Oenology & Viticulture	34.0	5.0	39.0	31.0	5.0	36.0	-3.0	0.0	-3.0
Physics	76.5	7.5	84.0	68.5	7.0	75.5	-8.0	-0.5	-8.5
Extra-Departmental (GENS, COCU, SCIE)	341.0	34.0	375.0	361.0	49.0	410.0	20.0	15.0	35.0
MATHEMATICS & SCIENCES	1,626.0	159.5	1,785.5	1,703.0	174.5	1,877.5	77.0	15.0	92.0
Applied Disability Studies	73.0	139.0	212.0	95.0	138.0	233.0	22.0	-1.0	21.0
Applied Linguistics	232.0	12.0	244.0	199.5	18.0	217.5	-32.5	6.0	-26.5
Business Economics	226.0	21.0	247.0	195.0	17.0	212.0	-31.0	-4.0	-35.0
Child and Youth Studies	858.0	22.5	880.5	883.5	23.0	906.5	25.5	0.5	26.0
Communications, Popular Culture and Film	676.0	40.0	716.0	674.5	38.0	712.5	-1.5	-2.0	-3.5
Economics	205.0	40.0	245.0	227.0	52.5	279.5	22.0	12.5	34.5
Geography	167.5	12.0	179.5	154.5	17.5	172.0	-13.0	5.5	-7.5
Labour Studies	86.0	10.5	96.5	89.5	18.5	108.0	3.5	8.0	11.5
Neuroscience (Joint with MASC)	62.5	3.0	65.5	62.5	4.0	66.5	0.0	1.0	1.0
Political Science	334.0	39.5	373.5	309.0	32.5	341.5	-25.0	-7.0	-32.0
Psychology	787.5	54.5	842.0	718.0	45.5	763.5	-69.5	-9.0	-78.5
Social Justice and Equity Studies	22.0	4.0	26.0	23.0	5.0	28.0	1.0	1.0	2.0
Sociology	534.0	46.0	580.0	493.0	45.5	538.5	-41.0	-0.5	-41.5
Sustainability, Science and Society	8.0	1.0	9.0	20.0	0.0	20.0	12.0	-1.0	11.0
Tourism Management	73.0	7.0	80.0	67.0	7.0	74.0	-6.0	0.0	-6.0
Women's and Gender Studies	34.0	4.5	38.5	29.5	6.0	35.5	-4.5	1.5	-3.0
General Studies (Social Sciences)	301.0	96.0	397.0	292.0	117.0	409.0	-9.0	21.0	12.0
SOCIAL SCIENCES	4,679.5	552.5	5,232.0	4,532.5	585.0	5,117.5	-147.0	32.5	-114.5
Undeclared Arts	725.0	103.0	828.0	742.0	140.0	882.0	17.0	37.0	54.0
Letter of Permission	41.0	180.0	221.0	43.0	100.0	143.0	2.0	-80.0	-78.0
Non-Degree	15.0	83.0	98.0	18.0	93.0	111.0	3.0	10.0	13.0
Auditors	0.0	10.0	10.0	0.0	15.0	15.0	0.0	5.0	5.0
EXTRA FACULTY	781.0	376.0	1,157.0	803.0	348.0	1,151.0	-6.0	-28.0	-34.0
UNIVERSITY TOTAL	16,170.0	2,654.0	18,824.0	15,920.0	2,542.0	18,462.0	-250.0	-112.0	-362.0

Notes: There are decimals because of the split of enrollment of combined majors and/or joint programs; Starting in 2014-15, the Masters of Accountancy Regular program (ACGN) begins in the Winter term, hence this November 1 snapshot does not accurately reflect enrollment numbers for ACGN. For MTCU reporting purposes, ACGN numbers will be taken from the February 1 snapshot which can be accessed here: <http://brocku.ca/institutional-analysis/data-visualizations/HeadcountFeb1>

Executive Summary

- Total FTE enrolment has decreased from 17,217.4 in 2014-15 to 16,956.9 in 2015-16, a **decrease of 260.5** or **1.5%**.
 - Graduate FTE enrolment has decreased from 1,382.3 in 2014-15 to 1,379.5 in 2015-16, a **decrease of 2.8** FTEs or **0.2%**.
 - Undergraduate FTE enrolment has decreased from 15,835.1 in 2014-15 to 15,577.4 in 2015-16, a decrease of **257.7** or **1.6%**.
 - The proportion of graduate students as measured by the percentage of graduate FTE enrolment over total FTE enrollment has slightly **increased from 8.0%** in 2014-15 to **8.1%** in 2015-16.
 - The total number of undergraduate course FCE (Full Course Equivalent) sections has decreased from 1,740.8 in 2014-15 to 1,705.25 in 2015-16, a decrease of **35.6** or **2.0%**; Total number of undergraduate FCE Enrollment has decreased from 79,175.6 in 2014-15 to 77,887.13 in 2015-16, a **decrease of 1288.5** or **1.6%**.
 - Related to the above, the *Fall/Winter* average undergraduate class size has **decreased from 63.9** in 2014-15 to **63.4** in 2015-16, an average decrease of 0.5 students per class section.
-



All about Brock 2014-15

Brock University is situated atop the Niagara Escarpment in the beautiful Niagara region, where on a clear day you can see the Toronto skyline.

Located in the cradle of Canadian history, Niagara is dotted with landmarks that recognize our nation's story and celebrate its heritage figures. This includes the University's namesake, Maj.-Gen. Sir Isaac Brock.

Brock was founded in 1964 in response to grassroots community activism, and bolstered by local financial, moral and political support. Our location in a UNESCO Biosphere Reserve provides us with a unique mandate for sustainability in everything we do.

Our undergraduate, master's and doctoral programs include experiential learning opportunities and one of Canada's largest co-op programs. We also have a growing capacity for flexibility in learning, as evidenced by our condensed and online courses. When our students leave campus, their versatile degrees help them become leaders in their careers and in their communities.

Brock's transdisciplinary community-based research supports the region's emerging industry clusters such as biomanufacturing, digital media, green technology, and life sciences.

University-community partnerships have developed business incubators and support services that engage students, local businesses and entrepreneurs, enhancing the prosperity of our founding community and region.

Consider the following facts about Brock:

- We're one of Niagara's largest employers, directly employing more than 1,500 ongoing academic and support staff.
- 10 per cent of our students are from outside Canada, representing 94 countries: 7.5 per cent of undergraduate students and 35.4 per cent of graduate students.
- Nine Brock faculty members have received the 3M Teaching Fellowship Award, the only national award that recognizes teaching excellence and educational leadership.
- We have 12 Canada Research Chairs.
- Brock Co-op is Canada's fifth-largest program, and the third largest in the province, with more than 2,300 students enrolled in 39 programs across seven Faculties. Over the last 35 years, Brock co-op has achieved nearly 100 per cent work term employment rate.
- More than 85,000 alumni practise their skills around the world.
- Employment rate of Brock graduates two years after graduation is in the mid-90 per cent range.

Finance information is available at brocku.ca/finance Research grant information is available at brocku.ca/research

Questions? Please contact Institutional Analysis and Planning at 905 688 5550, x4776, Brock University.

STUDENTS

Headcount (Nov. 1, 2014)

	Undergraduate	Graduate	Total	Total %
Full-Time	14,911	1,259	16,170	86%
Part-Time	2,243	411	2,654	14%
	17,154	1,670	18,824	
Male	7,439	588	8,027	43%
Female	9,715	1,082	10,797	57%

Origin of International Students

	Undergraduate	Graduate	Total	Total %
Asia	885	490	1,375	73%
Europe	113	38	151	8%
Africa	88	36	124	7%
North America	16	19	35	2%
C&S Ame.&Caribbean	171	6	177	9%
Oceania	16	2	18	1%
Other				0%
	1,289	591	1,880	100%

Origin of New FT Year I Undergraduates (Fall 2014)

Region	101s*	Other	Total
Niagara	26%	28%	26%
GTA	43%	26%	40%
Rest of Ontario	31%	22%	29%
Rest of Canada	0.0%	5%	1%
Outside Canada	0.1%	19%	4%
Unknown			0.0%
	100%	100%	100%

* Direct entry from Secondary School

MTCU Performance Indicators (2013)

	Brock	System*
Employment Rate (6 Months)	88%	87%
Employment Rate (2 Years)	93%	92%
Graduation Rate	75%	77%

* Provincially-Funded Ontario Universities

OSAP STATISTICS

Academic Year	# of Applicants	Number Awarded	Success Rate	% of FT Students
2012-13*	8,838	7,356	83%	46%
2013-14	9,462	8,222	87%	51%
2014-15	9,968	8,738	88%	54%

* OTG applicants and recipients included since 2012-13

LIBRARY HOLDINGS (2014)

Books and Government Publications (# vol.)	517,588
E-books (# titles)	323,709
E-journals (# titles)	45,378
Print Journals (# titles)	319
Microforms (# pieces)	182,078
Sound and Video Recordings (# titles)	20,815
Maps (# pieces incl. digital)	48,455
Air Photos (# pieces incl. digital)	19,536
	1,157,878

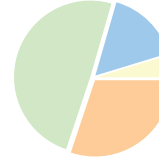
RESIDENCE BEDS (November 2014)

DeCew, Vallee & Earp, Lowenberger Residences (traditional)	1,231
Village Residence (townhouses)	868
Quarry View Residence (townhouses)	290
	2,389

FULL-TIME FACULTY (2014)

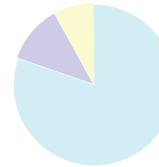
Rank Distribution

Professors	179	30%
Associate Professors	293	49%
Assistant Professors	94	16%
Lecturers	28	5%
	594	100%



Type of Appointment

Tenure-Stream	543	91%
<i>Tenured</i>	477	80%
<i>Probationary</i>	69	12%
Limited Term/Instructional Ltd. Term	47	8%
Permanent (Without Term)	1	0.2%
	594	100%



Male/Female Distribution

Faculty	Male		Female		Total
	#	%	#	%	
Applied Health Sci.	35	41%	50	59%	85
Business	64	67%	31	33%	95
Education	23	36%	41	64%	64
Humanities	51	49%	53	51%	104
Maths & Sciences	62	79%	16	21%	78
Social Sciences	92	55%	76	45%	168
Total	327	55%	267	45%	594

PROFESSIONAL LIBRARIANS (2014)

	FT	PT	Term FT	Total	Total %
Female	12			12	71%
Male	4		1	5	29%
	16		1	17	100%

Ongoing STAFF (Oct. 1, 2014)

	FT	PT	Term	Total	Total %
Administrative/Professional					
Female	286	25	43	354	61%
Male	194	5	27	226	39%
	480	30	70	580	63%
Support/Technical					
Female	151	25	10	186	87%
Male	26	2		28	13%
	177	27	10	214	23%
Maintenance and Trades					
Female	38			38	30%
Male	87			87	70%
	125			125	14%
TOTAL					
Female	475	50	53	578	63%
Male	307	7	27	341	37%
	782	57	80	919	100%

ALUMNI (November 2014)

Graduates

Female	52,021	61%
Male	33,893	39%
	85,914	100%

Degrees Awarded

	2014	Cumulative	%
BA	1,486	38,272	44%
BEEd	746	19,784	23%
BSc	340	8,081	9%
BBA/BAdmin	316	6,309	7%
BPhEd	101	4,132	5%
BRLS	108	2,483	3%
BAcc	181	2,371	3%
BSM	135	1,520	2%
BBE	19	1,017	1%
BKin	95	1,061	1.2%
BScN	100	905	1.0%
BTS	0	161	0.2%
BMus	8	100	0.1%
BPH	23	109	0%
BCB	4	40	0%
BECE	28	39	0%
Total Bachelor's Degrees	3,690	86,384	100%
MEd	144	4,906	51%
MA	146	1,641	17%
MSc	72	958	10%
MBA	171	922	10%
MAcc	88	630	6%
MADS	75	308	3%
MDiv/MTHE	5	131	1.4%
PhD	24	124	1.3%
MBE	11	81	0.8%
Total Graduate Degrees	736	9,701	100%
Certificates/Diplomas	173	2,332	

ADMISSIONS

Applications for Year I Undergraduate Full-Time Study

	Secondary School		Other		Total
	#	%	#	%	
2010	16,041	81%	3,698	19%	19,739
2011	15,440	83%	3,256	17%	18,696
2012	16,218	84%	2,985	16%	19,203
2013	16,891	84%	3,199	16%	20,090
2014	16,341	84%	3,074	16%	19,415

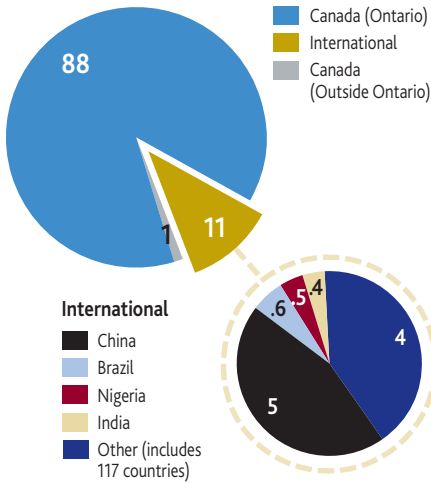
New Full-Time Degree-Seeking Year I Registrants (Sept.)

	Secondary School		Other		Total
	#	%	#	%	
2010	3,059	79%	797	21%	3,856
2011	3,061	78%	878	22%	3,939
2012	3,197	82%	721	18%	3,918
2013	3,197	83%	639	17%	3,836
2014	3,038	80%	746	20%	3,784

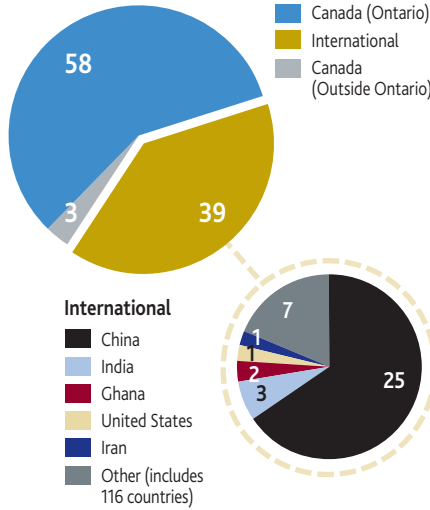
Teacher Education (Consecutive Program Only)

	Applicants		Registrants		Ratio
	#	% Change	#	% Change	
2010	2,300		500		22%
2011	3,217	40%	485	-3%	15%
2012	3,123	-3%	419	-14%	13%
2013	2,326	-26%	403	-4%	17%
2014	2,354	1%	358	-11%	15%

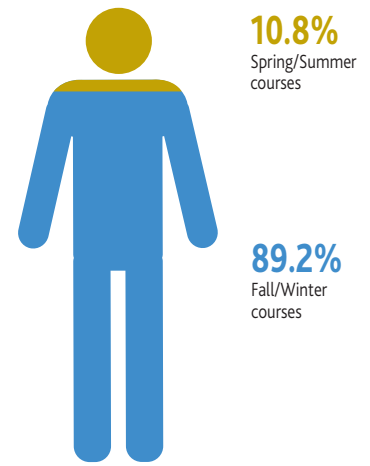
2014 headcount of undergraduate students (%)



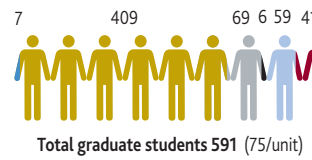
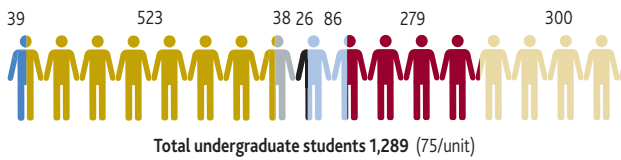
2014 headcount of graduate students (%)



Courses taught by semester

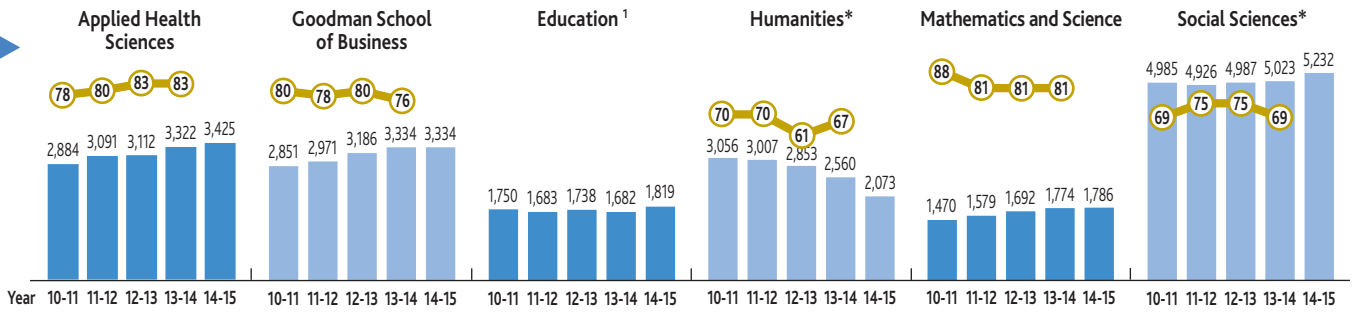


2014 international student headcount by Faculty



- Faculty of Applied Health Sciences (FAHS)
- Goodman School of Business (GSB)
- Faculty of Education (FOE)
- Faculty of Humanities (FOH)
- Faculty of Mathematics and Science (FMS)
- Faculty of Social Sciences (FOSS)
- Other

Student headcount by major

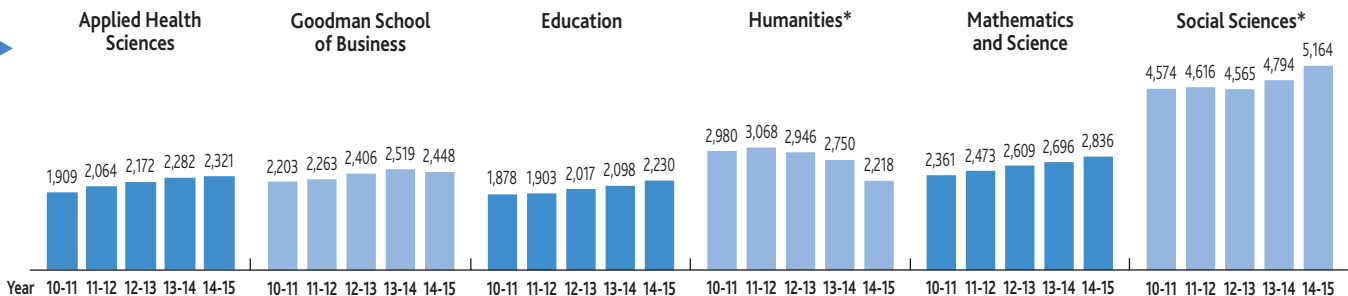


■ Fall student headcount full-time (FT) and part-time (PT) by Faculty of major.
■ (%) of flow-through of students from Year 1 to Year 2.

(1) (%) of flow-through of Education is not included since the majority of students are enrolled in a one-year program.
(2) Figures include undeclared Arts students, which are not included in any of the Faculties in the above charts.

	2010-11	2011-12	2012-13	2013-14	2014-15
Undergraduate (FT)	14,077	14,439	14,672	14,853	14,911
Undergraduate (PT)	2,264	2,217	2,210	2,146	2,243
Graduate (FT)	932	1,028	1,180	1,298	1,259
Graduate (PT)	604	506	450	391	411
Total²	17,877	18,190	18,512	18,688	18,824

Student full-time equivalent



■ Full-time equivalent (FTE) student by teaching department/program.

*See the Applied Linguistics adjustment note on the Big Picture pullout in the 2015-16 Budget Report.

	2010-11	2011-12	2012-13	2013-14	2014-15
Undergraduate	14,792	15,207	15,400	15,724	15,835
Graduate	1,113	1,180	1,315	1,415	1,382
Total	15,905	16,387	16,715	17,139	17,217

**Environmental Protection Act
Loi sur la protection de l'environnement**

Partial copy of
O.Reg.102/94

ONTARIO REGULATION 102/94

WASTE AUDITS AND WASTE REDUCTION WORK PLANS

Consolidation Period: From March 3, 1994 to the [e-Laws currency date](#).

No amendments.

This Regulation is made in English only.

**PART I
GENERAL**

1. In this Regulation,

“waste” means municipal waste as defined in Regulation 347 of the Revised Regulations of Ontario, 1990;

“waste audit” means a study relating to waste;

“waste reduction work plan” means a plan to reduce, reuse and recycle waste. O. Reg. 102/94, s. 1.

2. A waste audit required under this Regulation shall address,

(a) the amount, nature and composition of the waste;

(b) the manner by which the waste gets produced, including management decisions and policies that relate to the production of waste; and

(c) the way in which the waste is managed. O. Reg. 102/94, s. 2.

3. (1) A waste reduction work plan required under this Regulation shall include, to the extent that is reasonable, plans to reduce, reuse and recycle waste and shall set out who will implement each part of the plan, when each part will be implemented and what the expected results are.

(2) In developing the work plan, regard shall be had to the following principles:

1. Reduction is the first objective.

2. If reduction is not possible, then reuse is the next objective.

3. If reduction and reuse are not possible, then recycling is the final objective. O. Reg. 102/94, s. 3.

4. A person who is required under this Regulation to prepare a report of a waste audit or a waste reduction work plan shall prepare it on a form provided by the Ministry or in the same format as such a form. O. Reg. 102/94, s. 4.

5. (1) A person who is required under this Regulation to prepare a report of a waste audit or a waste reduction work plan shall retain a copy of the report or plan for at least five years after it was prepared.

(2) A person who is required under this Regulation to prepare a report of a waste audit or a waste reduction work plan shall submit to the Director, on request, the required report or plan, within seven days of the Director requesting them. O. Reg. 102/94, s. 5.

6. (1) A person who becomes subject to an obligation under this Regulation to prepare a report of a waste audit or a waste reduction work plan shall do so within six months of becoming subject to the obligation.

(2) This section does not apply with respect to updated reports or plans.

(3) This section does not apply with respect to obligations of a builder under Part IV or a demolisher under Part V. O. Reg. 102/94, s. 6.

7. (1) A new owner or operator to whom this Regulation applies is not required to conduct a new waste audit or prepare a new waste reduction work plan if an audit or work plan was conducted or prepared by a previous owner or operator and the new owner or operator updates the audit and work plan as required under this Regulation.

(2) This section does not apply with respect to a builder under Part IV or a demolisher under Part V. O. Reg. 102/94, s. 7.

8. (1) A person who has an obligation to conduct a waste audit and prepare a report under Part II, III, VI, VII, VIII, IX, X or XI in respect of more than one retail shopping establishment, retail shopping complex, building, restaurant, hotel or motel, hospital, location or campus of an educational institution, or site of a manufacturing establishment, may conduct a single

50. The waste reduction work plan shall include measures for communicating the plan to the operator's employees who work at the hospital and, as a minimum, those measures shall require,

- (a) that the plan or a summary be posted in places where most employees will see it; and
- (b) if a summary is posted, that any employee who requests to look at the plan be allowed to do so. O. Reg. 102/94, s. 50.

PART X
EDUCATIONAL INSTITUTIONS

51. (1) This Part applies to the operator of an educational institution in respect of a location or campus of the institution if, at the location or campus, at any time during the calendar year, more than 350 persons are enrolled.

(2) This Part continues to apply in respect of a location or campus for the two calendar years following the last year in which more than 350 persons were enrolled at the location or campus. O. Reg. 102/94, s. 51.

52. (1) The operator shall conduct a waste audit covering the waste generated by the operation of the institution at the location or campus. The audit shall also address the extent to which materials or products used consist of recycled or reused materials or products.

(2) After conducting the waste audit, the operator shall prepare a written report of the audit.

(3) In every year following the initial waste audit, the operator shall update the audit and prepare an updated written report. O. Reg. 102/94, s. 52.

53. (1) The operator shall prepare a written waste reduction work plan, based on the waste audit, to reduce, reuse and recycle waste generated by the operation of the institution at the location or campus.

(2) In every year following the preparation of the initial waste reduction work plan, the operator shall prepare an updated written plan. O. Reg. 102/94, s. 53.

54. The operator shall implement the waste reduction work plan as updated. O. Reg. 102/94, s. 54.

55. The waste reduction work plan shall include measures for communicating the plan to the operator's employees who work at the location or campus and, as a minimum, those measures shall require,

- (a) that the plan or a summary be posted in places where most employees will see it; and
- (b) if a summary is posted, that any employee who requests to look at the plan be allowed to do so. O. Reg. 102/94, s. 55.

PART XI
LARGE MANUFACTURING ESTABLISHMENTS

56. (1) This Part applies to the owner or operator of a site that is a manufacturing establishment.

(2) This Part does not apply to an owner of a site in a particular calendar year if,

- (a) during the two preceding calendar years there was no calendar month in which the hours worked by the persons employed at the site exceeded 16,000 hours; and
- (b) the owner is able to demonstrate this fact, within seven days of a request from the Director, through evidence satisfactory to the Director.

(3) Copies of the records related to hours of employment maintained under section 11 of the *Employment Standards Act* shall be deemed to be sufficient evidence of hours worked at a site if the copies are certified by the owner or the owner's representative as to the accuracy of the records.

(4) In this Part,

"owner" includes the operator of a manufacturing establishment but does not include a landlord;

"site" means one property and includes nearby properties owned or leased by the same person where passage from one property to another involves crossing, but not travelling along, a public highway. O. Reg. 102/94, s. 56.

57. (1) The owner shall conduct a waste audit covering the waste generated by the operation of the establishment at the site. The audit shall also address the extent to which materials or products used or sold consist of recycled or reused materials or products.

(2) After conducting the waste audit, the owner shall prepare a written report of the audit.

(3) In every year following the initial waste audit, the owner shall update the audit and prepare an updated written report. O. Reg. 102/94, s. 57.

58. (1) The owner shall prepare a written waste reduction work plan, based on the waste audit, to reduce, reuse and recycle waste generated by the operation of the establishment.

(2) In every year following the preparation of the initial waste reduction work plan, the owner shall prepare an updated written plan. O. Reg. 102/94, s. 58.

**Environmental Protection Act
Loi sur la protection de l'environnement**

Partial copy of
O.Reg.103/94

ONTARIO REGULATION 103/94

**INDUSTRIAL, COMMERCIAL AND INSTITUTIONAL SOURCE SEPARATION
PROGRAMS**

Consolidation Period: From March 3, 1994 to the [e-Laws currency date](#).

No amendments.

This Regulation is made in English only.

SOURCE SEPARATION PROGRAMS

1. In this Regulation,

“Northern Ontario” means the territorial districts of Algoma, Cochrane, Kenora, Manitoulin, Nipissing, Parry Sound, Rainy River, Sudbury, Thunder Bay and Timiskaming and The Regional Municipality of Sudbury;

“source separation program” means a program to facilitate the source separation of waste for reuse or recycling. O. Reg. 103/94, s. 1.

2. (1) A source separation program required under this Regulation must include,

- (a) the provision of facilities for the collection, handling and storage of source separated wastes described in subsection (2) adequate for the quantities of anticipated wastes;
- (b) measures to ensure that the source separated wastes that are collected are removed;
- (c) the provision of information to users and potential users of the program,
 - (i) describing the performance of the program,
 - (ii) encouraging effective source separation of waste and full use of the program;
- (d) reasonable efforts to ensure that full use is made of the program and that the separated waste is reused or recycled.

(2) The source separated waste referred to in clause (1) (a) is waste that has been source separated from other kinds of waste and that consists solely of waste from one or more of the following categories:

- 1. The categories of waste set out in the part of the Schedule applicable to the person required to implement the source separation program.
- 2. The categories of waste set out in Schedule 1, 2 or 3 of Ontario Regulation 101/94 that the source separation program accepts.

(3) A source separation program required under this Regulation must provide for all the categories of waste set out in the part of the Schedule applicable to the person required to implement the program except for categories of waste that cannot be reasonably anticipated. O. Reg. 103/94, s. 2.

3. Source separation programs required by this Regulation are exempt from sections 27, 40 and 41 of the Act. O. Reg. 103/94, s. 3.

4. (1) A source separation program that is not required by this Regulation is exempt from sections 27, 40 and 41 of the Act if,

- (a) the program is restricted to waste generated at a single site;
- (b) the program only accepts waste that has been source separated from other kinds of waste and that consists solely of waste from one or more of the categories of waste set out in Schedule 1, 2 or 3 of Ontario Regulation 101/94;
- (c) the program includes everything set out in subsection 2 (1).

(2) For the purposes of clause (1) (c), the reference to source separated waste in clause 2 (1) (a) shall be deemed to be a reference to the waste described in clause (1) (b). O. Reg. 103/94, s. 4.

RETAIL SHOPPING ESTABLISHMENTS

5. (1) This section applies to the owner of an establishment that sells goods or services at retail to persons who come to the establishment if,

- (a) the establishment occupies premises with a floor area of at least 10,000 square metres;
or
- (b) the establishment occupies premises in a complex in respect of which section 6 applies and the owner of the establishment is solely responsible for the establishment's waste management.

(2) The owner shall implement a source separation program for the wastes generated by the establishment or shall ensure that such a program is implemented.

(3) This section applies only in respect of an establishment located within a local municipality that has a population of at least 5,000.

(4) This section takes effect with respect to an establishment in Northern Ontario on July 1, 1996. O. Reg. 103/94, s. 5.

RETAIL SHOPPING COMPLEXES

6. (1) This section applies to the owner of a complex that contains premises occupied by establishments that sell goods or services at retail to persons who come to the establishments if the total floor area of such premises is at least 10,000 square metres.

(2) The owner shall implement a source separation program for the wastes generated at the complex or shall ensure that such a program is implemented.

(3) The source separation program need not provide for the waste generated in the operation of an establishment in the complex if section 5 applies to the owner of the establishment.

(4) This section applies only in respect of a complex located in a local municipality that has a population of at least 5,000.

(5) This section takes effect with respect to a complex in Northern Ontario on July 1, 1996. O. Reg. 103/94, s. 6.

- (c) a building in respect of which section 9 applies;
- (d) a hotel or motel in respect of which section 12 applies;
- (e) a hospital in respect of which section 13 applies;
- (f) a location or campus of an educational institution in respect of which section 14 applies.

- (4) This section does not apply to an owner of a restaurant in a particular calendar year if,
- (a) during the two preceding calendar years there was no year in which the gross sales for all restaurants operated by the owner in Ontario equalled or exceeded \$3,000,000; and
 - (b) the owner is able to demonstrate this fact, within seven days of a request from the Director, through evidence satisfactory to the Director.

(5) Copies of the records related to purchase and sale maintained under subsection 5 (1) of Regulation 1013 of the Revised Regulations of Ontario, 1990 shall be deemed to be sufficient evidence of the gross sales of a restaurant if the copies are certified by the owner or the owner's representative as to the accuracy of the records.

(6) This section applies only in respect of a restaurant located within a local municipality that has a population of at least 5,000.

(7) This section takes effect with respect to a restaurant in Northern Ontario on July 1, 1996. O. Reg. 103/94, s. 11.

HOTELS AND MOTELS

12. (1) The owner of a hotel or motel that has more than seventy-five units shall implement a source separation program for the wastes generated by the operation of the hotel or motel or shall ensure that such a program is implemented.

(2) This section applies only in respect of a hotel or motel located within a local municipality that has a population of at least 5,000.

(3) This section takes effect with respect to a hotel or motel in Northern Ontario on July 1, 1996. O. Reg. 103/94, s. 12.

HOSPITALS

13. (1) The operator of a public hospital classified as a class A, B or F hospital in Regulation 964 of the Revised Regulations of Ontario, 1990 shall implement a source separation program for the wastes generated by the operation of the hospital or shall ensure that such a program is implemented.

(2) This section applies only in respect of a public hospital located within a local municipality that has a population of at least 5,000.

(3) This section takes effect with respect to a public hospital in Northern Ontario on July 1, 1996. O.Reg. 103/94, s. 13.

EDUCATIONAL INSTITUTIONS

14. (1) This section applies to the operator of an educational institution in respect of a location or campus of the institution if, at the location or campus, at any time during the

calendar year, more than 350 persons are enrolled.

(2) The operator shall implement a source separation program for the waste generated by the operation of the institution at the location or campus or shall ensure that such a program is implemented.

(3) This section continues to apply in respect of a location or campus for the two calendar years following the last year in which more than 350 persons were enrolled at the location or campus.

(4) This section applies only in respect of a location or campus located within a local municipality that has a population of at least 5,000.

(5) This section takes effect with respect to a location or campus in Northern Ontario on July 1, 1996. O. Reg. 103/94, s. 14.

LARGE MANUFACTURING ESTABLISHMENTS

15. (1) This section applies to the owner or operator of a site that is a manufacturing establishment.

(2) The owner shall implement a source separation program for the waste generated by the operation of the establishment at the site or shall ensure that such a program is implemented.

(3) This section does not apply to an owner of a site in a particular calendar year if,

(a) during the two preceding calendar years there was no calendar month in which the hours worked by the persons employed at the site exceeded 16,000 hours; and

(b) the owner is able to demonstrate this fact, within seven days of a request from the Director, through evidence satisfactory to the Director.

(4) Copies of the records related to hours of employment maintained under section 11 of the *Employment Standards Act* shall be deemed to be sufficient evidence of hours worked at a site if the copies are certified by the owner or the owner's representative as to the accuracy of the records.

(5) In this section,

“owner” includes the operator of a manufacturing establishment but does not include a landlord;

“site” means one property and includes nearby properties owned or leased by the same person where passage from one property to another involves crossing, but not travelling along, a public highway. O. Reg. 103/94, s. 15.

TRANSITION

16. Except as otherwise provided, a person who, upon the coming into force of this Regulation, or at any time within twelve months after the coming into force of this Regulation, becomes subject to an obligation with respect to the implementation of a source separation program shall fulfil the obligation within twelve months after the coming into force of this Regulation. O.Reg. 103/94, s. 16.

SCHEDULE

WASTES TO BE PROVIDED FOR IN SOURCE SEPARATION PROGRAMS

2. Cardboard (corrugated).
3. Fine paper.
4. Glass bottles and jars for food or beverages.
5. Newsprint.
6. Polyethylene terephthalate bottles for food or beverages (including bottles made primarily of polyethylene terephthalate).
7. Steel food or beverage cans (including cans made primarily of steel).

**PART IX
HOSPITALS**

(referred to in section 13)

1. Aluminum food or beverage cans (including cans made primarily of aluminum).
2. Cardboard (corrugated).
3. Fine paper.
4. Glass bottles and jars for food or beverages.
5. Newsprint.
6. Steel food or beverage cans (including cans made primarily of steel).

**PART X
EDUCATIONAL INSTITUTIONS**

(referred to in section 14)

1. Aluminum food or beverage cans (including cans made primarily of aluminum).
2. Cardboard (corrugated).
3. Fine paper.
4. Glass bottles and jars for food or beverages.
5. Newsprint.
6. Steel food or beverage cans (including cans made primarily of steel).

**PART XI
LARGE MANUFACTURING ESTABLISHMENTS**

(referred to in section 15)

1. Aluminum.
2. Cardboard (corrugated).
3. Fine paper.
4. Glass.
5. Newsprint.



CALIBRATION CERTIFICATE

DATE: May 11 2018

SR No.: 47338

CUSTOMER:

Waste Reduction Group
801 King St W Unit PH #20
Toronto ON M5V 3C9

REMARKS

This is to certify that the following scale has been tested and calibrated 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.

Anyload EWH-150
Capacity 150 kg
S/N -20161108049

Technician's Signature



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

Annual Data

MONTH		HARRISON HALL & POLICE BUILDING - 015483 - 0004												
		January	February	March	April	May	June	July	August	September	October	November	December	Total
4CY WASTE	# of Pickups	5.00	4.00	4.00	5.00	6.00	4.00	4.00	5.00	5.00	5.00	4.00	4.00	55.00
	MT	1.20	0.96	0.96	1.20	1.44	0.96	0.96	1.20	1.20	1.20	0.96	0.96	15.20

MONTH		BRIARWOOD HAMILTON CAMPUS - 015483 - 0005												
		January	February	March	April	May	June	July	August	September	October	November	December	Total
8CY WASTE	# of Pickups	4.00	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	4.00	3.00	50.00
	MT	1.92	1.92	1.92	1.92	2.30	1.92	1.92	2.16	1.92	2.16	1.92	1.11	21.88
15CY CONSTRUCTION WASTE	# of Pickups											1.00		1.00
	MT											0.90		0.90
8CY MIXED RECYCLING	# of Pickups	4.00	4.00	4.00	4.00	4.00	2.00	2.00	2.00	4.00	5.00	4.00	3.00	42.00
	MT	2.30	2.30	2.30	2.30	2.30	1.15	1.15	1.15	2.30	2.88	2.30	1.73	24.17

MONTH		EARP RESIDENCE - 015483 - 0007												
		January	February	March	April	May	June	July	August	September	October	November	December	Total
6CY WASTE	# of Pickups	11.00	11.00	13.00		7.00	4.00	4.00	7.00	15.00	16.00	13.00	9.00	110.00
	MT	3.90	3.90	4.68		2.32	1.44	1.44	2.52	5.40	5.76	4.68	3.24	59.08
6CY WASTE-MOVE OUT	# of Pickups				23.00									23.00
	MT				8.28									8.28

MONTH		QUARRY VIEW RESIDENCE (SOUTH) - 015483 - 0011												
		January	February	March	April	May	June	July	August	September	October	November	December	Total
8CY WASTE	# of Pickups	9.00	8.00	9.00	14.00	6.00	5.00	3.00	6.00	14.00	9.00	8.00	7.00	98.00
	MT	1.92	1.61	1.92	6.72	2.88	2.16	1.11	2.88	6.72	4.32	3.64	3.36	47.84
6CY WASTE-MOVE OUT	# of Pickups				6.00									6.00
	MT				2.16									2.16
8CY CARDBOARD-MOVE IN	# of Pickups									2.00				2.00
	MT									0.32				0.32

MONTH		QUARRY VIEW RESIDENCE (NORTH) - 015483 - 0012												
		January	February	March	April	May	June	July	August	September	October	November	December	Total
8CY WASTE	# of Pickups	7.00	7.00	9.00	10.00	6.00	4.00	4.00	6.00	14.00	9.00	8.00	7.00	91.00
	MT	2.36	2.36	4.23	4.80	2.88	1.92	1.92	2.88	6.72	4.23	2.88	2.26	42.68

MONTH		RODMAN HALL - 015483 - 0014												
		January	February	March	April	May	June	July	August	September	October	November	December	Total
3CY WASTE	# of Pickups	4.00	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	4.00	3.00	50.00
	MT	0.72	0.72	0.72	0.72	0.90	0.72	0.72	0.90	0.72	0.90	0.72	0.54	9.00

LOWENBERG RESIDENCE - 015483 - 0015

MONTH		January	February	March	April	May	June	July	August	September	October	November	December	Total
6CY WASTE	# of Pickups	22.00	22.00	26.00		14.00	6.00	4.00	3.00		42.00	44.00	30.00	213.00
	MT	7.92	7.92	9.96		5.91	2.16	1.11	1.88		15.12	15.84	10.80	75.59
6CY WASTE - MOVE IN/OUT	# of Pickups				38.00					29.00				67.00
	MT				13.68					10.11				21.12

VILLAGE RESIDENCE - 015483 - 0016

MONTH		January	February	March	April	May	June	July	August	September	October	November	December	Total
8CY WASTE	# of Pickups	22.00	25.00	26.00	34.00	11.00	5.00	3.00	3.00	28.00	28.00	26.00	20.00	231.00
	MT	10.58	12.88	12.48	16.92	5.28	2.18	1.11	1.18	19.11	19.11	12.48	9.68	118.81
8CY - MIXED RECYCLING	# of Pickups	21.00	21.00	27.00	39.00	27.00	27.00	21.00	3.00	22.00	27.00	27.00	18.00	280.00
	MT	12.10	12.10	15.55	22.46	15.55	15.55	12.10	1.73	12.67	15.55	15.55	10.34	161.24
6CY WASTE - MOVE IN/OUT	# of Pickups				18.00					2.00				20.00
	MT				6.48					0.72				7.20

WALKER WEST - PHYS ED - 015483 - 0017

MONTH		January	February	March	April	May	June	July	August	September	October	November	December	Total
8CY WASTE	# of Pickups	12.00	13.00	13.00	13.00	13.00	13.00	13.00	14.00	12.00	14.00	13.00	12.00	155.00
	MT	3.76	4.24	4.24	4.24	4.24	4.24	4.24	4.72	3.76	4.72	4.24	3.76	74.48

CENTRAL UTILITIES - 015483 - 0018

MONTH		January	February	March	April	May	June	July	August	September	October	November	December	Total
6CY WASTE	# of Pickups	7.00	8.00	9.00	8.00	9.00	9.00	8.00	10.00	8.00	9.00	9.00	7.00	101.00
	MT	2.52	2.88	3.24	2.88	3.24	3.24	2.88	3.60	2.88	3.24	3.24	2.52	30.36

CENTRAL RECEIVING - 015483 - 0019

MONTH		January	February	March	April	May	June	July	August	September	October	November	December	Total
8CY WASTE COMPACTOR	# of Pickups	3.00	4.00	5.00	4.00	5.00	4.00	4.00	5.00	5.00	4.00	4.00	4.00	51.00
	MT	72.00	96.00	120.00	96.00	120.00	96.00	96.00	120.00	120.00	96.00	96.00	96.00	1224.00

SCHMON TOWER - 015483 - 0020

MONTH		January	February	March	April	May	June	July	August	September	October	November	December	Total
35CY WASTE COMPACTOR	# of Pickups	2.00	2.00	3.00	4.00	2.00	1.00	2.00	7.00	2.00	3.00	2.00	2.00	32.00
	MT	210.00	210.00	315.00	420.00	210.00	105.00	210.00	735.00	210.00	315.00	210.00	210.00	3360.00

FACULTY CLUB - 015483 - 0021

Alphie's

MONTH		January	February	March	April	May	June	July	August	September	October	November	December	Total
4CY WASTE	# of Pickups	4.00	4.00	4.00	4.00	2.00	1.00	0.00	0.00	3.00	5.00	4.00	3.00	34.00
	MT	0.96	0.96	0.96	0.96	0.48	0.24	0.00	0.00	0.72	1.20	0.96	0.72	8.16

DAY CARE - 015483 - 0022

MONTH		January	February	March	April	May	June	July	August	September	October	November	December	Total
4CY WASTE	# of Pickups	4.00	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	4.00	3.00	50.00
	MT	0.96	0.96	0.96	0.96	1.20	0.96	0.96	1.20	0.96	1.20	0.96	0.72	12.00

MONTH		DECEW CAFÉ - 015483 - 0023												
		January	February	March	April	May	June	July	August	September	October	November	December	Total
8CY WASTE	# of Pickups	3.00	4.00	5.00	4.00	4.00	4.00	6.00	5.00	10.00	14.00	13.00	9.00	81.00
	MT	1.44	1.92	2.40	1.92	1.92	1.92	2.88	2.40	4.80	6.72	6.24	4.32	28.80

MONTH		NORTH RESIDENCE - 015483 - 0024 - 0003 Decew Residence												
		January	February	March	April	May	June	July	August	September	October	November	December	Total
8CY WASTE	# of Pickups	11.00	12.00	13.00	21.00	13.00	13.00	13.00	5.00	27.00	32.00	26.00	18.00	204.00
	MT	5.28	5.76	6.24	10.08	6.24	6.24	6.24	2.40	12.96	15.36	12.48	8.64	87.00
12CY CONSTRUCTION WASTE	# of Pickups								2.00	4.00				3.00
	MT								1.44	0.72				2.16

MONTH		WELCH HALL - 015483 - 0025												
		January	February	March	April	May	June	July	August	September	October	November	December	Total
6CY WASTE	# of Pickups	7.00	8.00	8.00	8.00	6.00	4.00	4.00	5.00	8.00	9.00	9.00	6.00	82.00
	MT	2.52	2.88	2.88	2.88	2.16	1.44	1.44	1.80	2.88	3.24	3.24	2.16	20.52

MONTH		PUBLIC HEALTH - 015483 - 0029 573A Glenridge												
		January	February	March	April	May	June	July	August	September	October	November	December	Total
6CY WASTE	# of Pickups	4.00	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	4.00	3.00	50.00
	MT	1.44	1.44	1.44	1.44	1.80	1.44	1.44	1.80	1.44	1.80	1.44	1.08	18.00

MONTH		PLAZA BOOK STORE - 015483 - 0032												
		January	February	March	April	May	June	July	August	September	October	November	December	Total
8CY WASTE COMPACTOR	# of Pickups	17.00	20.00	21.00	21.00	14.00	9.00	9.00	9.00	18.00	23.00	20.00	20.00	201.00
	MT	188.00	188.00	504.00	504.00	336.00	216.00	216.00	216.00	216.00	432.00	552.00	480.00	1824.00

MONTH		JOHN DECEW SCHOOL - 015483 - 0033 BRIC												
		January	February	March	April	May	June	July	August	September	October	November	December	Total
4CY WASTE	# of Pickups	4.00	4.00	4.00	4.00	5.00	4.00	4.00	5.00	2.00	1.00	1.00	1.00	39.00
	MT	0.96	0.96	0.96	0.96	1.20	0.96	0.96	1.20	0.48	0.24	0.24	0.24	8.00

MONTH		BARN STORAGE AREA - 015483 - 0036												
		January	February	March	April	May	June	July	August	September	October	November	December	Total
20CY BRUSH	# of Pickups	1.00	0.00	2.00	1.00	1.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	7.00
	MT	10.80	0.00	21.60	10.80	10.80	0.00	0.00	10.80	0.00	10.80	0.00	0.00	75.60
40CY CONSTRUCTION WASTE	# of Pickups	2.00	2.00	4.00	4.00	4.00	4.00	0.00	2.00	4.00	2.00	4.00	0.00	44.00
	MT	4.80	4.80	2.40	2.40	2.40	2.40	0.00	4.80	2.40	4.80	2.40	0.00	33.60

MONTH		BROCK PLAZA - 015483 - 0037 Not Applicable												
		January	February	March	April	May	June	July	August	September	October	November	December	Total
6CY WASTE	# of Pickups	7.00	8.00	9.00	9.00	6.00	4.00	4.00	5.00	7.00	9.00	8.00	6.00	82.00
	MT	2.52	2.88	3.24	3.24	2.16	1.44	1.44	1.80	2.52	3.24	2.88	2.16	29.52
6CY CARDBOARD	# of Pickups									6.00	3.00	9.00	6.00	30.00
	MT									0.72	1.08	1.08	0.72	3.60

MARILYN WALKER SCHOOL - 015483 - 0038														
MONTH		January	February	March	April	May	June	July	August	September	October	November	December	Total
2CY WASTE	# of Pickups	11.00	12.00	13.00	13.00	13.00	13.00	13.00	14.00	13.00	14.00	13.00	9.00	151.00
	MT	4.92	4.44	4.56	4.56	4.56	4.56	4.56	4.68	4.56	4.68	4.56	4.08	49.44
15Y CONSTRUCTION WASTE	# of Pickups			1.00								1.00	1.00	3.00
	MT			0.90								0.90	0.90	2.70

INTERNATIONAL BUILDING - 015483 - 0041														
MONTH		January	February	March	April	May	June	July	August	September	October	November	December	Total
6CY WASTE	# of Pickups	8.00	8.00	8.00	9.00	6.00	4.00	4.00	5.00	7.00	10.00	8.00	6.00	83.00
	MT	2.88	2.88	2.88	3.24	2.16	1.44	1.44	1.80	2.52	3.60	2.88	2.16	29.88

CAIRNS FAMILY HEALTH - 015483 - 0043														
MONTH		January	February	March	April	May	June	July	August	September	October	November	December	Total
8CY WASTE	# of Pickups	3.00	5.00	5.00	4.00	4.00	5.00	4.00	5.00	4.00	4.00	6.00	4.00	53.00
	MT	1.44	2.40	2.40	1.92	1.92	2.40	1.92	2.40	1.92	1.92	2.88	1.92	23.14

YEARLY TOTAL - 2018	WASTE		MOVE IN/OUT WASTE		CONSTRUCTION WASTE		CARDBOARD		MOVE IN/OUT CARDBOARD		MIXED RECYCLING		ORGANICS	
	# of Pickups	MT	# of Pickups	MT	# of Pickups	MT	# of Pickups	MT	# of Pickups	MT	# of Pickups	MT	# of Pickups	MT
HARRISON HALL & POLICE BUILDING	55.00	13.20												
BRIARWOOD HAMILTON CAMPUS	50.00	24.00			1.00	0.90					42.00	24.17		
EARP RESIDENCE	110.00	39.60	23.00	8.28										
QUARRY VIEW RESIDENCE SOUTH	98.00	47.04	8.00	2.48					2.00	0.32				
QUARRY VIEW RESIDENCE NORTH	91.00	43.68												
RODMAN HALL	50.00	9.00												
LOWENBERG RESIDENCE	213.00	76.68	67.00	24.12										
VILLAGE RESIDENCE	231.00	110.84	20.00	7.20							280.00	161.24		
WALKER WEST - PHYS ED	155.00	74.40												
CENTRAL UTILITIES	101.00	36.36												
CENTRAL RECEIVING	51.00	1224.00												
SCHMON TOWER	32.00	3360.00												
FACULTY CLUB	34.00	86.00												
DAY CARE	50.00	12.00												
DECEW CAFE	81.00	38.88												
NORTH RESIDENCE	204.00	97.92			3.00	2.16								
WELCH HALL	82.00	29.52												
PUBLIC HEALTH	50.00	18.00												
PLAZA BOOK STORE	201.00	4824.00												
JOHN DECEW SCHOOL	39.00	123.00												
BARN STORAGE AREA					14.00	33.60							7.00	75.60
BROCK PLAZA	82.00	29.52					30.00	3.60						
MARILYN WALKER SCHOOL	151.00	18.12			3.00	2.70								
INTERNATIONAL BUILDING	83.00	29.88												
CAIRNS FAMILY HEALTH	53.00	25.44												
TOTAL OVERALL	2347.00	10391.08	118.00	42.08	21.00	39.36	30.00	3.60	2.00	0.32	322.00	185.41	7.00	75.60

Cardboard

Database: Toronto Transportation
Date: 1/1/2018 to 12/31/2018
Customer: 134866 to 134866
Site: 1
Quantity: Billing Quantity

Customer Number: 134866

BROCK UNIVERSITY, 1812 SIR ISAAC BROCK WAY, ST. CATHERINES, ON L2S3A1

Site Number: 1

BROCK UNIVERSITY, 1812 SIR ISAAC BROCK WAY ST. CATHERINES ON L2S3A1

Month	BA	Total
	Baled OCC	
Jan 18	8.84	8.84
Feb 18	7.37	7.37
Mar 18	6.50	6.50
Apr 18	6.50	6.50
May 18	4.96	4.96
Jun 18	3.54	3.54
Jul 18	1.18	1.18
Aug 18	3.54	3.54
Sep 18	7.97	7.97
Oct 18	6.50	6.50
Nov 18	12.10	12.10
Dec 18	3.59	3.59
Total	72.59	72.59

BA Baled OCC

100.00%

Year 2018
 In Out Flag |
 Data Source Recycling

Material	Material Name	Month												Grand Total		
		January	February	March	April	May	June	July	August	September	October	November	December			
Non-Transfer	21 Electronics						0.04						0.09		0.04	0.17
	51 Shredded Paper	2.51	3.65	6.59	2.85	3.24	2.80	6.50	7.91	2.36	5.89	2.69	3.65	50.63		
	71 Mixed Recyclables	16.07	11.56	12.78	15.49	12.05	13.54	11.50	10.66	10.74	13.74	13.97	8.36	150.48		
Non-Transfer Total		18.58	15.21	19.38	18.33	15.29	16.38	18.00	18.57	13.10	19.73	16.66	12.05	201.28		
Grand Total		18.58	15.21	19.38	18.33	15.29	16.38	18.00	18.57	13.10	19.73	16.66	12.05	201.28		



Sam Adelstein & Co. Limited

OFFICE & YARD: 492 WELLAND AVENUE, ST. CATHARINES ONTARIO

ST. CATHARINES, ONTARIO

Scrap metals

PHONE: (905) 988-9336

FAX: (905) 988-9336

DEALERS IN FERROUS & NON FERROUS METALS

Invoice

Account Number: 10067
Name: BROCK UNIVERSITY
Address: 500 GLENRIDGE AVENUE

ST. CATHARINES ONTARIO L2S 3A1

Invoice Number: 10022793
Invoice Date: Jan/31/18
Due Date:

Ticket Number	Transaction Date	Customer No.	Contract No.			
Description		Reference	Weight	Unit	Price	Amount
214937	1/18/2018		22650	2	↑	
TIN MATERIAL			2,580	LB	227.00 NT	292.83

Adjust: 500
Accept: 2,580

HST: 38.07 Amount: 330.90

Amount: 292.83 Tax: 38.07 Total: 330.90

Grade Summary

Grade	Count	Paid Weight	Amount
TIN MATERIAL	1	2,580 LB	292.83



Sam Adelstein & Co. Limited

OFFICE & YARD: 492 WELLAND AVENUE, ST. CATHARINES ONTARIO
ST. CATHARINES, ONTARIO L2M 5V5
PHONE: (905) 988-9336 FAX: (905) 687-9771
DEALERS IN FERROUS & NON FERROUS METALS

Invoice

Account Number: 10067
Name: BROCK UNIVERSITY
Address: 500 GLENRIDGE AVENUE

ST. CATHARINES ONTARIO L2S 3A1

Invoice Number: 10022854
Invoice Date: Feb/28/18
Due Date:

Ticket Number	Transaction Date	Customer No.	Contract No.				
Description		Reference	Weight	Unit	Price	Amount	
216364	2/26/2018		22776	2	1		
TIN MATERIAL			7,560	LB	227.00 NT	858.06	
		Adjust: 0					
		Accept: 7,560					
			HST:	111.55	Amount:	969.61	

Amount: 858.06 Tax: 111.55 Total: 969.61

Grade Summary				
Grade	Count	Paid Weight		Amount
TIN MATERIAL	1	7,560	LB	858.06



Sam Adelstein & Co. Limited

OFFICE & YARD: 492 WELLAND AVENUE, ST. CATHARINES ONTARIO
 ST. CATHARINES, ONTARIO L2M 5V5
 PHONE: (905) 988-9336 FAX: (905) 687-9771
 DEALERS IN FERROUS & NON FERROUS METALS

Invoice

Account Number: 10067
 Name: BROCK UNIVERSITY
 Address: 500 GLENRIDGE AVENUE

ST. CATHARINES ONTARIO L2S 3A1

Invoice Number: 10022916
 Invoice Date: Mar/30/18
 Due Date:

Ticket Number	Transaction Date	Customer No.	Contract No.	Unit	Price	Amount
216765 TIN MATERIAL	3/7/2018		22871	2	1	337.50
		Adjust: 0 Accept: 2,700	2,700	LB	250.00 NT	381.38
217208 TIN MATERIAL	3/19/2018		22871	2	1	407.50
		Adjust: 0 Accept: 3,260	3,260	LB	250.00 NT	460.48

SAM ADELSTEIN & CO LIMITED
 492 WELLAND AVE
 ST CATHARINES ONTARIO L2M5V5
 T: 905 988 9336

047540

DATE 20 18-03-16
 Y Y Y Y M M D D

PAY to
 the order of

BROCK UNIVERSITY

\$ 841.85
 XX



ROYAL BANK OF CANADA
 MAIN BRANCH - ST. CATHARINES
 80 KING ST., SUITE #1
 ST. CATHARINES, ONTARIO L2R 7G1

RE #10022916, Scrap

100 DOLLARS
 SAM ADELSTEIN & CO LIMITED

PER *[Signature]*
 PER *[Signature]*

⑈047540⑈ ⑆04222⑈003⑆ 126⑈4⑈5⑈9⑈

Amount: 745.00 Tax: 96.85 Total: 841.85

Grade Summary	Count	Paid Weight	Amount
Grade TIN MATERIAL	2	5,960 LB	745.00



Sam Adelstein & Co. Limited

OFFICE & YARD: 492 WELLAND AVENUE, ST. CATHARINES ONTARIO
 ST. CATHARINES, ONTARIO L2M 5V5
 PHONE: (905) 988-9336 FAX: (905) 687-9771
 DEALERS IN FERROUS & NON FERROUS METALS

Invoice

Account Number: 10067
 Name: BROCK UNIVERSITY
 Address: 600 GLENRIDGE AVENUE

ST. CATHARINES ONTARIO L2S 3A1

Invoice Number: 10022990
 Invoice Date: Apr/30/18
 Due Date:

Ticket Number	Transaction Date	Customer No.	Contract No.				
Description		Reference	Weight	Unit	Price	Amount	
218538	4/16/2018		22966	2	1		
TIN MATERIAL			920	LB	265.00 NT	121.80	
		Adjust: 200 Accept: 920			HST: 15.85	Amount: 137.75	
218667	4/18/2018		22966	2	1		
TIN MATERIAL			4,280	LB	265.00 NT	567.10	
		Adjust: 0 Accept: 4,280			HST: 73.72	Amount: 640.82	
219301	4/30/2018		22966	2	1		
TIN MATERIAL			2,940	LB	265.00 NT	389.55	
		Adjust: 0 Accept: 2,940			HST: 50.64	Amount: 440.19	

Amount: 1,078.55 Tax: 140.21 Total: 1,218.76

Grade Summary				
Grade	Count	Paid Weight		Amount
TIN MATERIAL	3	8,140	LB	1,078.55



Sam Adelstein & Co. Limited

OFFICE & YARD: 492 WELLAND AVENUE, ST. CATHARINES ONTARIO
ST. CATHARINES, ONTARIO L2M 5V6
PHONE: (905) 988-9336 FAX: (905) 687-9771
DEALERS IN FERROUS & NON FERROUS METALS

Invoice

Account Number: 10087
Name: BROCK UNIVERSITY
Address: 500 GLENRIDGE AVENUE

ST. CATHARINES ONTARIO L2S 3A1

Invoice Number: 10023053
Invoice Date: May/31/18
Due Date:

Ticket Number	Transaction Date	Customer No.	Contract No.				
Description		Reference	Paid Weight	Unit	Price	Amount	
220022	5/11/2018		23059	2	1		
TIN MATERIAL			3,280	LB	250.00 NT		410.00
		Adjust: 0					
		Accept: 3,280					
			HST:	53.30	Amount:		463.30

Amount: 410.00 Tax: 53.30 Total: 463.30

Grade Summary			
Grade	Count	Paid Weight	Amount
TIN MATERIAL	1	3,280 LB	410.00



Sam Adelstein & Co. Limited

OFFICE & YARD: 492 WELLAND AVENUE, ST. CATHARINES ONTARIO
ST. CATHARINES, ONTARIO L2M 5V5
PHONE: (905) 988-9336 FAX: (905) 887-9771
DEALERS IN FERROUS & NON FERROUS METALS

Invoice

Account Number: 10067
Name: BROCK UNIVERSITY
Address: 500 GLENRIDGE AVENUE

ST. CATHARINES ONTARIO L2S 3A1

Invoice Number: 10023133
Invoice Date: Jun/29/18
Due Date:

Ticket Number	Transaction Date	Customer No.	Contract No.			
Description		Reference	Paid Weight	Unit	Price	Amount
221598	6/6/2018		23155	2	1	
TIN MATERIAL			3,080	LB	245.00 NT	377.30
		Adjust: 0				
		Accept: 3,080				
			HST:	49.05	Amount:	426.35

Amount: 377.30 Tax: 49.05 Total: 426.35

Grade Summary

Grade	Count	Paid Weight	Unit	Amount
TIN MATERIAL	1	3,080	LB	377.30



Sam Adelstein & Co. Limited

OFFICE & YARD: 492 WELLAND AVENUE, ST. CATHARINES ONTARIO
ST. CATHARINES, ONTARIO L2M 5V5
PHONE: (905) 988-9336 FAX: (905) 687-9771
DEALERS IN FERROUS & NON FERROUS METALS

Invoice

Account Number: 10067
Name: BROCK UNIVERSITY
Address: 500 GLENRIDGE AVENUE

ST. CATHARINES ONTARIO L2S 3A1

Invoice Number: 10023210
Invoice Date: Jul/31/18
Due Date:

Ticket Number	Transaction Date	Customer No.	Contract No.	Unit	Price	Amount
223679	7/11/2018		23252	2	1	
TIN MATERIAL			4,340	LB	245.00 NT	531.65
		Adjust: 0	HST:	69.11	Amount:	600.76
		Accept: 4,340				
224293	7/23/2018		23252	2	1	
TIN MATERIAL			2,580	LB	245.00 NT	316.05
		Adjust: 0	HST:	41.09	Amount:	357.14
		Accept: 2,580				

SAM ADELSTEIN & CO LIMITED
492 WELLAND AVE
ST CATHARINES ONTARIO L2M5V5
T: 905 988 9336

047839

DATE 2018-09-18
Y Y Y Y M M D D

PAY to
the order of

Brock University

\$ 957.90
x7

100 DOLLARS



ROYAL BANK OF CANADA
MAIN BRANCH - ST. CATHARINES
80 KING ST., SUITE #1
ST. CATHARINES, ONTARIO L2R 7G1

SAM ADELSTEIN & CO LIMITED

PER

PER

RE #10023210 - SNAP

⑈047839⑈ ⑆04222⑈003⑈ 126⑈4⑈5⑈9⑈⑈

Amount: 847.70 Tax: 110.20 Total: 957.90

Grade Summary

Grade	Count	Paid Weight	Amount
TIN MATERIAL	2	6,920 LB	847.70



Sam Adelstein & Co. Limited

OFFICE & YARD: 492 WELLAND AVENUE, ST. CATHARINES ONTARIO
 ST. CATHARINES, ONTARIO L2M 5V5
 PHONE: (905) 988-9336 FAX: (905) 687-9771
 DEALERS IN FERROUS & NON FERROUS METALS

Invoice

Account Number: 10067
 Name: BROCK UNIVERSITY
 Address: 600 GLENRIDGE AVENUE

ST. CATHARINES ONTARIO L2S 3A1

Invoice Number: 10023292
 Invoice Date: Aug/31/18
 Due Date:

Ticket Number	Transaction Date	Customer No. Reference	Contract No.	Paid Weight	Unit	Price	Amount
225580 TIN MATERIAL	8/15/2018		23346	2,460	LB	205.00 NT	252.15
		Adjust: 0 Accept: 2,460	HST:	32.78	Amount:		284.93
228028 TIN MATERIAL	8/23/2018		23346	1,760	LB	206.00 NT	180.40
		Adjust: 0 Accept: 1,760	HST:	23.45	Amount:		203.65

Amount: 432.55 Tax: 56.23 Total: 488.78

Grade Summary			
Grade	Count	Paid Weight	Amount
TIN MATERIAL	2	4,220 LB	432.55



Sam Adelstein & Co. Limited

OFFICE & YARD: 492 WELLAND AVENUE, ST. CATHARINES ONTARIO
 ST. CATHARINES, ONTARIO L2M 5V5
 PHONE: (905) 988-9336 FAX: (905) 687-9771
 DEALERS IN FERROUS & NON FERROUS METALS

Invoice

Account Number: 10067
 Name: BROCK UNIVERSITY
 Address: 500 GLENRIDGE AVENUE

ST. CATHARINES ONTARIO L2S 3A1

Invoice Number: 10023365
 Invoice Date: Sep/30/18
 Due Date:

Ticket Number	Transaction Date	Customer No.	Contract No.					
Description		Reference	Paid Weight	Unit	Price	Amount		
226648	9/6/2018		23442	2	1			
TIN MATERIAL			2,400	LB	185.00 NT	222.00		
		Adjust: 0						
		Accept: 2,400	HST:	28.86	Amount:	250.88		
226682	9/7/2018		23442	2	1			
TIN MATERIAL			1,680	LB	185.00 NT	155.40		
		Adjust: 0						
		Accept: 1,680	HST:	20.20	Amount:	175.60		
227784	9/28/2018		23442	2	1			
TIN MATERIAL			3,800	LB	185.00 NT	351.50		
		Adjust: 0						
		Accept: 3,800	HST:	45.70	Amount:	397.20		

Amount: 728.90 Tax: 94.76 Total: 823.66

Grade Summary			
Grade	Count	Paid Weight	Amount
TIN MATERIAL	3	7,880 LB	728.90



Sam Adelstein & Co. Limited

OFFICE & YARD: 492 WELLAND AVENUE, ST. CATHARINES ONTARIO
 ST. CATHARINES, ONTARIO L2M 5V8
 PHONE: (905) 988-9336 FAX: (905) 687-9771
 DEALERS IN FERROUS & NON FERROUS METALS

Invoice

Account Number: 10067
 Name: BROCK UNIVERSITY
 Address: 500 GLENRIDGE AVENUE
 ST. CATHARINES ONTARIO L2S 3A1

Invoice Number: 10023436
 Invoice Date: Oct/31/18
 Due Date:

Ticket Number	Transaction Date	Customer No. Reference	Contract No.	Weight	Unit	Price	Amount
228008	10/4/2018		23538	3,440	2 LB	197.00 NT	338.84
		Adjust: 0			HST: 44.05	Amount:	392.89
		Accept: 3,440					
228542	10/16/2018		23538	2,980	2 LB	197.00 NT	291.56
		Adjust: 0			HST: 37.90	Amount:	329.46
		Accept: 2,980					
228847	10/23/2018		23538	2,000	2 LB	197.00 NT	197.00
		Adjust: 0			HST: 25.61	Amount:	222.61
		Accept: 2,000					
229022	10/25/2018		23538	3,400	2 LB	197.00 NT	334.80
		Adjust: 0			HST: 43.54	Amount:	378.44
		Accept: 3,400					

Amount: 1,162.30 Tax: 151.10 Total: 1,313.40

Grade Summary				
Grade	Count	Paid Weight		Amount
TIN MATERIAL	4	11,800	LB	1,162.30



Sam Adelstein & Co. Limited

OFFICE & YARD: 492 WELLAND AVENUE, ST. CATHARINES ONTARIO
 ST. CATHARINES, ONTARIO L2M 5V6
 PHONE: (905) 988-9336 FAX: (905) 687-9771
 DEALERS IN FERROUS & NON FERROUS METALS

Invoice

Account Number: 10067
 Name: BROCK UNIVERSITY
 Address: 500 GLENRIDGE AVENUE

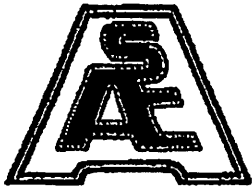
ST. CATHARINES ONTARIO L2S 3A1

Invoice Number: 10023607
 Invoice Date: Nov/30/18
 Due Date:

Ticket Number	Transaction Date	Customer No.	Contract No.			
Description		Reference	Weight	Unit	Price	Amount
228898	11/15/2018		23832	2	1	
TIN MATERIAL			4,300	LB	220.00 NT	473.00
		Adjust: 0				
		Accept: 4,300				
			HST:	61.49	Amount:	534.49

Amount: 473.00 Tax: 61.49 Total: 534.49

Grade Summary				
Grade	Count	Paid Weight		Amount
TIN MATERIAL	1	4,300	LB	473.00



Sam Adelstein & Co. Limited

OFFICE & YARD: 492 WELLAND AVENUE, ST. CATHARINES ONTARIO
 ST. CATHARINES, ONTARIO L2M 5V5
 PHONE: (905) 988-9336 FAX: (905) 687-9771
 DEALERS IN FERROUS & NON FERROUS METALS

Invoice

Account Number: 10087
 Name: BROCK UNIVERSITY
 Address: 500 GLENRIDGE AVENUE
 ST. CATHARINES ONTARIO L2S 3A1

Invoice Number: 10023577
 Invoice Date: Dec/31/18
 Due Date:

Ticket Number	Transaction Date	Customer No.	Contract No.					
Description		Reference	Weight	Unit	Price	Amount		
230879	12/10/2018		23726	2	1			
TIN MATERIAL			3,160	LB	210.00 NT	331.80		
		Adjust: 0						
		Accept: 3,160			HST: 43.13	Amount: 374.93		
231171	12/17/2018		23726	2	1			
TIN MATERIAL			1,900	LB	210.00 NT	199.50		
		Adjust: 0						
		Accept: 1,900			HST: 25.94	Amount: 225.44		

Amount: 531.30 Tax: 69.07 Total: 600.37

Grade Summary				
Grade	Count	Paid Weight		Amount
TIN MATERIAL	2	5,060	LB	531.30

Scrap metals

SCRAP COPPER • BRASS • ALUMINUM • LEAD
STAINLESS • CAST IRON • STEEL • ETC.

www.kenssalvage.com

"WE WILL MEET OR BEAT ANY PRICE & SERVICE"

KEN'S
SALVAGE CO. LTD.



METAL RECYCLING

310 ALLANBURG ROAD, THOROLD L2V 1A4

PHONE: (905) 680-2323

"SMALL ENOUGH TO CARE - LARGE ENOUGH TO SERVE"

BOUGHT FROM:

DATE

Sept 1/18

Brook. Uncl. by
STE

118. Ins Copp. Wire	236.82
HST	30.78
	267.58

70+ YEARS.
WE KNOW OUR STUFF
DON'T BE AFRAID OF YOUR WASTE

SIGNATURE

[Handwritten Signature]

WE RENT BINS FOR GARBAGE & SCRAP

D212185



SCRAP COPPER • BRASS • ALUMINUM • LEAD
STAINLESS • CAST IRON • STEEL • ETC.

www.kenssalvage.com

"WE WILL MEET OR BEAT ANY PRICE & SERVICE"

KEN'S
SALVAGE CO. LTD.



METAL RECYCLING

310 ALLANBURG ROAD., THOROLD L2V 1A4
PHONE: (905) 680-2323

"SMALL ENOUGH TO CARE - LARGE ENOUGH TO SERVE"

BOUGHT FROM:

DATE

Jan 25/19.

Brock University

accy scrap	4834	00
HST 118 819 531	628	42
TOTAL	5462	42
pd by chq #		
22977		
70+ YEARS WE KNOW OUR STUFF THANK YOU FOR YOUR PATRONAGE		

SIGNATURE

WE RENT BINS FOR GARBAGE & SCRAP

D217203





KEN'S SALVAGE CO. LTD.
 310 ALLANBURG ROAD
 THOROLD, ONTARIO L2V 1A4
 (905) 680-2323

RBC ROYAL BANK
 MAIN BRANCH
 80 KING STREET
 ST. CATHARINES, ONTARIO L2R 7G1

22971

DATE 28 01 2019
 D M N Y Y Y

PAY ***Five Thousand Four Hundred Sixty-Two and 42/100**

\$ **5,462.42

TO THE
 ORDER
 OF

Brock University
 1812 Sir Isaac Brock Way,
 St Catharines, ON
 L2S3A1

KEN'S SALVAGE CO. LTD.

MEMO

⑈002297⑈ ⑆04222⑈003⑆ 115⑈255⑈2⑈

KEN'S SALVAGE CO. LTD.

Brock University

28/01/2019

22971

Date	Type	Reference	Original Amt.	Balance Due	Discount	Payment
25/01/2019	Bill		5,462.42	5,462.42		5,462.42
					Cheque Amount	5,462.42

Revenue Category:
 Surplus/Salvage Sales

CC 1802 JJ

Chequing Account

5,462.42

SCRAP COPPER • BRASS • ALUMINUM • LEAD
STAINLESS • CAST IRON • STEEL • ETC.

www.kenssalvage.com

"WE WILL MEET OR BEAT ANY PRICE & SERVICE"

KEN'S
SALVAGE CO. LTD.



METAL RECYCLING

310 ALLANBURG ROAD., THOROLD L2V 1A4

PHONE: (905) 680-2323

"SMALL ENOUGH TO CARE - LARGE ENOUGH TO SERVE"

BOUGHT FROM

DATE

Jan 28/19

Brook University

1012 Sir Isaac Brock Way St Cath

22 Batts	3	30
6 Comm Wire	2	40
70 Mixed Ins	35	00
285 Ins Cop Wire #1	399	00
		430.70
		57.16
		496.86

HST
R118819531

70+ YEARS
WE KNOW OUR STUFF
CALL FOR YOUR PATRONAGE

SIGNATURE

WE RENT BINS FOR GARBAGE & SCRAP

D217245





KEN'S SALVAGE CO. LTD.
 310 ALLANBURG ROAD
 THOROLD, ONTARIO L2V 1A4
 (905) 680-2323

REC ROYAL BANK
 MAIN BRANCH
 80 KING STREET
 ST. CATHARINES, ONTARIO L2R 7G1

22973

DATE 28 01 2019
 D D M M Y Y Y Y

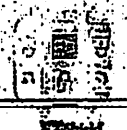
PAY *****Four Hundred Ninety Six and 86/100

\$ 496.86

TO THE
 ORDER
 OF

Brock University
 1812 Sir Isaac Brock Way
 St Catharines, ON
 L2S3A1

KEN'S SALVAGE CO. LTD.



PER

MEMO

⑈0022973⑈ ⑆04222⑈003⑆ 115⑈255⑈2⑈

KEN'S SALVAGE CO. LTD.

Brock University

28/01/2019

22973

Date	Type	Reference	Original Amt.	Balance Due	Discount	Payment
28/01/2019	Bill		496.86	496.86		496.86
				Cheque Amount		496.86

Chequing Account

496.86



KEN'S SALVAGE CO. LTD.
 310 ALLANBURG ROAD
 THOROLD, ONTARIO L2V 1A4
 (905) 680-2323

RBC ROYAL BANK
 MAIN BRANCH
 80 KING STREET
 ST. CATHARINES, ONTARIO L2R 7G1

22340

DATE 26 02 2018
 D D M M Y Y Y Y

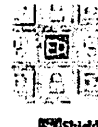
PAY *****One Thousand Eighty-Five and 55/100

\$ **1,085.55

ORDER OF Brock University
 1812 Sir Isaac Brock Way,
 St Catharines, ON
 L2S3A1

KEN'S SALVAGE CO. LTD.

MEMO



PER

⑈0022340⑈ ⑆04222⑈003⑆ ⑆65⑈255⑈2⑈

KEN'S SALVAGE CO. LTD.

Brock University

26/02/2018

22340

Date	Type	Reference	Original Amt.	Balance Due	Discount	Payment
26/02/2018	Bill		1,085.55	1,085.55		1,085.55
				Cheque Amount		1,085.55

Chequing Account

1,085.55

SCRAP COPPER • BRASS • ALUMINUM • LEAD
 STAINLESS • CAST IRON • STEEL • ETC.

WE WILL MEET OR BEAT ANY PRICE & SERVICE*

KEN'S METAL RECYCLING



KEN'S SALVAGE CO. LTD.

310 ALLANBURG ROAD, THOROLD L2V 1A4
 PHONE: (905) 680-2323

*SMALL ENOUGH TO CARE - LARGE ENOUGH TO SERVE!

BOUGHT FROM: Brock University DATE: FEB 26/18

1812 Sir Isaac Brock Way

200 lbs Ins Cap Wire #1	492.00
200 lbs Ins Cap Wire #2	433.50
24 lbs wal Ins Cap Wire	24.00
17 Tech Cable	11.05
	960.55
	124.85
	1085.55

SIGNATURE

D 204195

SCRAP COPPER • BRASS • ALUMINUM • LEAD
STAINLESS • CAST IRON • STEEL • ETC.

www.kenssalvage.com

"WE WILL MEET OR BEAT ANY PRICE & SERVICE"

KEN'S
SALVAGE CO. LTD.



METAL RECYCLING

310 ALLANBURG ROAD., THOROLD L2V 1A4

PHONE: (905) 680-2323

"SMALL ENOUGH TO CARE - LARGE ENOUGH TO SERVE"

BOUGHT FROM: Brock University DATE: Nov 11 19
 Sir Isaac Brock Hwy. Q2A7K

52	Ins Cop Wire	52.00
118	Cu Transformer	15.35
1790	Batts	447.50
		<hr/>
		514.85
	167	<hr/>
		66.93
		<hr/>
		581.78
CH 17 YEARS.		
TO KNOW OUR STUFF		
WE KNOW OUR STUFF		
THANK YOU FOR YOUR TRUST		
SIGNATURE <u> [Signature] </u>		

WE RENT BINS FOR GARBAGE & SCRAP

D218233





KEN'S SALVAGE CO. LTD.
 310 ALLANBURG ROAD
 THOROLD, ONTARIO L2V 1A4
 (905) 680-2323

RBC ROYAL BANK
 MAIN BRANCH
 80 KING STREET
 ST. CATHARINES, ONTARIO L2R 7G1

23056

DATE 1 1 0 3 2 0 1 9
 D D M M Y Y Y Y

PAY *****Five Hundred Eighty-One and 78/100

\$ **581.78

TO THE
 ORDER
 OF

Brock University
 1812 Sir Isaac Brock Way,
 St Catharines, ON
 L2S3A1

KEN'S SALVAGE CO. LTD.

MEMO

⑈0023056⑈ ⑆04222⑆003⑆ ⑆15⑆255⑆2⑈

KEN'S SALVAGE CO. LTD.

Brock University

11/03/2019

23056

Date	Type	Reference	Original Amt.	Balance Due	Discount	Payment
11/03/2019	Bill		581.78	581.78		581.78
					Cheque Amount	581.78

Chequing Account

581.78

Organic Pick-Ups

rrcname (All)

Sum of billingnot			
Ref #	Customer	Size	Grand Total
139907-000	Cairns Building - Brock University	32	64
		64	50
	Central Utilities Building		168
	Decew Residence	32	1072
	Inniskillen Hall		136
		64	118
	International Building - Brock University		54
	Lowenberger Residence		975
	Marilyn I Walker School of Fine & Perfoming Arts	32	54
	The Rosalind Blauer Day Care Centre		62
	Tower Dock		1215
	Walker Complex		461
Totals →			4429

Subject **FW: Oil & Grease disposal**
From Jay Ismailovic <jismailovic@brocku.ca>
To stephen@wastereductiongroup.ca <stephen@wastereductiongroup.ca>
Date 2019-04-03 11:21



Data on oil & grease count.

Jay Ismailovic

Manager, Custodial Services

Brock University | Facilities Management

Niagara Region | 1812 Sir Isaac Brock Way | St. Catharines, ON L2S 3A1

brocku.ca | T 905 688 5550 x 4803 | F 905 688-6894

Our Mission is to provide a safe, clean, productive and well-maintained physical environment for the University community by planning and delivering professional services that are sustainable and supportive of Academic excellence, now and into the future. Please visit our website at <http://www.brocku.ca/facilities-management>

This message (including any attachments) is CONFIDENTIAL and may be PRIVILEGED. If you are not an intended recipient you are hereby notified that any distribution, copying or use by you of this information is strictly prohibited. If you have received this message in error please immediately notify the sender and delete all copies of this information from your system.

From: Frank Thomas <fthomas@brocku.ca>

Sent: Wednesday, April 03, 2019 12:51 PM

To: Jay Ismailovic <jismailovic@brocku.ca>

Subject: FW: Oil & Grease disposal

Hi Jay,

Here is the oil & grease count, however doesn't include the Student Center. I'll ask over there.

Thanks,

Frank

Frank Thomas

Custodial Services

Supervisor

Brock University

1812 Sir Isaac Brock Way

St. Catharines, ON L2S 3A1

(905) 688-5550 Ext. 3541

fthomas@brocku.ca

Confidentiality Notice: This e-mail, including any attachments, may contain confidential or privileged information. If you are not the intended recipient, please notify the sender by e-mail and immediately delete this message and its contents. Thank you.

From: Thorp, Tanya <Tanya.Thorp@sodexo.com>

Sent: Wednesday, April 03, 2019 12:33 PM

To: Frank Thomas <fthomas@brocku.ca>

Subject: RE: Oil & Grease disposal

Hi Frank

Collection for 2018

DeCew 1306 kg

Lowenberger 1602 kg

Tower 2116 kg

TOTAL 5024 kg

Thanks

Tanya

Tanya Thorp, BScHE

Director of Hospitality Services

Sodexo Canada, Campus Services.

Brock University

1812 Sir Isaac Brock Way

4/8/2019

Roundcube Webmail :: FW: Oil & Grease disposal

St. Catharines, ON L2S 3A1
T 905 688 5550 x5272
Tanya.Thorp@sodexo.com

From: Frank Thomas [<mailto:fthomas@brocku.ca>]
Sent: Wednesday, April 03, 2019 11:44 AM
To: Thorp, Tanya
Subject: Oil & Grease disposal

Hi Tanya,

Would you have information or know who have, for the amount of oil & grease collected by Rothsay here on Campus? I was asked to gather information for the Annual Waste Audit Report of 2018.

Thanks,
Frank

Frank Thomas
Custodial Services
Supervisor
Brock University
1812 Sir Isaac Brock Way
St. Catharines, ON L2S 3A1
(905) 688-5550 Ext. 3541

fthomas@brocku.ca

Confidentiality Notice: This e-mail, including any attachments, may contain confidential or privileged information. If you are not the intended recipient, please notify the sender by e-mail and immediately delete this message and its contents. Thank you.

This e-mail, attachments included, is confidential. It is intended solely for the addressees. If you are not an intended recipient, any use, copy or diffusion, even partial of this message is prohibited. Please delete it and notify the sender immediately. Since the integrity of this message cannot be guaranteed on the Internet, SODEXO cannot therefore be considered liable for its content.

Ce message, pieces jointes incluses, est confidentiel. Il est établi à l'attention exclusive de ses destinataires. Si vous n'êtes pas un destinataire, toute utilisation, copie ou diffusion, même partielle de ce message est interdite. Merci de le détruire et d'en avertir immédiatement l'expéditeur. L'intégrité de ce message ne pouvant être garantie sur Internet, SODEXO ne peut être tenu responsable de son contenu.

Lamp/Bulb Waste Totals 2018

Address: 1812 Sir Isaac Brock Way

Manifest	Date	WCC	Description	Volume	Units
YH35642-6	10-Jan-18	146T	Waste Fluorescent Tubes	5	Kg
YH35643-4	10-Jan-18	146T	Waste Fluorescent Tubes	25	Kg
YH35925-5	31-Jan-18	146T	Waste Fluorescent Tubes	200	Kg
YH36201-0	14-Feb-18	146T	Waste Fluorescent Tubes	60	Kg
YH36201-0	14-Feb-18	146T	Waste Compact Fluorescent Bulbs	20	Kg
YH36137-6	21-Feb-18	146T	Waste Fluorescent Tubes	50	Kg
YH36306-7	28-Feb-18	146T	Waste Fluorescent Tubes	20	Kg
YH36372-9	07-Mar-18	146T	Waste Compact Fluorescent Bulbs	5	Kg
YH36373-7	07-Mar-18	146T	Waste Fluorescent Tubes	15	Kg
SA19618-6	28-Mar-18	146T	Waste Fluorescent Tubes	25	Kg
SA19618-6	28-Mar-18	146T	Waste Compact Fluorescent Bulbs	30	Kg
SA19807-5	18-Apr-18	146T	Waste Fluorescent Tubes	20	Kg
SA19808-3	18-Apr-18	146T	Waste Fluorescent Tubes	100	Kg
SA19973-5	02-May-18	146T	Waste Fluorescent Tubes	75	Kg
SA19974-3	16-May-18	146T	Waste Fluorescent Tubes	75	Kg
YH34376-2	16-May-18	146T	Waste Compact Fluorescent Bulbs	30	Kg
YH34448-9	23-May-18	146T	Waste Fluorescent Tubes	10	Kg
YH34492-7	30-May-18	146T	Waste Fluorescent Tubes	10	Kg
YH34492-7	30-May-18	146T	Waste Fluorescent Tubes	30	Kg
YH34573-4	06-Jun-18	146T	Waste Fluorescent Tubes	100	Kg
YH34573-4	06-Jun-18	146T	Waste Compact Fluorescent Bulbs	100	Kg
YH34632-8	13-Jun-18	146T	Waste Fluorescent Tubes	40	Kg
YH34632-8	13-Jun-18	146T	Waste Fluorescent Tubes	5	Kg
ZM41786-4	20-Jun-18	146T	Waste Fluorescent Tubes	20	Kg
ZM41786-4	20-Jun-18	146T	Waste Compact Fluorescent Bulbs	5	Kg
SA19067-6	04-Jul-18	146T	Waste Fluorescent Tubes	75	Kg
YH34449-7	11-Jul-18	146T	Waste Fluorescent Tubes	25	Kg
SA19169-0	18-Jul-18	146T	Waste Fluorescent Tubes	50	Kg
SA19324-1	25-Jul-18	146T	Waste Fluorescent Tubes	30	Kg
SA19324-1	25-Jul-18	146T	Waste Compact Fluorescent Bulbs	5	Kg
SA19482-7	08-Aug-18	146T	Waste Fluorescent Tubes	5	Kg
SA19325-8	15-Aug-18	146T	Waste Fluorescent Tubes	20	Kg
YH34631-0	15-Aug-18	146T	Waste Fluorescent Tubes	13	Kg
CE04550-9	22-Aug-18	146T	Waste Fluorescent Tubes	25	Kg
SA19484-3	29-Aug-18	146T	Waste Fluorescent Tubes	90	Kg
SA19118-7	12-Sep-18	146T	Waste Fluorescent Tubes	10	Kg
CE04893-3	19-Sep-18	146T	Waste Fluorescent Tubes	20	Kg
CE04893-3	19-Sep-18	146T	Waste Compact Fluorescent Bulbs	1	Kg
SA19068-4	03-Oct-18	146T	Waste Fluorescent Tubes	30	Kg
CE04650-7	10-Oct-18	146T	Waste Fluorescent Tubes	56	Kg
CE04046-8	24-Oct-18	146T	Waste Fluorescent Tubes	70	Kg
CE04164-9	07-Nov-18	146T	Waste Compact Fluorescent Bulbs	30	Kg
CE04164-9	07-Nov-18	146T	Waste Fluorescent Tubes	30	Kg
CE04251-4	14-Nov-18	146T	Waste Fluorescent Tubes	10	Kg
CE04251-4	14-Nov-18	146T	Waste Fluorescent Tubes	20	Kg
CE04342-1	28-Nov-18	146T	Waste Fluorescent Tubes	25	Kg
CE26987-7	12-Dec-18	146T	Waste Fluorescent Bulbs	2	Kg
CE26987-7	12-Dec-18	146T	Waste Fluorescent Tubes	30	Kg
CE27362-2	19-Dec-18	146T	Waste Fluorescent Tubes	13	Kg
TOTAL				1760	Kg

Address: Marilyn I Walker - 15 Artists' Common - No waste lamps disposed of in 2018

Address: Hamilton Campus - 1842 King Street East - No waste lamps disposed of in 2018

Subject **FW: Annual Waste Audit Report 2018**
From Jay Ismailovic <jismailovic@brocku.ca>
To stephen@wastereductiongroup.ca <stephen@wastereductiongroup.ca>
Date 2019-04-08 06:15
Priority Highest

**Jay Ismailovic**

Manager, Custodial Services

Brock University | Facilities Management

Niagara Region | 1812 Sir Isaac Brock Way | St. Catharines, ON L2S 3A1

brocku.ca | T 905 688 5550 x 4803 | F 905 688-6894

In-house ewaste program

Our Mission is to provide a safe, clean, productive and well-maintained physical environment for the University community by planning and delivering professional services that are sustainable and supportive of Academic excellence, now and into the future. Please visit our website at <http://www.brocku.ca/facilities-management>

This message (including any attachments) is CONFIDENTIAL and may be PRIVILEGED. If you are not an intended recipient you are hereby notified that any distribution, copying or use by you of this information is strictly prohibited. If you have received this message in error please immediately notify the sender and delete all copies of this information from your system.

From: Philip Nardangeli <pnardangeli@brocku.ca>
Sent: Monday, April 08, 2019 8:09 AM
To: Frank Thomas <fthomas@brocku.ca>
Cc: Jay Ismailovic <jismailovic@brocku.ca>; Zaher Elahi <zelah@brocku.ca>
Subject: RE: Annual Waste Audit Report 2018

Hi Frank;

We sold 197 computers & 13 used cellphones on GovDeals in 2018.

I'm unsure of the number of scrapped & redeployed units. I have cc'd Zaher Elahi in the hopes he can provide those numbers for you.

Thanks

Phil

Phil Nardangeli

Supervisor, Audio Visual Services

Brock University | Information Technology Services

Niagara Region | 1812 Sir Isaac Brock Way | St. Catharines, ON L2S 3A1

brocku.ca | T 905 688 5550 x3588

From: Frank Thomas
Sent: Friday, April 5, 2019 2:57 PM
To: Philip Nardangeli <pnardangeli@brocku.ca>
Cc: Jay Ismailovic <jismailovic@brocku.ca>
Subject: Annual Waste Audit Report 2018

Hi Phil,

Last year you gave Domenic info on computers that were scrapped, sold or redeployed for the audit report. Would you have the same information for 2018 you could give us.

Thank you,
Frank

Frank Thomas
Custodial Services
Supervisor
Brock University
1812 Sir Isaac Brock Way
St. Catharines, ON L2S 3A1
(905) 688-5550 Ext. 3541

fthomas@brocku.ca

Batteries

BROCK UNIVERSITY 2018 RECEIVING REPORT - LBS			
Company Code	Item	Receive Qty	Receive Uom
S/O BROCK UNIVERSITY	SEALED LEAD ACID CELLS	1,995	PER LB
S/O BROCK UNIVERSITY	MHSW ALKALINE CELLS	532	PER LB
S/O BROCK UNIVERSITY	NICKEL METAL HYDRIDE CELLS	28	PER LB
S/O BROCK UNIVERSITY	COMPUTER COMPONENTS	6	PER LB
S/O BROCK UNIVERSITY	LITHIUM ION CELLS	3	PER LB
S/O BROCK UNIVERSITY	MHSW SILVER OXIDE CELLS	3	PER LB
S/O BROCK UNIVERSITY	NI-CAD - SEALED CELLS	2	PER LB
S/O BROCK UNIVERSITY	MHSW LITHIUM CELLS	2	PER LB
		2,571	



GREENTEC

95 STRUCK COURT Cambridge, ON N1R 8L2
Tel (519)-624-3300 Fax (519)-624-3301

Ewastes

CERTIFICATE OF RECYCLING

Customer Code: 04-BUSA
Customer Name: Brock University
Customer Address: 1812 Sir Brock Way
St. Catharines, ON L2S 3A1

Date Processed: 1/26/2018
PO Number: 0000298724
Shipment Date: 1/18/2018
Waybill No: 00028345
Order No:

Service Description :

This certifies that: (i) Referenced products were inspected, tested and processed accordingly for the recovery of product, parts and commodity grade scrap metals, plastics and glass. (ii) All asset and ID tags were removed and destroyed. Any data storage devices were wiped clean rendering information unrecoverable. (iii) All non-reusable products were processed and recycled in compliance with applicable laws and regulations of Canada and the Province of Ontario.

Settlement Summary

Part Number	Description	Total Received	Recovery Value	Extended Value
58-SO-DESKTOP	Desktop Computers Complete Unit	223.00 LBS	\$ 0.1590	\$ 35.4600
58-SO-LCDM	LCD Monitor	114.00 LBS	\$ 0.0500	\$ 5.7000
58-SO-LCDTV	LCD Television	49.00 LBS	\$ 0.0500	\$ 2.4500
58-SO-NONOES	Non Program Waste Electronic Material EOL Processing	581.00 LBS	\$-0.3500	\$-203.3500
58-SO-NWE	Networking Equipment (NP)	95.00 LBS	\$ 0.0000	\$ 0.0000
58-SO-OESCP	Printers and Peripherals Devices With Plastic	298.00 LBS	\$ 0.1590	\$ 47.3800
58-SO-SHAM	Small Household Appliances Metal Content (NP)	399.00 LBS	\$ 0.0000	\$ 0.0000
62-SE-FSC	FUEL SURCHARGE 15.2%	1.00 EA	\$-14.3100	\$-14.3100
64-MO-MC	Greentec Cage	2.00 EA	\$ 0.0000	\$ 0.0000
64-MO-MC	Greentec Cage	-2.00 EA	\$ 0.0000	\$ 0.0000
Units: 1.000		Weight: 1,759.00 LBS	Total Value:	\$-126.67

Please note the total value will be applied to your account.

If you have any questions or concerns please contact customer service.

Greentec
Phone: 1.519.624.3300

Linda Braga
Customer Service Manager



GREENTEC

95 STRUCK COURT Cambridge, ON N1R 8L2
Tel (519)-624-3300 Fax (519)-624-3301

CERTIFICATE OF RECYCLING

Customer Code: 04-BUSA
Customer Name: Brock University
Customer Address: 1812 Sir Brock Way
St. Catharines, ON L2S 3A1

Date Processed: 2/9/2018
PO Number: 0000298996
Shipment Date: 2/7/2018
Waybill No: 00028783
Order No:

Service Description :

This certifies that: (i) Referenced products were inspected, tested and processed accordingly for the recovery of product, parts and commodity grade scrap metals, plastics and glass. (ii) All asset and ID tags were removed and destroyed. Any data storage devices were wiped clean rendering information unrecoverable. (iii) All non-reusable products were processed and recycled in compliance with applicable laws and regulations of Canada and the Province of Ontario.

Settlement Summary

Part Number	Description	Total Received	Recovery Value	Extended Value
58-SO-CRTTV	CRT Television	125.00 LBS	\$ 0.0500	\$ 6.2500
58-SO-DESKTOP	Desktop Computers Complete Unit	10.00 LBS	\$ 0.1590	\$ 1.5900
58-SO-OESCP	Printers and Peripherals Devices With Plastic	95.00 LBS	\$ 0.1590	\$ 15.1100
60-SE-OS	Onsite Services Includes Material Packaging and Wait Tir	0.50 EA	\$-75.0000	\$-37.5000
62-SE-FSC	FUEL SURCHARGE LTL 15.5%	1.00 EA	\$-4.1300	\$-4.1300
Units: 1.500		Weight: 230.00 LBS	Total Value:	\$-18.68

Please note the total value will be applied to your account.

If you have any questions or concerns please contact customer service.

Greentec
Phone: 1.519.624.3300

Linda Braga
Customer Service Manager



GREEN TEC

95 STRUCK COURT Cambridge, ON N1R 8L2
Tel (519)-624-3300 Fax (519)-624-3301

CERTIFICATE OF RECYCLING

Customer Code: 04-BUSA
Customer Name: Brock University
Customer Address: 1812 Sir Brock Way
St. Catharines, ON L2S 3A1

Date Processed: 3/6/2018
PO Number: 0000298817
Shipment Date: 1/18/2018
Waybill No: CARTRIDGES
Order No:

Service Description :

This certifies that: (i) Referenced products were inspected, tested and processed accordingly for the recovery of product, parts and commodity grade scrap metals, plastics and glass. (ii) All asset and ID tags were removed and destroyed. Any data storage devices were wiped clean rendering information unrecoverable. (iii) All non-reusable products were processed and recycled in compliance with applicable laws and regulations of Canada and the Province of Ontario.

Settlement Summary

Part Number	Description	Total Received	Recovery Value	Extended Value
02-NR-INKJET	Non-Rebateable Inkjet Cartridges	1.00 EA	\$ 0.0000	\$ 0.0000
02-NR-INKTANKS	Non-Rebateable and Scrap Inktanks	18.00 EA	\$-0.1500	\$-2.7000
04-BR-DR420	DR2255, HL2220/30 HL2240 Drum Unit	2.00 EA	\$ 0.0000	\$ 0.0000
04-BR-DR630	DR2300, HL 5370DW Drum Unit	1.00 EA	\$ 1.0000	\$ 1.0000
04-BR-TN221/225C	HL-3140CW, HL-3170CDW, MFC-9130CW Cyan	1.00 EA	\$ 0.0000	\$ 0.0000
04-BR-TN221/225Y	HL-3140CW, HL-3170CDW, MFC-9130CW Yellow	1.00 EA	\$ 0.0000	\$ 0.0000
04-BR-TN360	HL2140/2150/2070W	4.00 EA	\$ 0.0000	\$ 0.0000
04-BR-TN450	2270DW	11.00 EA	\$ 0.0000	\$ 0.0000
04-BR-TN660	HL-L2300D, HL-L2305W, HL-L2320D, HL-L2340DW, HL-L	9.00 EA	\$ 0.0000	\$ 0.0000
04-CA-FX10	Canon L100/L120 or 104 (0263B001A)	1.00 EA	\$ 0.0000	\$ 0.0000
04-DE-3108707	1720 or Lexmark E250/350/450 Toner	4.00 EA	\$ 1.5000	\$ 6.0000
04-DE-J3815	1700/1710 or Lexmark E230/232/330/332	1.00 EA	\$ 0.0000	\$ 0.0000
04-DE-P7RMX	E310/E514/E515 Series HY Print Cartridge	1.00 EA	\$ 2.0000	\$ 2.0000
04-HP-CB435A	LaserJet P1005	1.00 EA	\$ 0.0000	\$ 0.0000
04-HP-CB540A	Colour LJ CP1215/1515 Black	1.00 EA	\$ 1.0000	\$ 1.0000
04-HP-CB541A	Colour LJ CP1215/1515 Cyan	1.00 EA	\$ 1.0000	\$ 1.0000
04-HP-CC530/CE410ANV	Colour LJ CP2025/CM2320/M451/CP2025 Series NV	2.00 EA	\$ 0.0000	\$ 0.0000
04-HP-CC530A	Colour LJ CP2025/CM2320 Black	2.00 EA	\$ 1.0000	\$ 2.0000
04-HP-CC531A	Colour LJ CP2025/CM2320 Cyan	1.00 EA	\$ 1.0000	\$ 1.0000
04-HP-CC533A	Colour LJ CP2025/CM2320 Magenta	1.00 EA	\$ 1.0000	\$ 1.0000
04-HP-CE250X	Colour LJ CP3525/CM3530 HY Black	1.00 EA	\$ 2.0000	\$ 2.0000
04-HP-CE255X	LaserJet Pro MFP M521, P3015 HY	2.00 EA	\$ 0.0000	\$ 0.0000
04-HP-CE278A	LaserJet P1600/1606	2.00 EA	\$ 0.0000	\$ 0.0000
04-HP-CE285A	LaserJet P1100/1102	2.00 EA	\$ 0.0000	\$ 0.0000
04-HP-CE390A	LaserJet M4555F (602)	1.00 EA	\$ 5.0000	\$ 5.0000
04-HP-CE410A	Colour LJ (305A) M451 Black	1.00 EA	\$ 1.0000	\$ 1.0000
04-HP-CE410X	Colour LJ (305X) M451 Black HY	1.00 EA	\$ 1.0000	\$ 1.0000
04-HP-CE411A	Colour LJ (305A) M451 Cyan	1.00 EA	\$ 1.0000	\$ 1.0000
04-HP-CE412A	Colour LJ M451 305A Yellow	2.00 EA	\$ 1.0000	\$ 2.0000
04-HP-CE413A	Colour LJ M451 305A Magenta	1.00 EA	\$ 1.0000	\$ 1.0000
04-HP-CE505X	LaserJet 2055 HY	1.00 EA	\$ 1.0000	\$ 1.0000
04-HP-CE740A	Colour LJ CP5225 Black	1.00 EA	\$ 5.0000	\$ 5.0000
04-HP-CF226A	Laserjet Pro M402, MFP426	1.00 EA	\$ 7.0000	\$ 7.0000
04-HP-CF280A	LaserJet #80A M401 Black	1.00 EA	\$ 0.0000	\$ 0.0000
04-HP-CF281A	LaserJet MFP M630 Black	2.00 EA	\$ 5.0000	\$ 10.0000



95 STRUCK COURT Cambridge, ON N1R 8L2
Tel (519)-624-3300 Fax (519)-624-3301

CERTIFICATE OF RECYCLING

Customer Code: 04-BUSA
Customer Name: Brock University
Customer Address: 1812 Sir Brock Way
St. Catharines, ON L2S 3A1

Date Processed: 3/6/2018
PO Number: 0000298817
Shipment Date: 1/18/2018
Waybill No: CARTRIDGES
Order No:

Service Description :

This certifies that: (i) Referenced products were inspected, tested and processed accordingly for the recovery of product, parts and commodity grade scrap metals, plastics and glass. (ii) All asset and ID tags were removed and destroyed. Any data storage devices were wiped clean rendering information unrecoverable. (iii) All non-reusable products were processed and recycled in compliance with applicable laws and regulations of Canada and the Province of Ontario.

Settlement Summary

Part Number	Description	Total Received	Recovery Value	Extended Value
04-HP-CF281X	LaserJet MFP M630 Black HY	6.00 EA	\$ 4.0000	\$ 24.0000
04-HP-CF283A	LaserJet Pro M125/M126/127	1.00 EA	\$ 0.0000	\$ 0.0000
04-HP-CF360A	Colour LJ Enterprise Flow M577c Black (508)	1.00 EA	\$ 1.0000	\$ 1.0000
04-HP-CF360X	Colour LJ Enterprise Flow M577c Black(508X)	2.00 EA	\$ 2.0000	\$ 4.0000
04-HP-CF361A	Colour LJ Enterprise Flow M577c Cyan (508)	2.00 EA	\$ 1.0000	\$ 2.0000
04-HP-CF362A	Colour LJ Enterprise Flow M577c Yellow (508)	2.00 EA	\$ 1.0000	\$ 2.0000
04-HP-CF363A	Colour LJ Enterprise Flow M577c Magenta (508)	2.00 EA	\$ 1.0000	\$ 2.0000
04-HP-Q2612A	LaserJet 1010/1012/1015	1.00 EA	\$ 0.0000	\$ 0.0000
04-HP-Q5942X	LaserJet 4350 HY	3.00 EA	\$ 0.0000	\$ 0.0000
04-HP-Q5949A	LaserJet 1160	1.00 EA	\$ 0.0000	\$ 0.0000
04-HP-Q6000A	Colour LJ 2600n Black	1.00 EA	\$ 1.0000	\$ 1.0000
04-HP-Q7553A	LaserJet 2015	2.00 EA	\$ 0.0000	\$ 0.0000
04-IB-28P2492	IBM 1120/15 (T520)	1.00 EA	\$ 1.0000	\$ 1.0000
04-LE-50F0Z00	MS/MX310-510 Drum Unit (500Z)	1.00 EA	\$ 0.0000	\$ 0.0000
04-LE-520Z	MS/MX710-810 Imaging Drum Unit	2.00 EA	\$ 0.0000	\$ 0.0000
04-LE-64015HA	T640 Standard Yield	2.00 EA	\$ 3.0000	\$ 6.0000
04-LE-70C0H30	CS/CX310/410/510 (BK/C/Y/M) Toner	5.00 EA	\$ 1.0000	\$ 5.0000
04-LE-E260A21A	E260/360/460 Print Cartridge	9.00 EA	\$ 2.5000	\$ 22.5000
04-LE-MS/MX310-610	MS/MX310/410/510/610 Series 501H	7.00 EA	\$ 5.0000	\$ 35.0000
04-LE-MS/MX710-812	MS/MX710/711/810/812 Series 521H	1.00 EA	\$ 5.0000	\$ 5.0000
04-LE-T650A21ANV	T650 Standard (7-25K Yield) NV	1.00 EA	\$ 0.0000	\$ 0.0000
04-NR-LASER	Non-Rebateable Laser Cartridges	34.00 EA	\$-0.7500	\$-25.5000
04-SA-ML205LE	ML3310/3710 High Yield	1.00 EA	\$ 2.0000	\$ 2.0000
04-SA-MLTD309	ML-5512, ML-6510, ML-6512 Toner	1.00 EA	\$ 0.0000	\$ 0.0000
10-NR-CPS	Non-Refurbishable Cellphone Scrap (No Battery)	0.40 LBS	\$ 2.5000	\$ 1.0000
54-FG-WASTE	Misc Waste Material	59.00 LBS	\$-0.1500	\$-8.8500
60-SE-SS	Sort and Settle	1.00 EA	\$ 0.0000	\$ 0.0000
Units:		174.000	Weight: 59.40 LBS	Total Value: \$127.45



GREENTEC

95 STRUCK COURT Cambridge, ON N1R 8L2
Tel (519)-624-3300 Fax (519)-624-3301

CERTIFICATE OF RECYCLING

Customer Code: 04-BUSA
Customer Name: Brock University
Customer Address: 1812 Sir Brock Way
St. Catharines, ON L2S 3A1

Date Processed: 3/6/2018
PO Number: 0000298817
Shipment Date: 1/18/2018
Waybill No: CARTRIDGES
Order No:

Service Description :

This certifies that: (i) Referenced products were inspected, tested and processed accordingly for the recovery of product, parts and commodity grade scrap metals, plastics and glass. (ii) All asset and ID tags were removed and destroyed. Any data storage devices were wiped clean rendering information unrecoverable. (iii) All non-reusable products were processed and recycled in compliance with applicable laws and regulations of Canada and the Province of Ontario.

Settlement Summary

Part Number	Description	Total Received	Recovery Value	Extended Value
-------------	-------------	----------------	----------------	----------------

Please note the total value will be applied to your account.

If you have any questions or concerns please contact customer service.

Greentec
Phone: 1.519.624.3300

Linda Braga
Customer Service Manager



GREENTEC

95 STRUCK COURT Cambridge, ON N1R 8L2
Tel (519)-624-3300 Fax (519)-624-3301

CERTIFICATE OF RECYCLING

Customer Code: 04-BUSA
Customer Name: Brock University
Customer Address: 1812 Sir Brock Way
St. Catharines, ON L2S 3A1

Date Processed: 4/3/2018
PO Number: 0000299552
Shipment Date: 3/27/2018
Waybill No: 00029689
Order No:

Service Description :

This certifies that: (i) Referenced products were inspected, tested and processed accordingly for the recovery of product, parts and commodity grade scrap metals, plastics and glass. (ii) All asset and ID tags were removed and destroyed. Any data storage devices were wiped clean rendering information unrecoverable. (iii) All non-reusable products were processed and recycled in compliance with applicable laws and regulations of Canada and the Province of Ontario.

Settlement Summary

Part Number	Description	Total Received	Recovery Value	Extended Value
58-SO-CRTM	CRT Monitor	267.00 LBS	\$ 0.0500	\$ 13.3500
58-SO-DESKTOP	Desktop Computers Complete Unit	456.00 LBS	\$ 0.1590	\$ 72.5000
58-SO-LCDM	LCD Monitor	192.00 LBS	\$ 0.0500	\$ 9.6000
58-SO-NWE	Networking Equipment (NP)	142.00 LBS	\$ 0.0000	\$ 0.0000
58-SO-PNPDP	Printers and Peripherals Devices With Plastic	302.00 LBS	\$ 0.1590	\$ 48.0200
58-SO-PORTABLE	Laptops Computers	59.00 LBS	\$ 0.1590	\$ 9.3800
58-SO-SHAP	Small Household Appliances Plastic Content	155.00 LBS	\$ 0.0000	\$ 0.0000
62-SE-FSC	FUEL SURCHARGE LTL 15.1%	1.00 EA	\$-8.7700	\$-8.7700
Units: 1.000		Weight: 1,573.00 LBS	Total Value:	\$144.08

Please note the total value will be applied to your account.

If you have any questions or concerns please contact customer service.

Greentec
Phone: 1.519.624.3300

Linda Braga
Customer Service Manager



GREENTEC

95 STRUCK COURT Cambridge, ON N1R 8L2
Tel (519)-624-3300 Fax (519)-624-3301

CERTIFICATE OF RECYCLING

Customer Code: 04-BUSA
Customer Name: Brock University
Customer Address: 1812 Sir Brock Way
St. Catharines, ON L2S 3A1

Date Processed: 5/1/2018
PO Number: 0000299799
Shipment Date: 4/20/2018
Waybill No: 00030108
Order No:

Service Description :

This certifies that: (i) Referenced products were inspected, tested and processed accordingly for the recovery of product, parts and commodity grade scrap metals, plastics and glass. (ii) All asset and ID tags were removed and destroyed. Any data storage devices were wiped clean rendering information unrecoverable. (iii) All non-reusable products were processed and recycled in compliance with applicable laws and regulations of Canada and the Province of Ontario.

Settlement Summary

Part Number	Description	Total Received	Recovery Value	Extended Value
58-SO-DESKTOP	Desktop Computers Complete Unit	376.00 LBS	\$ 0.1590	\$ 59.7800
58-SO-LCDM	LCD Monitor	245.00 LBS	\$ 0.0500	\$ 12.2500
58-SO-NWE	Networking Equipment (NP)	883.00 LBS	\$ 0.0000	\$ 0.0000
58-SO-PNPD	Printers and Peripherals Devices	552.00 LBS	\$ 0.1590	\$ 87.7700
58-SO-PNPDP	Printers and Peripherals Devices With Plastic	186.00 LBS	\$ 0.1590	\$ 29.5700
58-SO-SCR	Cable and Satelite Receivers (No HD)	621.00 LBS	\$ 0.0000	\$ 0.0000
62-SE-FSC	FUEL SURCHARGE LTL 15.6%	1.00 EA	\$-19.3600	\$-19.3600
Units: 1.000		Weight: 2,863.00 LBS	Total Value:	\$170.01

Please note the total value will be applied to your account.

If you have any questions or concerns please contact customer service.

Greentec
Phone: 1.519.624.3300

Linda Braga
Customer Service Manager

Brock University, St. Catharines, Ontario
Waste Audit – Photos (Nov/Dec. 2018)



Typical papers in garbage stream



Typical papers in garbage stream



Typical papers in garbage stream



Typical Al cans in garbage stream



Typical HDPE in garbage stream



Various plastics and coffee cups in garbage stream

Brock University, St. Catharines, Ontario
Waste Audit – Photos (Nov/Dec. 2018)



Typical organics in garbage stream



Typical organics in garbage stream



Typical scrap metals in garbage stream



Typical soil media in garbage stream



Typical lab plastics in garbage stream



Typical lab plastics in garbage stream

The main findings identified in **Brock University Hamilton Campus** as seen in the **Figure A:**

1. All Brock University site do have coffee cups bins except this campus.
2. The audit team did noticed the bins are not properly labelled and there are random bins placed at locations where they are not easily seen by passersby.
3. Lack of bins in the science building indicate the lack of participation by the occupants concerning waste management.
4. A lot has been done in other buildings (bins, labels) and more needs to be done for the institution to meets its sustainability goals.

Figure A: Shows picture of the Brock Hamilton Campus with no appropriate bins.



Source: Audit team, 2018.

Recommendations:

Findings from the Brock University Hamilton Campus lead to the following recommendation.

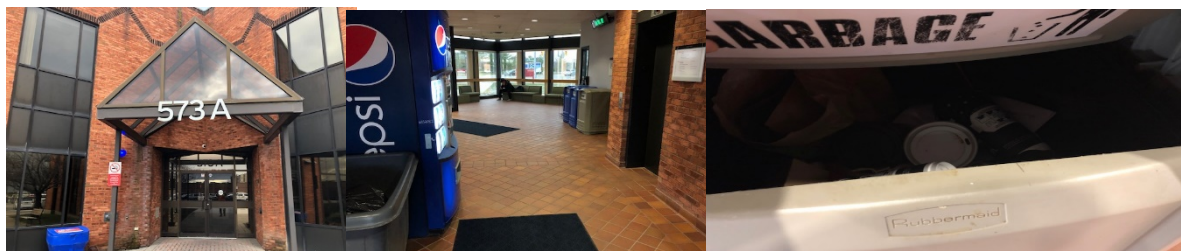
Based on the field observation, the audit team proposes that it is required to implement improved-communication system between top-down managers and members involved in efficient distribution and collection of bins. There should be a revision or recalculation method for the number of bins distributed to each department to address the overall waste issue on campus. With an improved communication system, the audit team concludes that there will be a

better understanding on the amount and type of waste generated on campus. Waste Reduction Group can supply the Hamilton Campus with well labelled bins and attractive signages to enhance waste diversion.

Findings for **573 A. Figure B** shows a picture of the building.

1. The audit team noticed the bins placed at the entrance are well labelled as shown in the **Figure B**
2. There are bins on each floor which help reduces the waste diversion rate in the building. By law, all bins are supposed to be grouped together to enhance diversion which they have done.
3. A lot has been done in other buildings (proper labelling) and more needs to be done for the institution to meets its sustainability goals. One is waste education for both stuff and cleaners. The findings will lead to the efficacy of Brock University waste management improvement.

Figure B: Shows a picture of **573 A** building and allocated bins.



Source: Audit team, 2018.

Recommendations

Brock University can improve their waste disposal methods, by making revisions to their waste management procedures. An additional training course or more defined set of standards in regards to waste management operation specifically for the University staff and cleaners would be beneficial. Also, if some of the coffee cups bins are placed in the building it will prevent

people from tossing coffee cups into the garbage bins. The recommendations from Waste Reduction Group could aid in balancing the “3R” inconsistencies for the university.

Findings identified in the **Brock International University** as shown in **Figure C**:

1. The audit team noticed the bins are placed rightly to increase diversion as shown in **Figure C**.
2. The auditors noted that within 9 yards there are four sets of bins to enhance the 3R.
3. Both the students and vendors need education concerning waste management. This means attractive signage to enable waste diversion.
4. The cafeteria (open space) needs an organic bin. The audit team realized there is one in the closed area where student microwave their food but there is none at the open space where they sit to eat.

Figure C: Shows pictures of bins located in Brock International



Source: Audit team, 2018.

Recommendations

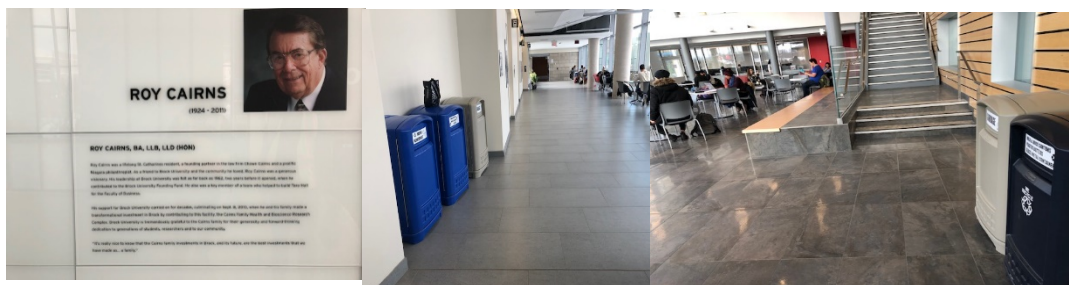
Waste Reduction Group Inc. can supply the Brock University with organic bins well labelled with visible signage to reduce the amount of waste generated on campus. With years of experience in the waste industry, Waste Reduction Group can developed a comprehensive waste management hierarchy that can be translated into a power point presentation form to assist Brock University in waste education to address the overall waste issue on campus. Brock University

should embark on regular waste audits, source separation programs, as well as a waste reduction plan should be updated annually to ensure that it is relevant at all time. The waste auditor committee or sustainability committee could appoint a student who is passionate about sustainability or studying in the Department of Environmental Studies/Sustainability to monitor and track the amount of waste generated. The student could act as a liaison between sustainability committee and waste management staff/operation.

The main findings identified in **Roy Cairns** as seen in the **Figure D**:

1. The team noticed bins are well placed in this building and well organized.
2. Constant waste education program on this building will improve diversion rate for Brock University.
3. A lot has been done in other buildings (bins, labels) and more needs to be done for the institution to meets its sustainability goals.

Figure D: Shows pictures of bins located in Cairns Roy building



Source: Audit team, 2018.

Recommendation

Attractive signage placed at the entrance concerning waste improvement will educate students and staff workers, hence, big changes concerning Roy Cairns waste management diversion rate.

This will also result in behavioral change. One of the key element in behavioral change is

individual taking action. This means both staff and students embracing the value and norms of Brock University concerning sustainability and incorporating that into their life style. The audit team recommends a publication of each buildings waste diversion performance be published in Brock University local papers to create awareness concerning waste management.

The main findings identified in **Rosalind Blauer** as seen in the **Figure E**:

1. There was one stand-alone bin found at the entrance of the building up to the lobby area where students sit to do work.
2. The waste generated is placed rightly according to recyclables, garbage and waste as shown below.
3. The kids are taught about waste management and the need to place things rightly.
4. A lot has been done in other buildings (bins, labels) and more needs to be done for the institution to meets its sustainability goals.

Figure E: Shows pictures of bins located in Rosalind Blauer building.



Source: Audit team, 2018.

Recommendation

They are doing extremely well by putting where each waste belong to. The “sorting out” of waste audit by the audit team indicated that they are really walking their talk in terms of putting

things rightly. One recommendation I would suggest is Waste Reduction can supply this very building a tri-bin with well labelled signage.

The main findings identified in **Harrison Hall** as seen in the **Figure F**:

1. There were two recyclable bins found at the entrance of the building. This sends a signal that everything is tossed into the blue bins
2. The audit team saw another bin with no label on as shown in **Figure F**
3. A lot has been done in this building (bins, labels) and more needs to be done for the institution to meet its sustainability goals.

Figure F: Shows pictures of bins located in Harrison Hall



Source: Audit team, 2018.

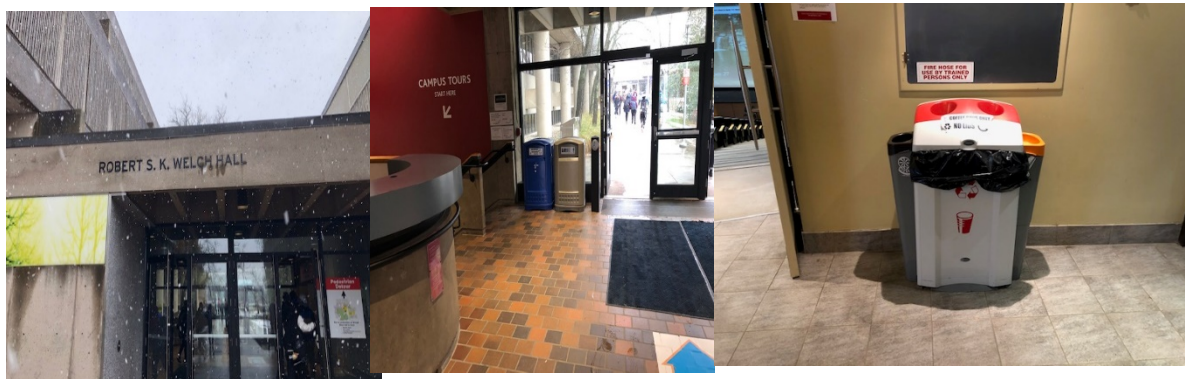
Recommendation

Blue bins are well labelled except the garbage bin. Waste Reduction can supply this building with tri-bins to enhance the diversion performance.

The main findings identified in **Robert Hall** as seen **Figure G**:

1. There are bins found at the entrance of the building up to the lobby area where students sit to do work and relax.
2. There is coffee cups bin to enable diversion rate for the hall.
3. Waste education is needed to improve the waste diversion for this hall.
4. A lot has been done in this building (bins, labels) and more needs to be done for the institution to meet its sustainability goals.

Figure G: Shows some of the pictures of bins located in Robert Hall



Source: Audit team, 2018.

Recommendation

WRG can supply this very buildings with bins and stickers. Also, attractive signage will educate students on the overall performance of Brock University waste management in terms of where the University is now (performance) and where the University is heading (target), preparations put in place to address the overall waste issues on campus.

The main findings identified in **Decew Residence** as shown in **Figure H**:

1. The building was secured so the audit team couldn't walk through to take pictures.
2. Recommendation is based on the samples collected from the building.

Figure H: Shows large amount of recyclables aluminum cans found in garbage stream located in Decew Residence.



Source: Audit team, 2018.

Recommendation

Waste education must be a priority for this building to enable the diversion rate. The audit team found an aluminum cans in the garbage bag. That could have been recycled easily if the building had the right signage and bins. Waste Reduction can supply the building with a tri-bin to increase waste performance.

Appendix B

Waste Audit Data

Waste Audit Report

Brock University
WRG Project P0927

Table B1: Fall Waste Audit Sample Summary

Building Name	Date	GARBAGE								RECYCLE							
		Office	Public	Washrooms	FS - Kitchen	FS - Dining	Labs	Residence	Tenants	Office	Public	Washrooms	FS - Kitchen	FS - Dining	Labs	Residence	Tenants
Walker West	Nov27/18	Yes	Yes	Yes	No	Yes	No	No	No	No	Yes	No	No	No	No	No	No
Kenmore - Harrison Hall	Nov27/18	Yes	Yes	Yes	No	Yes	No	No	No	No	No	No	No	No	No	No	No
Welch Hall	Nov27/18	Yes	Yes	Yes	No	Yes	No	No	No	No	No	No	No	No	No	No	No
CUB	Nov27/18	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No
BRIC	Nov27/18	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No
Cairns	Nov28/18	Yes	Yes	Yes	No	No	Yes	No	No	No	No	No	No	No	No	No	No
Plaza- Book Store	Nov28/18	Yes	Yes	Yes	No	Yes	No	No	No	No	No	No	No	No	No	No	No
Taro	Nov28/18	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Student Centre	Nov28/18	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No
All Outdoor Bins	Nov29/18	No	Yes	No	No	No	No	No	No	No	Yes	No	No	No	No	No	No
Marilyn I Walker School	Nov29/18	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No
Alphie's Trough	Nov29/18	No	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Tower	Nov30/18	Yes	Yes	Yes	No	Yes	No	No	No	No	No	No	No	Yes	No	No	No
International Building	Dec4/18	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No
573 Glenridge	Dec4/18	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No
East Academic	Dec4/18	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Daycare	Dec4/18	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No	No	No	No	No
QuarryView South	Dec4/18	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	Yes	No
QuarryView North	Dec4/18	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	Yes	No
Earp Residence	Dec5/18	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No	No
Decew North Residence	Dec5/18	No	Yes	Yes	No	Yes	No	Yes	No	No	Yes	No	No	Yes	No	No	No
Decew Café	Dec5/18	No	Yes	Yes	No	No	No	No	No	No	No	No	No	Yes	No	No	No
Lowenberger	Dec6/18	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	Yes	No
Village	Dec6/18	No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	Yes	No
Mac Chown- G block	Dec7/18	Yes	Yes	Yes	No	No	Yes	No	No	No	No	No	No	No	No	No	No
Hamilton Campus	Dec7/18	Yes	Yes	Yes	No	No	No	No	No	Yes	Yes	No	No	No	No	No	No

Waste Audit Report
 Brock University
 WRG Project P0927

Table B2: GARBAGE Waste Audit Sample Summary

Audit Location	Audited Building Name	Fall Audit Date	Fall Sample kg
1	Walker West	Nov27/18	94.55
2	Kenmore - Harrison Hall	Nov27/18	7.80
3	Welch Hall	Nov27/18	46.33
4	CUB	Nov27/18	11.29
5	BRIC	Nov27/18	7.88
6	Cairns	Nov28/18	59.95
7	Plaza-Book Store	Nov28/18	91.11
8	Taro	Nov28/18	20.28
9	Student Centre	Nov28/18	28.35
10	All Outdoor Bins	Nov29/18	38.32
11	Marilyn I Walker School	Nov29/18	33.60
12	Alphie's Trough	Nov29/18	6.42
13	Tower	Nov30/18	300.25
14	International Building	Dec4/18	28.15
15	573 Glenridge	Dec4/18	4.22
16	East Academic	Dec4/18	4.89
17	Daycare	Dec4/18	18.81
18	QuarryView South	Dec4/18	19.08
19	QuarryView North	Dec4/18	24.87
20	Earp Residence	Dec5/18	32.39
21	Decew North Residence	Dec5/18	150.54
22	Decew Café	Dec5/18	4.47
23	Lowenberger	Dec6/18	148.40
24	Village	Dec6/18	94.78
25	Mac Chown- G block	Dec7/18	146.57
26	Hamilton Campus	Dec7/18	15.83
Total Sample:			1439.13

Table B3: Overall 2018 FALL GARBAGE Composition Summary

Area of Collection:	Office & Admin		Public Areas		Washrooms		Food Services Kitchens		Food Services Dining		Labs		Residences		Food Services Tenant Space		Outdoor Bins		Total	
Total Weight of Sample (in kg):	105.93		777.78		105.88		15.54		39.09		33.88		322.71		0.00		38.32		1439.13	
Total Percent of Sample (in %):	7.4%		54.0%		7.4%		1.1%		2.7%		2.4%		22.4%		0.0%		2.7%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Total Mixed Containers:																				
PET (#1)	1.99	1.9%	29.31	3.8%	0.72	0.7%	0.28	1.8%	0.97	2.5%	0.41	1.2%	16.63	5.2%	0.00		1.40	3.7%	51.71	3.6%
HDPE (#2)	0.82	0.8%	6.08	0.8%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	2.65	0.8%	0.00		0.30	0.8%	9.85	0.7%
PP (#5)	3.14	3.0%	24.81	3.2%	0.36	0.3%	0.38	2.4%	1.92	4.9%	0.55	1.6%	10.68	3.3%	0.00		0.70	1.8%	42.54	3.0%
PS (#6)	1.24	1.2%	14.20	1.8%	0.18	0.2%	0.20	1.3%	1.30	3.3%	0.14	0.4%	5.50	1.7%	0.00		0.52	1.4%	23.28	1.6%
Glass	0.02	0.0%	5.00	0.6%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	7.48	2.3%	0.00		1.30	3.4%	13.80	1.0%
Aluminum	0.81	0.8%	11.64	1.5%	0.07	0.1%	0.00	0.0%	0.66	1.7%	0.04	0.1%	3.68	1.1%	0.00		0.45	1.2%	17.35	1.2%
Steel	0.00	0.0%	3.58	0.5%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.43	0.1%	0.00	0.0%	0.00		0.23	0.6%	4.24	0.3%
Gable Top	1.33	1.3%	11.66	1.5%	0.00	0.0%	0.36	2.3%	0.85	2.2%	0.00	0.0%	4.17	1.3%	0.00		0.60	1.6%	18.97	1.3%
Aseptic	1.41	1.3%	7.66	1.0%	0.15	0.1%	0.00	0.0%	0.55	1.4%	0.00	0.0%	1.71	0.5%	0.00		0.33	0.9%	11.81	0.8%
Total Mixed Papers:																				
Fine Paper	2.74	2.6%	21.11	2.7%	0.18	0.2%	0.00	0.0%	0.30	0.8%	0.61	1.8%	6.44	2.0%	0.00		0.30	0.8%	31.68	2.2%
Newsprint	1.07	1.0%	13.26	1.7%	0.00	0.0%	0.00	0.0%	0.37	0.9%	0.00	0.0%	6.59	2.0%	0.00		0.64	1.7%	21.93	1.5%
Boxboard	3.60	3.4%	43.23	5.6%	2.23	2.1%	0.15	1.0%	2.69	6.9%	0.84	2.5%	19.15	5.9%	0.00		1.84	4.8%	73.73	5.1%
Other Paper Fibres	1.68	1.6%	20.78	2.7%	0.13	0.1%	0.20	1.3%	1.12	2.9%	0.86	2.5%	6.00	1.9%	0.00		1.82	4.7%	32.59	2.3%
Corrugated Cardboard	1.33	1.3%	21.86	2.8%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.50	1.5%	10.85	3.4%	0.00		1.03	2.7%	35.57	2.5%
Paper Towels	13.74	13.0%	79.70	10.2%	83.78	79.1%	1.93	12.4%	3.92	10.0%	10.79	31.8%	41.67	12.9%	0.00		2.85	7.4%	238.38	16.6%
Coffee Cups	10.10	9.5%	71.13	9.1%	1.99	1.9%	0.07	0.5%	4.94	12.6%	0.67	2.0%	22.76	7.1%	0.00		2.35	6.1%	114.01	7.9%
Organic Food Waste	21.10	19.9%	117.92	15.2%	2.96	2.8%	7.04	45.3%	8.77	22.4%	0.00	0.0%	55.34	17.1%	0.00		5.20	13.6%	218.33	15.2%
LDPE Plastic Films	6.69	6.3%	49.82	6.4%	1.33	1.3%	3.48	22.4%	1.75	4.5%	3.19	9.4%	15.59	4.8%	0.00		1.48	3.9%	83.33	5.8%
Styrofoam	0.38	0.4%	3.57	0.5%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.73	0.2%	0.00		0.00	0.0%	4.68	0.3%
Other Plastics	0.00	0.0%	0.24	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00		0.00	0.0%	0.24	0.0%
Scrap Metal	0.00	0.0%	1.20	0.2%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00		0.00	0.0%	1.20	0.1%
Scrap Wood	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.52	0.2%	0.00		0.42	1.1%	0.94	0.1%
Ewaste	0.42	0.4%	1.80	0.2%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00		0.00	0.0%	2.22	0.2%
Bulbs	0.00	0.0%	0.51	0.1%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00		0.00	0.0%	0.51	0.0%
Batteries	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00		0.00	0.0%	0.00	0.0%
Printer Toners	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00		0.00	0.0%	0.00	0.0%
Non-recyclable	32.32	30.5%	217.71	28.0%	11.80	11.1%	1.45	9.3%	8.98	23.0%	15.28	45.1%	84.14	26.1%	0.00		14.56	38.0%	386.24	26.8%
QAQC Check	105.93	100.0%	777.78	100.0%	105.88	100.0%	15.54	100.0%	39.09	100.0%	33.88	100.0%	322.71	100.0%	0.00	0.0%	38.32	100.0%	1439.13	100.0%
Total Mixed Containers	10.76	10.2%	113.94	14.6%	1.48	1.4%	1.22	7.9%	6.25	16.0%	1.14	3.4%	52.93	16.4%	0.00		5.83	15.2%	193.55	13.4%
Total Mixed Papers	9.09	8.6%	98.38	12.6%	2.54	2.4%	0.35	2.3%	4.48	11.5%	2.31	6.8%	38.18	11.8%	0.00		4.60	12.0%	159.93	11.1%

Notes: Highlighted cells are those highlighted in Table 5 of Report (i.e. > 5%)

Table B4: Overall 2015 SUMMER GARBAGE Composition Summary

Area of Collection:	Office & Admin				Public Areas				Washrooms				Food Services Kitchens				Food Services Dining				Labs				Residences				Food Services Tenant Space				Outdoor Bins				Total																																											
Total Weight of Sample (in kg):	29.02								67.49								11.85																								51.40																159.75																							
Total Percent of Sample (in %):	18.2%								42.2%								7.4%								0.0%								0.0%								0.0%								0.0%								32.2%								0.0%								100.0%							
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%																																												
Total Mixed Containers	PET (#1)	4.26	14.7%	5.25	7.8%	0.13	1.1%																											9.64	6.0%																																													
	HDPE (#2)	0.88	3.0%	0.56	0.8%	0.00	0.0%																										1.44	0.9%																																														
	PP (#5)	2.17	7.5%	4.56	6.8%	0.13	1.1%																										6.86	4.3%																																														
	PS (#6)	3.50	12.1%	6.31	9.3%	0.16	1.4%																										9.97	6.2%																																														
	Glass	0.47	1.6%	3.02	4.5%	0.00	0.0%																										3.49	2.2%																																														
	Aluminum	2.54	8.7%	1.36	2.0%	0.09	0.8%																										3.99	2.5%																																														
	Steel	0.00	0.0%	0.76	1.1%	0.00	0.0%																										0.76	0.5%																																														
	Gable Top	0.52	1.8%	3.14	4.7%	0.01	0.1%																										3.67	2.3%																																														
	Aseptic	0.87	3.0%	1.11	1.7%	0.01	0.1%																										1.99	1.2%																																														
Total Mixed Papers	Fine Paper	0.88	3.0%	1.44	2.1%	0.13	1.1%																										2.52	1.6%																																														
	Newsprint	0.28	1.0%	0.22	0.3%	0.47	4.0%																										0.98	0.6%																																														
	Boxboard	0.10	0.4%	3.03	4.5%	0.02	0.1%																										3.41	2.1%																																														
	Other Paper Fibres	0.84	2.9%	3.91	5.8%	0.16	1.3%																										5.73	3.6%																																														
Corrugated Cardboard		0.13	0.4%	0.00	0.0%	0.00	0.0%																										0.13	0.1%																																														
Paper Towels		0.13	0.5%	1.57	2.3%	4.50	38.0%																										5.33	10.4%																																														
Coffee Cups		1.31	4.5%	4.57	6.8%	0.87	7.3%																										2.69	5.2%																																														
Organic Food Waste		3.16	10.9%	17.17	25.4%	3.07	25.9%																										24.20	47.1%																																														
LDPE Plastic Films		0.00	0.0%	0.00	0.0%	0.00	0.0%																										0.00	0.0%																																														
Styrofoam		0.32	1.1%	1.50	2.2%	0.00	0.0%																										0.19	0.4%																																														
Other Plastics		0.00	0.0%	0.00	0.0%	0.00	0.0%																										0.00	0.0%																																														
Scrap Metal		0.00	0.0%	0.18	0.3%	0.00	0.0%																										0.42	0.8%																																														
Scrap Wood		0.00	0.0%	0.00	0.0%	0.00	0.0%																										0.00	0.0%																																														
Ewaste		2.21	7.6%	0.15	0.2%	0.00	0.0%																										0.00	0.0%																																														
Bulbs		0.00	0.0%	0.00	0.0%	0.00	0.0%																										0.00	0.0%																																														
Batteries		0.00	0.0%	1.05	1.6%	0.00	0.0%																										1.05	0.7%																																														
Printer Toners		0.00	0.0%	0.00	0.0%	0.00	0.0%																										0.00	0.0%																																														
Non-recyclable		4.44	15.3%	6.61	9.8%	2.10	17.7%																									17.41	33.9%																																															
	QAQC Check	29.02	100.0%	67.49	100.0%	11.85	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	51.40	100.0%																																															
Total Mixed Containers		15.21	52.4%	26.08	38.6%	4.54	4.5%																										0.00	0.0%																																														
Total Mixed Papers		2.10	7.2%	8.60	12.8%	0.78	6.6%																										1.15	2.2%																																														

Table B5: Overall FALL/SUMMER COMBINED GARBAGE Composition Summary

Area of Collection:	Office & Admin				Public Areas				Washrooms				Food Services Kitchens				Food Services Dining				Labs				Residences				Food Services Tenant Space				Outdoor Bins				Total																																											
Total Weight of Sample (in kg):	134.95								845.27								117.73								15.54								39.09								33.88								322.71								51.40								38.32								1598.88							
Total Percent of Sample (in %):	8.4%								52.9%								7.4%								1.0%								2.4%								2.1%								20.2%								3.2%								2.4%								100.0%							
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%																																												
Total Mixed Containers	PET (#1)	6.25	4.6%	34.56	4.1%	0.85	0.7%	0.28	1.8%	0.97	2.5%	0.41	1.2%	16.63	5.2%	0.00	0.0%	1.40	3.7%	61.35	3.8%																																																											
	HDPE (#2)	1.70	1.3%	6.64	0.8%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	2.65	0.8%	0.00	0.0%	0.30	0.8%	11.29	0.7%																																																											
	PP (#5)	5.31	3.9%	29.37	3.5%	0.49	0.4%	0.38	2.4%	1.92	4.9%	0.55	1.6%	10.68	3.3%	0.00	0.0%	0.70	1.8%	49.40	3.1%																																																											
	PS (#6)	4.74	3.5%	20.51	2.4%	0.34	0.3%	0.20	1.3%	1.30	3.3%	0.14	0.4%	5.50	1.7%	0.00	0.0%	0.52	1.4%	33.25	2.1%																																																											
	Glass	0.49	0.4%	8.02	0.9%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	7.48	2.3%	0.00	0.0%	1.30	3.4%	17.29	1.1%																																																											
	Aluminum	3.35	2.5%	13.00	1.5%	0.16	0.1%	0.00	0.0%	0.66	1.7%	0.04	0.1%	3.68	1.1%	0.00	0.0%	0.45	1.2%	21.34	1.3%																																																											
	Steel	0.00	0.0%	4.34	0.5%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.43	0.1%	0.00	0.0%	0.23	0.6%	5.00	0.3%																																																											
	Gable Top	1.85	1.4%	14.80	1.8%	0.01	0.0%	0.36	2.3%	0.85	2.2%	0.00	0.0%	4.17	1.3%	0.00	0.0%	0.60	1.6%	22.64	1.4%																																																											
	Aseptic	2.28	1.7%	8.77	1.0%	0.16	0.1%	0.00	0.0%	0.55	1.4%	0.00	0.0%	1.71	0.5%	0.00	0.0%	0.33	0.9%	13.80	0.9%																																																											
Total Mixed Papers	Fine Paper	3.62	2.7%	22.55	2.7%	0.31	0.3%	0.00	0.0%	0.30	0.8%	0.61	1.8%	6.44	2.0%	0.06	0.1%	0.30	0.8%	34.20	2.1%																																																											
	Newsprint	1.35	1.0%	13.48	1.6%	0.47	0.4%	0.00	0.0%	0.37	0.9%	0.00	0.0%	6.59	2.0%	0.00	0.0%	0.64	1.7%	22.91	1.4%																																																											
	Boxboard	3.70	2.7%	46.26	5.5%	2.25	1.9%	0.15	1.0%	2.69	6.9%	0.84	2.5%	19.15	5.9%	0.26	0.5%	1.84	4.8%	77.14	4.8%																																																											
	Other Paper Fibres	2.52	1.9%	24.69	2.9%	0.29	0.2%	0.20	1.3%	1.12	2.9%	0.86	2.5%	6.00	1.9%	0.82	1.6%	1.82	4.7%	38.32	2.4%																																																											
Corrugated Cardboard		1.46	1.1%	21.86	2.6%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.50	1.5%	10.85	3.4%	0.00	0.0%	1.03	2.7%	35.70	2.2%																																																											
Paper Towels		13.87	10.3%	81.27	9.6%	88.28	75.0%	1.93	12.4%	3.92	10.0%	10.79	31.8%	41.67	12.9%	5.33	10.4%	2.85	7.4																																																													

Waste Audit Report

Brock University
WRG Project P027

Table B6: RECYCLE 2018 FALL Waste Audit Sample Summary

Audit Location	Audited Building Name	Audit Date	Total Sample kg
1	Walker West	Nov27/18	57.74
2	Kenmore - Harrison Hall	Nov27/18	0.00
3	Welch Hall	Nov27/18	2.23
4	CUB	Nov27/18	0.00
5	BRIC	Nov27/18	0.00
6	Cairns	Nov28/18	0.00
7	Plaza- Book Store	Nov28/18	0.00
8	Taro	Nov28/18	0.00
9	Student Centre	Nov28/18	0.00
10	All Outdoor Bins	Nov29/18	24.00
11	Marilyn I Walker School	Nov29/18	0.00
12	Alphie's Trough	Nov29/18	0.00
13	Tower	Nov30/18	33.13
14	International Building	Dec4/18	0.00
15	573 Glenridge	Dec4/18	0.00
16	East Academic	Dec4/18	0.00
17	Daycare	Dec4/18	0.00
18	QuarryView South	Dec4/18	3.61
19	QuarryView North	Dec4/18	4.11
20	Earp Residence	Dec5/18	0.00
21	Decew North Residence	Dec5/18	52.23
22	Decew Café	Dec5/18	4.16
23	Lowenberger	Dec6/18	15.75
24	Village	Dec6/18	16.19
25	Mac Chown- G block	Dec7/18	0.00
26	Hamilton Campus	Dec7/18	4.24
Total Sample:			217.39

Table B7: Overall 2018 FALL RECYCLE Composition Summary

Area of Collection:	Office & Admin		Public Areas		Washrooms		Food Services Kitchens		Food Services Dining		Labs		Residences		Food Services Tenant Space		Outdoor Bins		Total		
Total Weight of Sample (in kg):	1.70		105.86		0.00		0.00		46.17		0.00		39.66		0.00		24.00		217.39		
Total Percent of Sample (in %):	0.8%		48.7%		0.0%		0.0%		21.2%		0.0%		18.2%		0.0%		11.0%		100.0%		
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	
Total Mixed Containers	PET (#1)	0.00	0.0%	14.97	14.1%	0.00	0.00	5.91	12.8%	0.00	2.20	5.5%	0.00	4.12	17.2%	27.20	12.5%				
	HDPE (#2)	0.00	0.0%	3.40	3.2%	0.00	0.00	0.84	1.8%	0.00	0.00	0.0%	0.00	0.62	2.6%	4.86	2.2%				
	PP (#5)	0.00	0.0%	8.72	8.2%	0.00	0.00	3.78	8.2%	0.00	1.91	4.8%	0.00	2.15	9.0%	16.56	7.6%				
	PS (#6)	0.00	0.0%	4.78	4.5%	0.00	0.00	2.50	5.4%	0.00	0.82	2.1%	0.00	1.34	5.6%	9.44	4.3%				
	Glass	0.00	0.0%	6.32	6.0%	0.00	0.00	0.00	0.0%	0.00	0.94	2.4%	0.00	0.82	3.4%	8.08	3.7%				
	Aluminum	0.00	0.0%	7.33	6.9%	0.00	0.00	1.71	3.7%	0.00	2.32	5.8%	0.00	0.58	2.4%	11.94	5.5%				
	Steel	0.00	0.0%	3.18	3.0%	0.00	0.00	0.84	1.8%	0.00	0.00	0.0%	0.00	0.40	1.7%	4.42	2.0%				
	Gable Top	0.00	0.0%	8.12	7.7%	0.00	0.00	5.07	11.0%	0.00	4.40	11.1%	0.00	2.11	8.8%	19.70	9.1%				
Total Mixed Papers	Aseptic	0.00	0.0%	5.20	4.9%	0.00	0.00	2.45	5.3%	0.00	1.92	4.8%	0.00	0.25	1.0%	9.82	4.5%				
	Fine Paper	1.20	70.6%	8.69	8.2%	0.00	0.00	0.52	1.1%	0.00	2.20	5.5%	0.00	0.20	0.8%	12.81	5.9%				
	Newsprint	0.00	0.0%	5.11	4.8%	0.00	0.00	1.40	3.0%	0.00	1.20	3.0%	0.00	0.33	1.4%	8.04	3.7%				
	Boxboard	0.20	11.8%	7.93	7.5%	0.00	0.00	5.46	11.8%	0.00	5.22	13.2%	0.00	0.56	2.3%	19.37	8.9%				
Other Paper Fibres	0.00	0.0%	1.30	1.2%	0.00	0.00	0.90	1.9%	0.00	0.59	1.5%	0.00	0.00	0.0%	2.79	1.3%					
Corrugated Cardboard	0.00	0.0%	8.82	8.3%	0.00	0.00	4.46	9.7%	0.00	12.27	30.9%	0.00	0.40	1.7%	25.95	11.9%					
Paper Towels	0.00	0.0%	0.50	0.5%	0.00	0.00	0.65	1.4%	0.00	0.00	0.0%	0.00	0.00	0.0%	1.15	0.5%					
Coffee Cups	0.00	0.0%	6.08	5.7%	0.00	0.00	1.70	3.7%	0.00	1.14	2.9%	0.00	3.80	15.8%	12.72	5.9%					
Organic Food Waste	0.00	0.0%	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.0%	0.00	0.45	1.9%	0.45	0.2%					
LDPE Plastic Films	0.00	0.0%	5.23	4.9%	0.00	0.00	4.80	10.4%	0.00	0.85	2.1%	0.00	0.31	1.3%	11.19	5.1%					
Styrofoam	0.00	0.0%	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.00	0.0%	0.00	0.00	0.0%	0.00	0.0%					
Other Plastics	0.00	0.0%	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%					
Scrap Metal	0.00	0.0%	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%					
Scrap Wood	0.00	0.0%	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%					
Ewaste	0.00	0.0%	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%					
Bulbs	0.00	0.0%	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%					
Batteries	0.00	0.0%	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%					
Printer Toners	0.00	0.0%	0.00	0.0%	0.00	0.00	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%					
Non-recyclable	0.30	17.6%	0.18	0.2%	0.00	0.00	3.18	6.9%	0.00	1.68	4.2%	0.00	5.56	23.2%	10.90	5.0%					
QAQC Check	1.70	100.0%	105.86	100.0%	0.00	0.0%	0.00	0.0%	46.17	100.0%	0.00	0.0%	39.66	100.0%	0.00	0.0%	24.00	100.0%	217.39	100.0%	
Total Mixed Containers	0.00	0.0%	62.02	58.6%	0.00	0.00	23.10	50.0%	0.00	14.51	36.6%	0.00	12.39	51.6%	112.02	51.5%					
Total Mixed Papers	1.40	82.4%	23.03	21.8%	0.00	0.00	8.28	17.9%	0.00	9.21	23.2%	0.00	1.09	4.5%	43.01	19.8%					
Contamination Rate	0.30	17.6%	6.26	5.9%	0.00	0.00	4.88	10.6%	0.00	2.82	7.1%	0.00	9.81	40.9%	24.07	11.1%					

Waste Audit Report

Brock University
WRG Project P0927

Table B15: Office/Admin Garbage Summary

Material category	Tower	Lowenberger	DeCaw Residence	Mackenzie Chown	Student Center	Plaza & Book Store	Village	Walker West	Cairns	Welch Hall	Outdoor Bins	Marilyn Walker	Earp Residence	International Centre (573B)	Quarry N	Taro	Quarry S	Day Care	Hamilton Campus	CUB	BRIC	Kenmore Harrison Hall	Alphie Trough	East Academic	Decew Café	573A Glendale	Overall		
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	%	
Total Mixed Papers	3.51	0.00	0.00	0.78	0.12	1.09	0.00	0.78	1.05	0.04	0.00	0.09	0.00	0.41	0.00	1.63	0.00	0.19	0.29	0.19	0.10	0.02	0.00	0.40	0.00	0.07	10.76	10.2%	
Total Mixed Containers	2.06	0.00	0.00	0.57	0.31	0.65	0.00	1.14	1.46	0.04	0.00	0.10	0.00	0.37	0.00	0.74	0.00	0.15	0.18	0.16	0.19	0.12	0.00	0.63	0.00	0.22	9.09	8.6%	
Corrugated Cardboard	1.19	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	0.00	0.00	0.00	0.00	0.00	0.00	0.14	1.33	1.3%	
Paper Towels	3.35	0.00	0.00	2.94	0.35	0.77	0.00	0.88	2.04	0.10	0.00	0.00	0.00	0.48	0.00	0.78	0.00	0.38	0.11	0.34	0.35	0.15	0.00	0.48	0.00	0.24	13.74	13.0%	
Coffee Cups	3.10	0.00	0.00	1.28	0.18	0.48	0.00	0.83	1.45	0.02	0.00	0.33	0.00	0.33	0.00	1.03	0.00	0.06	0.10	0.15	0.09	0.13	0.00	0.29	0.00	0.25	10.10	9.5%	
Organic Food Waste	4.21	0.00	0.00	0.95	0.63	1.95	0.00	1.25	3.15	0.04	0.00	0.13	0.00	0.50	0.00	6.24	0.00	0.25	0.20	0.30	0.33	0.10	0.00	0.52	0.00	0.35	21.10	19.9%	
LDPE Plastic Films	1.94	0.00	0.00	0.44	0.16	0.83	0.00	0.25	0.62	0.04	0.00	0.40	0.00	0.19	0.00	0.80	0.00	0.00	0.15	0.20	0.05	0.14	0.00	0.32	0.00	0.16	6.69	6.3%	
Styrofoam	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.05	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	0.38	0.4%
Other Plastics	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	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	0.0%
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	0.00	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	0.0%
Ewaste	0.00	0.00	0.00	0.00	0.00	0.42	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	0.00	0.00	0.42	0.4%	
Bulbs	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Non-recyclable	11.09	0.00	0.00	1.82	1.03	2.88	0.00	1.15	7.04	0.31	0.00	0.17	0.00	0.90	0.00	2.14	0.00	0.41	0.48	0.68	0.82	0.25	0.00	0.74	0.00	0.41	32.32	30.5%	
Total	30.75	0.00	0.00	8.78	2.78	9.07	0.00	6.28	16.81	0.62	0.00	1.27	0.00	3.18	0.00	13.36	0.00	1.44	1.51	2.02	1.93	0.91	0.00	3.38	0.00	1.84	105.93	100.0%	
Percentage	29.0%	0.0%	0.0%	8.3%	2.6%	8.6%	0.0%	5.9%	15.9%	0.6%	0.0%	1.2%	0.0%	3.0%	0.0%	12.6%	0.0%	1.4%	1.4%	1.9%	1.8%	0.9%	0.0%	3.2%	0.0%	1.7%	1.00	TRUE	

Table B16: Public Areas Garbage Summary

Material category	Tower	Lowenberger	DeCaw Residence	Mackenzie Chown	Student Center	Plaza & Book Store	Village	Walker West	Cairns	Welch Hall	Outdoor Bins	Marilyn Walker	Earp Residence	International Centre (573B)	Quarry N	Taro	Quarry S	Day Care	Hamilton Campus	CUB	BRIC	Kenmore	Alphie Trough	East Academic	Decew Café	573A Glendale	Overall		
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	%
Total Mixed Papers	30.45	0.00	26.86	25.44	0.79	9.20	0.00	4.00	1.08	2.62	5.83	4.16	0.00	3.83	0.00	0.48	0.00	0.26	2.13	0.15	0.40	0.68	0.36	0.12	0.33	0.60	119.77	14.7%	
Total Mixed Containers	29.52	0.00	15.04	21.72	0.21	6.83	0.00	5.09	0.75	7.12	4.60	2.67	0.00	3.75	0.00	0.24	0.00	0.25	0.91	0.47	0.47	0.30	2.18	0.19	0.47	0.20	102.98	12.6%	
Corrugated Cardboard	5.12	0.00	4.82	6.05	0.00	0.70	0.00	0.76	0.00	0.00	1.03	4.11	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.20	0.00	22.89	2.8%	
Paper Towels	23.17	0.00	18.24	6.48	1.20	6.57	0.00	7.18	1.95	3.92	2.85	2.88	0.00	1.82	0.00	1.16	0.00	0.40	0.77	0.82	0.95	0.95	0.34	0.20	0.44	0.26	82.55	10.1%	
Coffee Cups	20.70	0.00	9.20	8.44	1.27	8.93	0.00	5.25	2.70	2.71	2.35	4.07	0.00	3.95	0.00	1.05	0.00	0.31	0.92	0.27	0.20	0.39	0.28	0.16	0.15	0.18	73.48	9.0%	
Organic Food Waste	37.21	0.00	18.20	14.23	1.82	11.25	0.00	11.53	2.26	5.83	5.20	3.16	0.00	2.87	0.00	1.99	0.00	0.47	0.85	0.48	0.81	1.88	1.89	0.20	0.59	0.40	123.12	15.1%	
LDPE Plastic Films	18.02	0.00	6.67	8.04	0.39	2.88	0.00	1.79	0.83	0.48	1.48	5.16	0.00	2.16	0.00	0.35	0.00	0.26	0.53	0.24	0.37	0.38	0.55	0.10	0.29	0.33	51.30	6.3%	
Styrofoam	0.92	0.00	0.30	0.30	0.00	0.34	0.00	0.22	0.00	0.00	0.00	1.49	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	3.57	0.4%	
Other Plastics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	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	0.0%	
Scrap Metal	1.20	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.1%	
Scrap Wood	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	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	0.42	0.1%	
Ewaste	0.95	0.00	0.85	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	0.00	0.00	0.00	0.00	0.00	1.80	0.2%	
Bulbs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	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	0.51	0.1%	
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Non-recyclable	62.76	0.00	43.88	26.07	2.45	16.06	0.00	27.92	8.15	9.55	14.56	3.48	0.00	3.94	0.00	1.65	0.00	0.69	2.45	4.20	1.67	0.44	0.82	0.54	0.58	0.41	232.27	28.5%	
Total	230.02	0.00	144.06	116.77	8.13	62.76	0.00	63.74	17.72	32.23	38.32	31.93	0.00	22.32	0.00	6.92	0.00	2.64	8.66	6.63	4.87	5.02	6.42	1.51	3.05	2.38	816.10	100.0%	
Percentage	28.2%	0.0%	17.7%	14.3%	1.0%	7.7%	0.0%	7.8%	2.2%	3.9%	4.7%	3.9%	0.0%	2.7%	0.0%	0.8%	0.0%	0.3%	1.1%	0.8%	0.6%	0.6%	0.8%	0.2%	0.4%				

Table B17: Washroom Area Garbage Summary

Material category	Tower	Lowenberger	DeCew Residence	Mackenzie Chown	Student Center	Plaza & Book Store	Village	Walker West	Cairns	Welch Hall	Outdoor Bins	Marilyn Walker	Earp Residence	International Centre (573B)	Quarry N	Taro	Quarry S	Day Care	Hamilton Campus	CUB	BRIC	Kenmore	Alphie Trough	East Academic	Decew Café	573A Glendale	Overall	
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	%
Total Mixed Papers	0.45	0.00	0.03	0.22	0.05	0.14	0.00	0.24	0.00	0.08	0.00	0.02	0.00	0.10	0.00	0.00	0.00	0.00	0.09	0.03	0.00	0.03	0.00	0.00	0.00	0.00	1.48	1.4%
Total Mixed Containers	0.42	0.00	0.20	0.47	0.00	0.08	0.00	0.56	0.00	0.03	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.20	0.20	0.00	0.30	0.00	0.00	0.00	0.00	0.00	2.54	2.4%
Corrugated Cardboard	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Paper Towels	25.52	0.00	1.02	9.39	3.12	8.93	0.00	14.19	0.70	6.12	0.00	0.00	0.00	1.90	0.00	0.00	0.00	3.35	4.48	2.35	0.62	0.84	0.00	0.00	1.25	0.00	83.78	79.1%
Coffee Cups	0.30	0.00	0.06	0.15	0.06	0.15	0.00	0.18	0.09	0.24	0.00	0.33	0.00	0.13	0.00	0.00	0.00	0.00	0.10	0.08	0.00	0.12	0.00	0.00	0.00	0.00	1.99	1.9%
Organic Food Waste	0.20	0.00	0.25	0.00	0.00	0.30	0.00	0.33	0.00	1.15	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.34	0.20	0.00	0.10	0.00	0.00	0.00	0.00	0.00	2.96	2.8%
LDPE Plastic Films	0.20	0.00	0.12	0.00	0.00	0.25	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.19	0.08	0.00	0.00	0.00	0.00	0.05	0.00	1.33	1.3%	
Styrofoam	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Other Plastics	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	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	0.0%
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	0.00	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	0.0%
Ewaste	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Bulbs	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Non-recyclable	1.67	0.00	0.24	1.49	0.25	0.44	0.00	0.85	0.05	0.89	0.00	0.05	0.00	0.29	0.00	0.00	0.00	4.53	0.51	0.18	0.16	0.08	0.00	0.00	0.12	0.00	11.80	11.1%
Total	28.76	0.00	1.92	11.72	3.48	10.29	0.00	16.73	0.84	8.51	0.00	0.40	0.00	2.65	0.00	0.00	0.00	8.61	5.66	2.64	1.08	1.17	0.00	0.00	1.42	0.00	105.88	100.0%
Percentage	27.2%	0.0%	1.8%	11.1%	3.3%	9.7%	0.0%	15.8%	0.8%	8.0%	0.0%	0.4%	0.0%	2.5%	0.0%	0.0%	0.0%	8.1%	5.3%	2.5%	1.0%	1.1%	0.0%	0.0%	1.3%	0.0%	1.00	TRUE

Table B18: Food Services - Kitchens Garbage Summary

Material category	Tower	Lowenberger	DeCew Residence	Mackenzie Chown	Student Center	Plaza & Book Store	Village	Walker West	Cairns	Welch Hall	Outdoor Bins	Marilyn Walker	Earp Residence	International Centre (573B)	Quarry N	Taro	Quarry S	Day Care	Hamilton Campus	CUB	BRIC	Kenmore	Alphie Trough	East Academic	Decew Café	573A Glendale	Overall	
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	%
Total Mixed Papers	0.00	0.00	0.00	0.00	1.22	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	0.00	0.00	0.00	1.22	7.9%
Total Mixed Containers	0.00	0.00	0.00	0.00	0.35	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	0.00	0.00	0.00	0.35	2.3%
Corrugated Cardboard	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Paper Towels	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.93	12.4%
Coffee Cups	0.00	0.00	0.00	0.00	0.07	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	0.00	0.00	0.00	0.07	0.5%
Organic Food Waste	0.00	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.04	45.3%
LDPE Plastic Films	0.00	0.00	0.00	0.00	3.48	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	0.00	0.00	0.00	3.48	22.4%
Styrofoam	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Other Plastics	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	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	0.0%
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	0.00	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	0.0%
Ewaste	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Bulbs	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Non-recyclable	0.00	0.00	0.00	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	9.3%
Total	0.00	0.00	0.00	0.00	9.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.54	100.0%
Percentage	0.0%	0.0%	0.0%	0.0%	60.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	39.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.00	TRUE

Table B19: Food Services - Dining Garbage Summary

Material category	Tower	Lowenberger	DeCew Residence	Mackenzie Chown	Student Center	Plaza & Book Store	Village	Walker West	Cairns	Welch Hall	Outdoor Bins	Marilyn Walker	Earp Residence	International Centre (573B)	Quarry N	Taro	Quarry S	Day Care	Hamilton Campus	CUB	BRIC	Kenmore	Alphie Trough	East Academic	Decew Café	573A Glendale	Overall	
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	%
Total Mixed Papers	2.85	0.00	0.00	0.00	0.73	1.25	0.00	1.13	0.00	0.22	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	6.25	16.0%
Total Mixed Containers	1.87	0.00	0.20	0.00	0.51	0.51	0.00	1.27	0.00	0.12	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	4.48	11.5%
Corrugated Cardboard	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Paper Towels	1.02	0.00	0.30	0.00	0.37	0.83	0.00	0.72	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	3.92	10.0%
Coffee Cups	1.99	0.00	0.00	0.00	0.25	1.35	0.00	0.89	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	4.94	12.6%
Organic Food Waste	0.60	0.00	0.28	0.00	0.84	2.82	0.00	1.75	0.00	2.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	8.77	22.4%
LDPE Plastic Films	0.19	0.00	0.02	0.00	0.25	0.38	0.00	0.45	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	1.75	4.5%
Styrofoam	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Other Plastics	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	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	0.0%
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	0.00	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	0.0%
Ewaste	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Bulbs	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Non-recyclable	2.20	0.00	0.57	0.00	1.59	1.85	0.00	1.59	0.00	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	8.98	23.0%
Total	10.72	0.00	1.37	0.00	4.54	8.99	0.00	7.80	0.00	4.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.00	0.00	39.09	100.0%
Percentage	27.4%	0.0%	3.5%	0.0%	11.6%	23.0%	0.0%	20.0%	0.0%	12.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8%	0.0%	0.0%	0.0%	0.0%	1.00	TRUE	

Table B20: Labs Garbage Summary

Material category	Tower	Lowenberger	DeCew Residence	Mackenzie Chown	Student Center	Plaza & Book Store	Village	Walker West	Cairns	Welch Hall	Outdoor Bins	Marilyn Walker	Earp Residence	International Centre (573B)	Quarry N	Taro	Quarry S	Day Care	Hamilton Campus	CUB	BRIC	Kenmore	Alphie Trough	East Academic	Decew Café	573A Glendale	Overall	
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	%
Total Mixed Papers	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.37	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	1.14	3.4%
Total Mixed Containers	0.00	0.00	0.00	1.55	0.00	0.00	0.00	0.00	0.76	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	2.31	6.8%
Corrugated Cardboard	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.25	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	0.50	1.5%
Paper Towels	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00	7.94	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	10.79	31.8%
Coffee Cups	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.34	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	0.67	2.0%
Organic Food Waste	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
LDPE Plastic Films	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	2.84	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	3.19	9.4%
Styrofoam	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Other Plastics	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	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	0.0%
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	0.00	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	0.0%
Ewaste	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Bulbs	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Non-recyclable	0.00	0.00	0.00	3.20	0.00	0.00	0.00	0.00	12.08	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	15.28	45.1%
Total	0.00	0.00	0.00	9.30	0.00	0.00	0.00	0.00	24.58	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	33.88	100.0%
Percentage	0.0%	0.0%	0.0%	27.4%	0.0%	0.0%	0.0%	0.0%	72.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.00	TRUE	

Waste Audit Report
 Brock University
 WRG Project P0927

Table B23: Annual Waste Management & Recycling Quantities

Waste Material	Recycled/ Reused, Disposed	Service Provider	Equipment	2010	2011	2012 Total			2013 Total			2014 Total			2015 Total			2016 Total			2017 Total			2018 Total						
				MT	MT	kg	MT	%	kg	MT	%	kg	MT	%	kg	MT	%	kg	MT	%	kg	MT	%	kg	MT	%	kg	MT	%	
Waste/Garbage	Disposed	Modern	Front-End Service			786.9	90.6%	483.1	71.7%			473.7	72.6%	473.7	74.0%	493,285	493.28	73.1%	406,020	406.02	75.4%	398,141	398.14	75.0%						
	Disposed	Modern	Compactor - Tower			124.3	9.4%	124.3	18.5%			126,295	19.3%	113,760	17.8%	148,470	148.47	22.0%	100,040	100.04	18.6%	100,040	100.04	18.9%						
	Disposed	Modern	Compactor - Central Rec.			66.2	9.8%	66.2	9.8%			52,780	8.1%	52,780	8.2%	33,112	33.11	4.9%	32,475	32.48	6.0%	32,475	32.48	6.1%						
Sub-Total				356.7	470.0	868.2		673.6				640.3		674.9		538.5		674.9		538.5		530.7		530.7						
Cardboard	Recycled	Cascades	In-House Baler	331.427	325.588	29.4	2.2%	45.0	3.6%			40.8	3.3%	80,000	80.0	5.7%	70.0	5.1%	65.0	4.7%	72.59	72.59	5.0%							
Cardboard	Recycled	Modern	Refer to Modern Summary, App. A														9.6	0.7%	0.3	0.0%	3.60	3.60	0.2%							
Cardboard (Residence Move-in Week)	Recycled	Modern	Refer to Modern Summary, App. A									30,182	2.4%	30,182	30.2	2.2%	9.0	0.7%	5.4	0.4%	0.32	0.32	0.0%							
Mixed Recycling	Recycled	Modern	Refer to Modern Summary, App. A														144.0	10.4%	169,920	169.92	12.4%	185.41	185.41	12.7%						
Mixed Recycling (Move In/Out)	Recycled	Modern	Refer to Modern Summary, App. A														15.1	1.1%	0.0	0.0%	0.00	0.00	0.0%							
Mixed Containers	Recycled	Niagara Recycling	Various, Note 2	210.6	189,701	201.1	15.3%	208.7	16.5%	207,118	207.1	16.6%	224,251.5	224.3	16.1%	164,580	164.6	11.9%	164,580	164.6	12.0%	164,580	164.58	11.3%						
Mixed Papers	Recycled	Niagara Recycling	Various, Note 2	302.405	335,895	603.4	45.8%	546.3	43.1%	515,884	515.9	41.2%	579,907.6	579.9	41.6%	414,000	414.0	29.9%	414,000	414.0	30.2%	414,000	414.00	28.4%						
Confidential Papers	Recycled	Iron Mountain/ShredIt	Varies			75,503	75.5	47,303	47.3	49,972	50.0	45,939	45.9	3.3%	44,587	44.6	3.2%	50,612	50.6	3.7%	50,612	50.63	3.5%							
Scrap Metals	Recycled	Sam Adelstein & Co	Lugger Box	45.553	33.847	23,855	23.9	12,482	12.5	13,418	13.4	1.1%	19,936	19.9	1.4%	17,791	17.8	1.3%	34,400	34.4	2.5%	60,150	60.15	4.1%						
Organics	Recycled	Davidson Env.	32 & 64 Gallon Totes, Note 3	445,032	351,019	314,031	314.0	23.9%	208,680	301.3	23.8%	280,703	280.7	22.4%	298,742	298.7	21.5%	322,518	322.5	23.3%	260,400	260.4	19.0%	275,820	275.82	18.9%				
Coffee Cups	Recycled	Davidson Env.	Bagged			860	0.9	0.1%	860	0.9	0.1%	860	0.9	0.1%	860	0.9	0.1%	860	0.9	0.1%	860	0.9	0.1%	860	0.86	0.1%				
Oil & Grease	Recycled	Rothsay	Totes			9.2	7.569	7.6	0.8%	15,558	15.6	1.2%	15,699	15.7	1.3%	4,149	4.1	0.3%	10,628	10.6	0.8%	11,436	11.4	0.8%	10,048	10.05	0.7%			
Bulbs & Ballasts	Recycled	Aevitas	Totes			4,142	2,751	2.8	0.2%	10,988	11.0	0.9%	1,689	1.7	0.1%	996	1.0	0.1%	1,275	1.3	0.1%	1,800	1.8	0.1%	1,760	1.76	0.1%			
Ewastes	Recycled	Greentec	Varies	8.167	8.167	8,167	8.2	0.6%	9,635	9.6	0.8%	18,157	18.2	1.5%	11,640	11.6	0.8%	19,156	19.2	1.4%	14,542	14.5	1.1%	15,562	15.56	1.1%				
Ewastes (Residence Move out week)	Recycled	Niagara Ewastes	Varies			1,273	1.3	0.1%	1,727	1.7	0.1%	Note 4	0.0	0.0%	0	0.0	0.0%	0.0	0.0%	0.0	0.0%	0.0	0.0	0.0%						
Batteries	Recycled	Raw Materials Company Inc	Varies			867	0.9	0.1%	550	0.5	0.0%	2,409	2.4	0.2%	1,582	1.6	0.1%	4,413	4.4	0.3%	2,183	2.2	0.2%	1,169	1.17	0.1%				
Yard Wastes	Recycled	Landscaper/In-house	40 yd roll-offs			16,545	18.5	1.4%	25,000	25.0	2.0%	25,000	25.0	2.0%	25,000	25.0	1.8%	25,000	25.0	1.8%	25,000	25.00	1.7%	25,000	25.00	1.7%				
Yard Wastes - Brush	Recycled	Modern	Refer to Modern Summary, App. A														22.8	1.6%	48,580	48.6	3.5%	75,600	75.60	5.2%						
Scrap Wood	Recycled								Unknown			1,000	1.0	0.1%			0.0	0.0%			0.0%	0.0	0.0	0.0%						
Text Books - Donated/Recycled	Recycled																686	0.7	0.0%	7,882	7.9	0.6%	7,882	7.88	0.5%					
Wood Pallets	Recycled			10.25	10.25	8,100	8.1	0.6%	8,100	8.1	0.6%	8,100	8.1	0.6%	8,100	8.1	0.6%	8,100	8.1	0.6%	8,100	8.10	0.6%	8,100	8.10	0.6%				
Printer Toners	Reused	Suppliers/Green Tec				1,173	1.2	0.1%	1,225	1.2	0.1%	Note 4	0.0	0.0%	1,225	1.2	0.1%	1,225	1.2	0.1%	1,225	1.23	0.1%	1,225	1.23	0.1%				
Ewastes	Reused	In-house program																5,272	5.3		3,582	3.58								
Used Furniture/Equipment	Reused	In-house program	8-10 5-ton trucks			20.0	1.5%		20.0	1.6%	22,819	22.8	1.8%	22,819	22.8	1.6%	22,919	22.9	1.7%	22,919	22.9	1.7%	22,919	22.92	1.6%					
Amber Bottles (Labs)	Reused	In-house program							Unknown			0.0	0.0%	unknown	0.0	0.0%	unknown	0.0%	unknown	0.0%	unknown	0.00	0.0%	unknown	0.00	0.0%				
LCBO/Beer Bottle Returns	Reused	LCBO/Beer Store Program							11,057	11.1	0.9%	16,034	16.0	1.3%	33,137	33.1	2.4%	46,413	46.4	3.4%	44,765	44.8	3.3%	44,765	44.77	3.1%				
Text Books - Donated/Recycled	Reused																	1,593	1.6	0.1%	4,582	4.6	0.3%	4,582	4.58	0.3%				
Clothing Donations	Reused	In-house program																240	0.2	0.0%	240	0.2	0.0%	240	0.24	0.0%				
Water Bottle Filling Stations	Reduced	In-house program							0.5	0.04%				1.5	0.12%			4.0	0.28%	6,649	6.6	0.5%	8,139	8.1	0.6%	9,303	9.30	0.6%		
Sub-Total				1353.4	1267.8	1316.6		1266.3				1251.4		1392.4		1383.1		1383.1		1372.1		1459.70		1459.70						
Total Generated				1710.1	1737.8	2184.8	100.0%	1939.9	100.0%			1904.2	100.0%	2032.7	100.0%	2058.0	100.0%		1910.7	100.0%		1990.35	100.0%							
Total Recycled				898.2	906.5	953.9	43.7%	898.2	46.3%			896.3	47.1%	998.6	48.1%	925.1	45.0%		942.3	49.3%		967.94	49.6%							
Total Reused				10.3	10.3	29.3	1.3%	40.4	2.1%			47.0	2.5%	65.3	3.2%	80.3	3.9%		86.9	4.5%		85.17	4.3%							
Total Reduced						0.5	0.03%		0.5	0.03%			1.5	0.08%		4.0	0.19%		6.6	0.32%		8.1	0.4%							
Total Composted				445.0	351.0	333.4	15.3%	327.2	16.9%			306.6	16.1%	324.6	16.0%	371.1	18.0%		334.8	17.5%		377.28	19.0%							
Total Disposed				356.7	470.0	868.2	39.7%	673.6	34.7%			652.8	34.3%	640.3	31.5%	674.9	32.8%		538.5	28.2%		530.66	26.7%							
Achieved Waste Diversion Rate				79.1%	73.0%	60.3%		65.3%				65.7%		68.5%		67.2%		71.8%		73.3%		73.3%		73.3%						
Additional Recyclable Materials in Wastes Disposed to Landfill (MT)				273.9	212.6	212.6		173.0				325.9		334.7		257.6		257.6		257.6		235.4		235.4						
Potential Waste Diversion Rate						72.8%		76.2%				74.8%		84.3%		83.1%		84.9%		84.9%		84.7%		84.7%						

Notes:
 Note 1: Refer to Table 18A1 & 18A2 of Report.
 Note 2: Refer to Table 18B of Report.
 Note 3: Refer to Table B27, App. B of Report.
 Note 4: Value included in total Ewaste number from Greentec.

Waste Audit Report

Brock University
WRG Project P0927

Table B24: Waste Management - Trash Disposal Summary

Location	Bin Size (Yd3)					Comments	
	8	6	4	3	2		
NORTH RESIDENCE						Per Modern Pick-Up Summary	
HARRISON HALL & POLICE BUILDING			55			Per Modern Pick-Up Summary	
BRIARWOOD HAMILTON CAMPUS	50					Per Modern Pick-Up Summary	
EARP RESIDENCE		110				Per Modern Pick-Up Summary	
EARP RESIDENCE - Move In/Out		23				Per Modern Pick-Up Summary	
QUARRY VIEW RESIDENCE (SOUTH)	98					Per Modern Pick-Up Summary	
QUARRY VIEW RESIDENCE (SOUTH) - Move In/Out		6				Per Modern Pick-Up Summary	
QUARRY VIEW RESIDENCE (NORTH)	91					Per Modern Pick-Up Summary	
RODMAN HALL				50		Per Modern Pick-Up Summary	
LOWENBERG RESIDENCE		213				Per Modern Pick-Up Summary	
LOWENBERG RESIDENCE - Move In/Out		67				Per Modern Pick-Up Summary	
VILLAGE RESIDENCE	231					Per Modern Pick-Up Summary	
VILLAGE RESIDENCE - Move In/Out		20				Per Modern Pick-Up Summary	
WALKER WEST - PHYS ED	155					Per Modern Pick-Up Summary	
CUB		101				Per Modern Pick-Up Summary	
FACULTY CLUB			34			Per Modern Pick-Up Summary	
DAY CARE			50			Per Modern Pick-Up Summary	
DECEW CAFE	81					Per Modern Pick-Up Summary	
DECEW RESIDENCE	204					Per Modern Pick-Up Summary	
WELCH HALL		82				Per Modern Pick-Up Summary	
TARO STUDENT CENTRE						Per Modern Pick-Up Summary	
573 GLENRIDGE		50				Per Modern Pick-Up Summary	
BRIC			39			Per Modern Pick-Up Summary	
PLAZA BOOKSTORE	201					Per Modern Pick-Up Summary	
MARILYN WALKER SCHOOL					151	Per Modern Pick-Up Summary	
INTERNATIONAL BUILDING		83				Per Modern Pick-Up Summary	
CAIRNS FAMILY HEALTH	53					Per Modern Pick-Up Summary	
Total # Pick Ups per year	1164	755	178	50	151	2298	
Sub-Total (Yd3/yr)	9312	4530	712	150	302	15006	
Garbage Density (kg/Yd3)						26.53	Per Density Audit (See Table B25)
Total Front End Service (kg/yr)						398140.7	
Total Front End Service (MT/yr)						398.14	
8 CY Compactor - Central Rec. (MT)						32.48	Per Modern Pick-Up Summary & BrockU density results
35 CY Compactor - Tower (MT)						100.04	Per Modern Pick-Up Summary - Actual Weights
Total Combined (MT)						530.66	

Waste Audit Report

Brock University

WRG Project P0927

Table B25: Waste Management & Recycling - Trash Disposal Summary

Location	Bin Size Yd3	Material Type	April 2014		Summer 2014	
			Volume Yd3	Weight kg	Volume Yd3	Weight kg
Kenmore/Harrison Hall	4	Trash	4		4	
Sean O'Sullivan Theatre	4	Trash	4		4	
Walker West	8	Trash	8		8	
Alphie's Trough	4	Trash	4			
CUB	6	Trash	6		6	
Plaza- Book Store	8	Trash	8		8	
Taro/Student Centre	8	Trash	8		8	
International Building	6	Trash	6		6	
573 Glenridge	6	Trash	6		6	
East Academic	6	Trash	6		6	
Captain John Decew	4	Trash	2		2	
Rodman Hall	3	Trash	3		3	
Hamilton Campus	8	Trash	8		8	
Cairns	8	Trash	8		8	
Welch Hall	6	Trash	6		6	
Daycare	4	Trash	4		4	
Earp Residence	6	Trash	6		6	
QuarryView South	8	Trash	8		8	
QuarryView North	8	Trash	8		8	
Lowenberger	6	Trash	6		3	
Lowenberger	6	Trash	6		3	
Lowenberger	6	Trash	6		3	
Village	8	Trash	8		4	
Village	8	Trash	8		4	
Decew North Residence	8	Trash	8		4	
Decew North Residence	8	Trash	8		8	
Decew Café	8	Trash	8		8	
Total	173		171	5100	146	3890
Density (kg/yd3)				29.82		26.64
Average Density (kg/yd3)			Note 1	28.23		
Average Density (kg/yd3)			Note 2	24.83		
Average Density (kg/yd3)			Note 3	26.53		

Note 1: Avg of April & Summer density studies. Includes utilization rate. Not all bins full during pick-up run.

Note 2: Avg Density from 2013 Waste Audit Report.

Note 3: Avg Density from 2013 and 2014 Density Studies.

Waste Audit Report

Brock University
WRG Project P0927

Table B26: Waste Management & Recycling - Recycle Summary TOTES

Location	Location	Mixed Paper Totes		Mixed Containers Totes		Comments
		# Totes	# Totes/wk	# Totes	# Totes/wk	
Mackenzie Chown G-block	Outside	17	32	8	20	
Schmon Tower	Outside	11	33	18	39	
Walker Complex	Outside	8	18	10	24	
CUB	Outside	3	2	3	4	
International & 573 Glenridge	Outside	3	9	3	12	
East Academic	Outside	3	3	3	8	
Student Centre	Outside	1	3	4	12	
Decew (Stairwell 18)	Outside	10	20	10	21	
Quarryview	Outside	6	6	9	12	
Decew Kitchen Dock	Outside	0	0	5	13	
EARP Building	Inside	5	12	5	6	
Lowenberger	Inside	6	18	6	12	
Sub-Total (Totes/wk) - School Year			156		183	
Sub-Total (Totes/wk) - Spring/Summer Period			90		114	Assumed same ratio as trash
Total Totes per yr - School Year			5460		6405	Assume 35 wks
Total Totes per yr - Spring/Summer			1440		1824	Assume 16 wks
Total (Totes/yr)			6900		8229	
Total (kg/yr)			414000.0		164580	
Total (MT/yr)			414.0		164.58	

Table B25: Waste Management & Recycling - Recycle Summary SINGLE STREAM

Location	Location	Single Stream			Comments
		kg	MT	Total (MT/wk)	
Village	Outside			280	Entire year
Hamilton	Outside			42	Entire year
		kg	MT		
Mixed Paper		142079.3	142.1		Entire year
Mixed Containers		51120.7	51.1		Entire year

Table B26: Recycling Annual Totals

Material	Service Type	kg/yr	MT/yr
Mixed Papers	Totes	414000.0	414.0
	Single Stream	142079.3	142.1
	Total	556079.3	556.1
Mixed Containers	Totes	164580.0	164.6
	Single Stream	51120.7	51.1
	Total	215700.7	215.7

Waste Audit Report

Brock University

WRG Project P0927

Table B27: Waste Management & Recycling - Organics Summary

Location	Organics Totes													# Totes/yr	Comments	
	Size	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Total 32 Gallon Totes	32														4261	(Based on Davidson Count)
Total 64 Gallon Totes	64														168	(Based on Davidson Count)
	Total	0	0	0	0	0	0	0	0	0	0	0	0	0	4429	
Avg Weight 32 Gallon Tote	kg														60	(Based on industry avg weight)
Avg Weight 64 Gallon Tote	kg														120	(Based on industry avg weight)
Total 32 Gall. Totes (kg/yr)															255660.0	
Total 64 Gall. Totes (kg/yr)															20160.0	
Total (kg/yr)															275820.0	
Total (MT/yr)															275.8	

Note: Counts provided via Davidson Env Spreadsheet.

Waste Audit Report
 Brock University
 WRG Project P0927

Client: Brock U
 Job Site: Tower
 Date: Nov. 30/18

GARBAGE

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Tenants		Total	
	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Colour Code																
Total Weight of Sample (in kg):	30.75		230.02		28.76		0.00		10.72						300.25	
Total Percent of Sample (in %):	10.2%		76.6%		9.6%		0.0%		3.6%		0.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Total Mixed Containers																
PET (#1)	0.50	1.6%	7.25	3.2%	0.15	0.5%			0.39	3.6%			8.29	2.8%		
HDPE (#2)	0.00	0.0%	2.18	0.9%	0.00	0.0%			0.00	0.0%			2.18	0.7%		
PP (#5)	1.12	3.6%	5.10	2.2%	0.15	0.5%			0.95	8.9%			7.32	2.4%		
PS (#6)	0.40	1.3%	3.02	1.3%	0.00	0.0%			0.60	5.6%			4.02	1.3%		
Glass	0.00	0.0%	0.00	0.0%	0.00	0.0%			0.00	0.0%			0.00	0.0%		
Aluminum	0.24	0.8%	3.90	1.7%	0.00	0.0%			0.36	3.4%			4.50	1.5%		
Steel	0.00	0.0%	2.13	0.9%	0.00	0.0%			0.00	0.0%			2.13	0.7%		
Gable Top	0.51	1.7%	3.83	1.7%	0.00	0.0%			0.35	3.3%			4.69	1.6%		
Aseptic	0.74	2.4%	3.04	1.3%	0.15	0.5%			0.20	1.9%			4.13	1.4%		
Total Mixed Papers																
Fine Paper	0.70	2.3%	4.25	1.8%	0.00	0.0%			0.00	0.0%			4.95	1.6%		
Newsprint	0.50	1.6%	6.20	2.7%	0.00	0.0%			0.00	0.0%			6.70	2.2%		
Boxboard	0.49	1.6%	16.23	7.1%	0.42	1.5%			1.42	13.2%			18.56	6.2%		
Other Paper Fibres	0.37	1.2%	2.84	1.2%	0.00	0.0%			0.45	4.2%			3.66	1.2%		
Corrugated Cardboard	1.19	3.9%	5.12	2.2%	0.00	0.0%			0.00	0.0%			6.31	2.1%		
Paper Towels	3.35	10.9%	23.17	10.1%	25.52	88.7%			1.02	9.5%			53.06	17.7%		
Coffee Cups	3.10	10.1%	20.70	9.0%	0.30	1.0%			1.99	18.6%			26.09	8.7%		
Organic Food Waste	4.21	13.7%	37.21	16.2%	0.20	0.7%			0.60	5.6%			42.22	14.1%		
LDPE Plastic Films	1.94	6.3%	18.02	7.8%	0.20	0.7%			0.19	1.8%			20.35	6.8%		
Styrofoam	0.30	1.0%	0.92	0.4%	0.00	0.0%			0.00	0.0%			1.22	0.4%		
Other Plastics	0.00	0.0%	0.00	0.0%	0.00	0.0%			0.00	0.0%			0.00	0.0%		
Scrap Metal	0.00	0.0%	1.20	0.5%	0.00	0.0%			0.00	0.0%			1.20	0.4%		
Scrap Wood	0.00	0.0%	0.00	0.0%	0.00	0.0%			0.00	0.0%			0.00	0.0%		
Ewaste	0.00	0.0%	0.95	0.4%	0.00	0.0%			0.00	0.0%			0.95	0.3%		
Bulbs	0.00	0.0%	0.00	0.0%	0.00	0.0%			0.00	0.0%			0.00	0.0%		
Batteries	0.00	0.0%	0.00	0.0%	0.00	0.0%			0.00	0.0%			0.00	0.0%		
Printer Toners	0.00	0.0%	0.00	0.0%	0.00	0.0%			0.00	0.0%			0.00	0.0%		
Non-recyclable	11.09	36.1%	62.76	27.3%	1.67	5.8%			2.20	20.5%			77.72	25.9%		
Total QAQC Check	30.75	100.0%	230.02	100.0%	28.76	100.0%	0.00	0.0%	10.72	100.0%	0.00	0.0%	0.00	0.0%	300.25	100.0%
Total Mixed Containers	3.51	11.4%	30.45	13.2%	0.45	1.6%	0.00		2.85	26.6%			37.26	12.4%		
Total Mixed Papers	2.06	6.7%	29.52	12.8%	0.42	1.5%	0.00		1.87	17.4%			33.87	11.3%		

RECYCLE

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Tenants		Total	
	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Colour Code																
Total Weight of Sample (in kg):															33.13	
Total Percent of Sample (in %):	0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		11.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Total Mixed Containers																
PET (#1)															2.95	8.9%
HDPE (#2)															0.84	2.5%
PP (#5)															3.12	9.4%
PS (#6)															2.40	7.2%
Glass															0.00	0.0%
Aluminum															1.13	3.4%
Steel															0.84	2.5%
Gable Top															2.77	8.4%
Aseptic															1.90	5.7%
Total Mixed Papers																
Fine Paper															0.52	1.6%
Newsprint															0.90	2.7%
Boxboard															3.24	9.8%
Other Paper Fibres															0.00	0.0%
Corrugated Cardboard															3.75	11.3%
Paper Towels															0.40	1.2%
Coffee Cups															1.50	4.5%
Organic Food Waste															0.00	0.0%
LDPE Plastic Films															3.94	11.9%
Styrofoam															0.00	0.0%
Other Plastics															0.00	0.0%
Scrap Metal															0.00	0.0%
Scrap Wood															0.00	0.0%
Ewaste															0.00	0.0%
Bulbs															0.00	0.0%
Batteries															0.00	0.0%
Printer Toners															0.00	0.0%
Non-recyclable															2.93	8.8%
Total QAQC Check	0.00	0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	33.13	100.0%
Total Mixed Containers															15.95	48.1%
Total Mixed Papers															4.66	14.1%

Waste Audit Report
 Brock University
 WRG Project P0927

Client: Brock U
 Job Site: Lowenberger **GARBAGE**
 Date: Dec6/18

Area of Collection: Colour Code	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Residences		Total					
	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%				
Total Weight of Sample (in kg):															148.40	148.40				
Total Percent of Sample (in %):	0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		100.0%		100.0%					
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%				
Total Mixed Containers	PET (#1)																8.12	5.5%	8.12	5.5%
	HDPE (#2)																1.95	1.3%	1.95	1.3%
	PP (#5)																6.19	4.2%	6.19	4.2%
	PS (#6)																2.80	1.9%	2.80	1.9%
	Glass																5.28	3.6%	5.28	3.6%
	Aluminum																1.78	1.2%	1.78	1.2%
	Steel																0.40	0.3%	0.40	0.3%
	Gable Top																1.75	1.2%	1.75	1.2%
	Aseptic																0.70	0.5%	0.70	0.5%
Total Mixed Papers	Fine Paper																4.24	2.9%	4.24	2.9%
	Newsprint																3.70	2.5%	3.70	2.5%
	Boxboard																10.62	7.2%	10.62	7.2%
	Other Paper Fibres																2.20	1.5%	2.20	1.5%
Corrugated Cardboard																	3.18	2.1%	3.18	2.1%
Paper Towels																	18.65	12.6%	18.65	12.6%
Coffee Cups																	10.26	6.9%	10.26	6.9%
Organic Food Waste																	24.28	16.4%	24.28	16.4%
LDPE Plastic Films																	8.42	5.7%	8.42	5.7%
Styrofoam																	0.00	0.0%	0.00	0.0%
Other Plastics																	0.00	0.0%	0.00	0.0%
Scrap Metal																	0.00	0.0%	0.00	0.0%
Scrap Wood																	0.52	0.4%	0.52	0.4%
Ewaste																	0.00	0.0%	0.00	0.0%
Bulbs																	0.00	0.0%	0.00	0.0%
Batteries																	0.00	0.0%	0.00	0.0%
Printer Toners																	0.00	0.0%	0.00	0.0%
Non-recyclable																	33.36	22.5%	33.36	22.5%
Total QAQC Check	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	148.40	100.0%	148.40	100.0%		
Total Mixed Containers																	28.97	19.5%	28.97	19.5%
Total Mixed Papers																	20.76	14.0%	20.76	14.0%

RECYCLE

Area of Collection: Colour Code	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Residences		Total					
	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%				
Total Weight of Sample (in kg):															15.75	15.75				
Total Percent of Sample (in %):	0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		10.6%		10.6%					
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%				
Total Mixed Containers	PET (#1)																0.53	3.4%	0.53	3.4%
	HDPE (#2)																0.00	0.0%	0.00	0.0%
	PP (#5)																0.48	3.0%	0.48	3.0%
	PS (#6)																0.20	1.3%	0.20	1.3%
	Glass																0.94	6.0%	0.94	6.0%
	Aluminum																1.30	8.3%	1.30	8.3%
	Steel																0.00	0.0%	0.00	0.0%
	Gable Top																2.65	16.8%	2.65	16.8%
	Aseptic																0.84	5.3%	0.84	5.3%
Total Mixed Papers	Fine Paper																0.30	1.9%	0.30	1.9%
	Newsprint																0.00	0.0%	0.00	0.0%
	Boxboard																1.34	8.5%	1.34	8.5%
	Other Paper Fibres																0.00	0.0%	0.00	0.0%
Corrugated Cardboard																	5.95	37.8%	5.95	37.8%
Paper Towels																	0.00	0.0%	0.00	0.0%
Coffee Cups																	0.49	3.1%	0.49	3.1%
Organic Food Waste																	0.00	0.0%	0.00	0.0%
LDPE Plastic Films																	0.35	2.2%	0.35	2.2%
Styrofoam																	0.00	0.0%	0.00	0.0%
Other Plastics																	0.00	0.0%	0.00	0.0%
Scrap Metal																	0.00	0.0%	0.00	0.0%
Scrap Wood																	0.00	0.0%	0.00	0.0%
Ewaste																	0.00	0.0%	0.00	0.0%
Bulbs																	0.00	0.0%	0.00	0.0%
Batteries																	0.00	0.0%	0.00	0.0%
Printer Toners																	0.00	0.0%	0.00	0.0%
Non-recyclable																	0.38	2.4%	0.38	2.4%
Total QAQC Check	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	15.75	100.0%	15.75	100.0%		
Total Mixed Containers																	6.94	44.1%	6.94	44.1%
Total Mixed Papers																	1.64	10.4%	1.64	10.4%

Waste Audit Report

Brock University
WRG Project P0927

Client: Brock U
Job Site: Decew North Residence **GARBAGE**
Date: Dec.5/18

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Residences		Total	
	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Colour Code																
Total Weight of Sample (in kg):			144.06		1.92		0.00		1.37				3.19		150.54	
Total Percent of Sample (in %):	0.0%		95.7%		1.3%		0.0%		0.9%		0.0%		2.1%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Total Mixed Containers			7.52	5.2%	0.00	0.0%			0.00	0.0%			0.07	2.2%	7.59	5.0%
PET (#1)			0.95	0.7%	0.00	0.0%			0.00	0.0%			0.00	0.0%	0.95	0.6%
HDPE (#2)			4.80	3.3%	0.00	0.0%			0.00	0.0%			0.06	1.9%	4.86	3.2%
PP (#5)			3.10	2.2%	0.03	1.6%			0.00	0.0%			0.17	5.3%	3.30	2.2%
PS (#6)			2.56	1.8%	0.00	0.0%			0.00	0.0%			0.00	0.0%	2.56	1.7%
Glass			3.50	2.4%	0.00	0.0%			0.00	0.0%			0.14	4.4%	3.64	2.4%
Aluminum			1.10	0.8%	0.00	0.0%			0.00	0.0%			0.03	0.9%	1.13	0.8%
Steel			2.30	1.6%	0.00	0.0%			0.00	0.0%			0.15	4.7%	2.45	1.6%
Gable Top			1.03	0.7%	0.00	0.0%			0.00	0.0%			0.05	1.6%	1.08	0.7%
Aseptic			1.73	1.2%	0.00	0.0%			0.00	0.0%			0.05	1.6%	1.78	1.2%
Total Mixed Papers			1.20	0.8%	0.00	0.0%			0.00	0.0%			0.00	0.0%	1.20	0.8%
Fine Paper			5.86	4.1%	0.20	10.4%			0.20	14.6%			0.06	1.9%	6.32	4.2%
Newsprint			6.25	4.3%	0.00	0.0%			0.00	0.0%			0.18	5.6%	6.43	4.3%
Boxboard			4.82	3.3%	0.00	0.0%			0.00	0.0%			0.00	0.0%	4.82	3.2%
Other Paper Fibres																
Corrugated Cardboard			18.24	12.7%	1.02	53.1%			0.30	21.9%			0.00	0.0%	19.56	13.0%
Paper Towels			9.20	6.4%	0.06	3.1%			0.00	0.0%			0.24	7.5%	9.50	6.3%
Coffee Cups			18.20	12.6%	0.25	13.0%			0.28	20.4%			0.97	30.4%	19.70	13.1%
Organic Food Waste			6.67	4.6%	0.12	6.3%			0.02	1.5%			0.25	7.8%	7.06	4.7%
LDPE Plastic Films			0.30	0.2%	0.00	0.0%			0.00	0.0%			0.00	0.0%	0.30	0.2%
Styrofoam			0.00	0.0%	0.00	0.0%			0.00	0.0%			0.00	0.0%	0.00	0.0%
Other Plastics			0.00	0.0%	0.00	0.0%			0.00	0.0%			0.00	0.0%	0.00	0.0%
Scrap Metal			0.00	0.0%	0.00	0.0%			0.00	0.0%			0.00	0.0%	0.00	0.0%
Scrap Wood			0.00	0.0%	0.00	0.0%			0.00	0.0%			0.00	0.0%	0.00	0.0%
Ewaste			0.00	0.0%	0.00	0.0%			0.00	0.0%			0.00	0.0%	0.00	0.0%
Bulbs			0.00	0.0%	0.00	0.0%			0.00	0.0%			0.00	0.0%	0.00	0.0%
Batteries			0.00	0.0%	0.00	0.0%			0.00	0.0%			0.00	0.0%	0.00	0.0%
Printer Toners			0.00	0.0%	0.00	0.0%			0.00	0.0%			0.00	0.0%	0.00	0.0%
Non-recyclable			43.88	30.5%	0.24	12.5%			0.57	41.6%			0.77	24.1%	45.46	30.2%
Total QAQC Check	0.00	0.0%	144.06	100.0%	1.92	100.0%	0.00	0.0%	1.37	100.0%	0.00	0.0%	3.19	100.0%	150.54	100.0%
Total Mixed Containers			26.86	18.6%	0.03	1.6%			0.00	0.0%			0.67	21.0%	27.56	18.3%
Total Mixed Papers			15.04	10.4%	0.20	10.4%			0.20	14.6%			0.29	9.1%	15.73	10.4%

RECYCLE

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Residences		Total	
	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Colour Code																
Total Weight of Sample (in kg):			45.58										6.65		52.23	
Total Percent of Sample (in %):	0.0%		87.3%		0.0%		0.0%		0.0%		0.0%		4.4%		91.7%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Total Mixed Containers			6.25	13.7%					1.36	20.5%					6.25	13.7%
PET (#1)			0.90	2.0%					0.00	0.0%					0.90	2.0%
HDPE (#2)			2.70	5.9%					0.33	5.0%					2.70	5.9%
PP (#5)			1.50	3.3%					0.00	0.0%					1.50	3.3%
PS (#6)			3.52	7.7%					0.00	0.0%					3.52	7.7%
Glass			4.28	9.4%					0.28	4.2%					4.28	9.4%
Aluminum			0.00	0.0%					0.00	0.0%					0.00	0.0%
Steel			3.32	7.3%					0.45	6.8%					3.32	7.3%
Gable Top			1.90	4.2%					0.20	3.0%					1.90	4.2%
Aseptic			2.85	6.3%					0.00	0.0%					2.85	6.3%
Total Mixed Papers			2.01	4.4%					0.50	7.5%					2.01	4.4%
Fine Paper			5.25	11.5%					1.62	24.4%					5.25	11.5%
Newsprint			1.30	2.9%					0.90	13.5%					1.30	2.9%
Boxboard			4.92	10.8%					0.36	5.4%					4.92	10.8%
Other Paper Fibres			0.50	1.1%					0.25	3.8%					0.50	1.1%
Corrugated Cardboard			2.48	5.4%					0.20	3.0%					2.48	5.4%
Paper Towels			0.00	0.0%					0.00	0.0%					0.00	0.0%
Coffee Cups			1.90	4.2%					0.20	3.0%					1.90	4.2%
Organic Food Waste			0.00	0.0%					0.00	0.0%					0.00	0.0%
LDPE Plastic Films			0.00	0.0%					0.00	0.0%					0.00	0.0%
Styrofoam			0.00	0.0%					0.00	0.0%					0.00	0.0%
Other Plastics			0.00	0.0%					0.00	0.0%					0.00	0.0%
Scrap Metal			0.00	0.0%					0.00	0.0%					0.00	0.0%
Scrap Wood			0.00	0.0%					0.00	0.0%					0.00	0.0%
Ewaste			0.00	0.0%					0.00	0.0%					0.00	0.0%
Bulbs			0.00	0.0%					0.00	0.0%					0.00	0.0%
Batteries			0.00	0.0%					0.00	0.0%					0.00	0.0%
Printer Toners			0.00	0.0%					0.00	0.0%					0.00	0.0%
Non-recyclable			0.00	0.0%					0.00	0.0%					0.00	0.0%
Total QAQC Check	0.00	0.0%	45.58	100.0%	0.00	0.0%	0.00	0.0%	6.65	100.0%	0.00	0.0%	0.00	0.0%	45.58	100.0%
Total Mixed Containers			24.37	53.5%					2.62	39.4%					24.37	53.5%
Total Mixed Papers			11.41	25.0%					3.02	45.4%					11.41	25.0%

Waste Audit Report
 Brock University
 WRG Project P0927

Client: Brock U
 Job Site: Village
 Date: Dec.6/18

GARBAGE

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Residences		Total	
	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Colour Code																
Total Weight of Sample (in kg):													94.78		94.78	
Total Percent of Sample (in %):	0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		100.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Total Mixed Containers													5.27	5.6%	5.27	5.6%
PET (#1)													0.70	0.7%	0.70	0.7%
HDPE (#2)													2.17	2.3%	2.17	2.3%
PP (#5)													1.88	2.0%	1.88	2.0%
PS (#6)													2.20	2.3%	2.20	2.3%
Glass													0.97	1.0%	0.97	1.0%
Aluminum													0.00	0.0%	0.00	0.0%
Steel													1.25	1.3%	1.25	1.3%
Gable Top													0.50	0.5%	0.50	0.5%
Aseptic													0.57	0.6%	0.57	0.6%
Total Mixed Papers													1.30	1.4%	1.30	1.4%
Fine Paper													4.15	4.4%	4.15	4.4%
Newsprint													2.58	2.7%	2.58	2.7%
Boxboard													5.70	6.0%	5.70	6.0%
Other Paper Fibres													10.42	11.0%	10.42	11.0%
Corrugated Cardboard													4.95	5.2%	4.95	5.2%
Paper Towels													17.25	18.2%	17.25	18.2%
Coffee Cups													5.29	5.6%	5.29	5.6%
Organic Food Waste													0.48	0.5%	0.48	0.5%
LDPE Plastic Films													0.00	0.0%	0.00	0.0%
Styrofoam													0.00	0.0%	0.00	0.0%
Other Plastics													0.00	0.0%	0.00	0.0%
Scrap Metal													0.00	0.0%	0.00	0.0%
Scrap Wood													0.00	0.0%	0.00	0.0%
Ewaste													0.00	0.0%	0.00	0.0%
Bulbs													0.00	0.0%	0.00	0.0%
Batteries													0.00	0.0%	0.00	0.0%
Printer Toners													0.00	0.0%	0.00	0.0%
Non-recyclable													27.15	28.6%	27.15	28.6%
Total QAQC Check	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	94.78	100.0%	94.78	100.0%
Total Mixed Containers													14.94	15.8%	14.94	15.8%
Total Mixed Papers													8.60	9.1%	8.60	9.1%

RECYCLE

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Residences		Total		
	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	
Colour Code																	
Total Weight of Sample (in kg):														16.19		16.19	
Total Percent of Sample (in %):	0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		17.1%		17.1%		
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	
Total Mixed Containers														1.02	6.3%	1.02	6.3%
PET (#1)														0.00	0.0%	0.00	0.0%
HDPE (#2)														0.85	5.3%	0.85	5.3%
PP (#5)														0.48	3.0%	0.48	3.0%
PS (#6)														0.00	0.0%	0.00	0.0%
Glass														0.62	3.8%	0.62	3.8%
Aluminum														0.00	0.0%	0.00	0.0%
Steel														1.30	8.0%	1.30	8.0%
Gable Top														0.63	3.9%	0.63	3.9%
Aseptic														1.80	11.1%	1.80	11.1%
Total Mixed Papers														1.20	7.4%	1.20	7.4%
Fine Paper														2.25	13.9%	2.25	13.9%
Newsprint														0.00	0.0%	0.00	0.0%
Boxboard														4.29	26.5%	4.29	26.5%
Other Paper Fibres														0.00	0.0%	0.00	0.0%
Corrugated Cardboard														0.00	0.0%	0.00	0.0%
Paper Towels														0.60	3.7%	0.60	3.7%
Coffee Cups														0.00	0.0%	0.00	0.0%
Organic Food Waste														0.40	2.5%	0.40	2.5%
LDPE Plastic Films														0.00	0.0%	0.00	0.0%
Styrofoam														0.00	0.0%	0.00	0.0%
Other Plastics														0.00	0.0%	0.00	0.0%
Scrap Metal														0.00	0.0%	0.00	0.0%
Scrap Wood														0.00	0.0%	0.00	0.0%
Ewaste														0.00	0.0%	0.00	0.0%
Bulbs														0.00	0.0%	0.00	0.0%
Batteries														0.00	0.0%	0.00	0.0%
Printer Toners														0.00	0.0%	0.00	0.0%
Non-recyclable														0.75	4.6%	0.75	4.6%
Total QAQC Check	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	16.19	100.0%	
Total Mixed Containers														4.90	30.3%	4.90	30.3%
Total Mixed Papers														5.25	32.4%	5.25	32.4%

Waste Audit Report

Brock University
WRG Project P0927

Client: Brock U
Job Site: All Outdoor Bins **GARBAGE**
Date: Nov.29/18

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Tenants		Total	
Colour Code																
Total Weight of Sample (in kg):			38.32												38.32	
Total Percent of Sample (in %):	0.0%		100.0%		0.0%		0.0%		0.0%		0.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Total Mixed Containers			1.40	3.7%									1.40	3.7%		
			0.30	0.8%									0.30	0.8%		
			0.70	1.8%									0.70	1.8%		
			0.52	1.4%									0.52	1.4%		
			1.30	3.4%									1.30	3.4%		
			0.45	1.2%									0.45	1.2%		
			0.23	0.6%									0.23	0.6%		
			0.60	1.6%									0.60	1.6%		
			0.33	0.9%									0.33	0.9%		
Total Mixed Papers			0.30	0.8%									0.30	0.8%		
			0.64	1.7%									0.64	1.7%		
			1.84	4.8%									1.84	4.8%		
			1.82	4.7%									1.82	4.7%		
Corrugated Cardboard			1.03	2.7%									1.03	2.7%		
Paper Towels			2.85	7.4%									2.85	7.4%		
Coffee Cups			2.35	6.1%									2.35	6.1%		
Organic Food Waste			5.20	13.6%									5.20	13.6%		
LDPE Plastic Films			1.48	3.9%									1.48	3.9%		
Styrofoam			0.00	0.0%									0.00	0.0%		
Other Plastics			0.00	0.0%									0.00	0.0%		
Scrap Metal			0.00	0.0%									0.00	0.0%		
Scrap Wood			0.42	1.1%									0.42	1.1%		
Ewaste			0.00	0.0%									0.00	0.0%		
Bulbs			0.00	0.0%									0.00	0.0%		
Batteries			0.00	0.0%									0.00	0.0%		
Printer Toners			0.00	0.0%									0.00	0.0%		
Non-recyclable			14.56	38.0%									14.56	38.0%		
Total QAQC Check	0.00	0.0%	38.32	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	38.32	100.0%
Total Mixed Containers			5.83	15.2%									5.83	15.2%		
Total Mixed Papers			4.60	12.0%									4.60	12.0%		

RECYCLE

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Residences		Total	
Colour Code																
Total Weight of Sample (in kg):			24.00												24.00	
Total Percent of Sample (in %):	0.0%		100.0%		0.0%		0.0%		0.0%		0.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Total Mixed Containers			4.12	17.2%									4.12	17.2%		
			0.62	2.6%									0.62	2.6%		
			2.15	9.0%									2.15	9.0%		
			1.34	5.6%									1.34	5.6%		
			0.82	3.4%									0.82	3.4%		
			0.58	2.4%									0.58	2.4%		
			0.40	1.7%									0.40	1.7%		
			2.11	8.8%									2.11	8.8%		
			0.25	1.0%									0.25	1.0%		
			0.20	0.8%									0.20	0.8%		
			0.33	1.4%									0.33	1.4%		
			0.56	2.3%									0.56	2.3%		
			0.00	0.0%									0.00	0.0%		
			0.40	1.7%									0.40	1.7%		
			0.00	0.0%									0.00	0.0%		
			3.80	15.8%									3.80	15.8%		
			0.45	1.9%									0.45	1.9%		
			0.31	1.3%									0.31	1.3%		
			0.00	0.0%									0.00	0.0%		
			0.00	0.0%									0.00	0.0%		
			0.00	0.0%									0.00	0.0%		
			0.00	0.0%									0.00	0.0%		
			0.00	0.0%									0.00	0.0%		
			0.00	0.0%									0.00	0.0%		
			0.00	0.0%									0.00	0.0%		
			5.56	23.2%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	5.56	23.2%
Total QAQC Check	0.00	0%	24.00	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	24.00	100.0%
Total Mixed Containers			12.39	51.6%									12.39	51.6%		
Total Mixed Papers			1.09	4.5%									1.09	4.5%		

Waste Audit Report

Brock University
WRG Project P0927

Client: Brock U
Job Site: Taro
Date: Nov.28/18

GARBAGE

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Residences		Total	
Colour Code																
Total Weight of Sample (in kg):	13.36		6.92												20.28	
Total Percent of Sample (in %):	65.9%		34.1%		0.0%		0.0%		0.0%		0.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Total Mixed Containers																
PET (#1)	0.25	1.9%	0.10	1.4%											0.35	1.7%
HDPE (#2)	0.82	6.1%	0.00	0.0%											0.82	4.0%
PP (#5)	0.33	2.5%	0.20	2.9%											0.53	2.6%
PS (#6)	0.15	1.1%	0.00	0.0%											0.15	0.7%
Glass	0.00	0.0%	0.00	0.0%											0.00	0.0%
Aluminum	0.00	0.0%	0.18	2.6%											0.18	0.9%
Steel	0.00	0.0%	0.00	0.0%											0.00	0.0%
Gable Top	0.00	0.0%	0.00	0.0%											0.00	0.0%
Aseptic	0.08	0.6%	0.00	0.0%											0.08	0.4%
Total Mixed Papers																
Fine Paper	0.13	1.0%	0.00	0.0%											0.13	0.6%
Newsprint	0.00	0.0%	0.00	0.0%											0.00	0.0%
Boxboard	0.35	2.6%	0.24	3.5%											0.59	2.9%
Other Paper Fibres	0.26	1.9%	0.00	0.0%											0.26	1.3%
Corrugated Cardboard	0.00	0.0%	0.00	0.0%											0.00	0.0%
Paper Towels	0.78	5.8%	1.16	16.8%											1.94	9.6%
Coffee Cups	1.03	7.7%	1.05	15.2%											2.08	10.3%
Organic Food Waste	6.24	46.7%	1.99	28.8%											8.23	40.6%
LDPE Plastic Films	0.80	6.0%	0.35	5.1%											1.15	5.7%
Styrofoam	0.00	0.0%	0.00	0.0%											0.00	0.0%
Other Plastics	0.00	0.0%	0.00	0.0%											0.00	0.0%
Scrap Metal	0.00	0.0%	0.00	0.0%											0.00	0.0%
Scrap Wood	0.00	0.0%	0.00	0.0%											0.00	0.0%
Ewaste	0.00	0.0%	0.00	0.0%											0.00	0.0%
Bulbs	0.00	0.0%	0.00	0.0%											0.00	0.0%
Batteries	0.00	0.0%	0.00	0.0%											0.00	0.0%
Printer Toners	0.00	0.0%	0.00	0.0%											0.00	0.0%
Non-recyclable	2.14	16.0%	1.65	23.8%											3.79	18.7%
Total QAQC Check	13.36	100.0%	6.92	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	20.28	100.0%
Total Mixed Containers	1.63	12.2%	0.48	6.9%											2.11	10.4%
Total Mixed Papers	0.74	5.5%	0.24	3.5%											0.98	4.8%

RECYCLE

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Residences		Total	
Colour Code																
Total Weight of Sample (in kg):															0.00	
Total Percent of Sample (in %):	0.0%		#DIV/0!		0.0%		0.0%		0.0%		0.0%		0.0%		#DIV/0!	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Total Mixed Containers																
PET (#1)															0.00	#DIV/0!
HDPE (#2)															0.00	#DIV/0!
PP (#5)															0.00	#DIV/0!
PS (#6)															0.00	#DIV/0!
Glass															0.00	#DIV/0!
Aluminum															0.00	#DIV/0!
Steel															0.00	#DIV/0!
Gable Top															0.00	#DIV/0!
Aseptic															0.00	#DIV/0!
Total Mixed Papers																
Fine Paper															0.00	#DIV/0!
Newsprint															0.00	#DIV/0!
Boxboard															0.00	#DIV/0!
Other Paper Fibres															0.00	#DIV/0!
Corrugated Cardboard															0.00	#DIV/0!
Paper Towels															0.00	#DIV/0!
Coffee Cups															0.00	#DIV/0!
Organic Food Waste															0.00	#DIV/0!
LDPE Plastic Films															0.00	#DIV/0!
Styrofoam															0.00	#DIV/0!
Other Plastics															0.00	#DIV/0!
Scrap Metal															0.00	#DIV/0!
Scrap Wood															0.00	#DIV/0!
Ewaste															0.00	#DIV/0!
Bulbs															0.00	#DIV/0!
Batteries															0.00	#DIV/0!
Printer Toners															0.00	#DIV/0!
Non-recyclable															0.00	#DIV/0!
Total QAQC Check	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	#DIV/0!
Total Mixed Containers															0.00	#DIV/0!
Total Mixed Papers															0.00	#DIV/0!

Waste Audit Report

Brock University
WRG Project P0927

Client: Brock U
Job Site: Quarry/View South **GARBAGE**
Date: Dec.4/18

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Residences		Total	
Colour Code																
Total Weight of Sample (in kg):													19.08		19.08	
Total Percent of Sample (in %):	0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		100.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Total Mixed Containers																
PET (#1)													1.04	5.5%	1.04	5.5%
HDPE (#2)													0.00	0.0%	0.00	0.0%
PP (#5)													0.38	2.0%	0.38	2.0%
PS (#6)													0.19	1.0%	0.19	1.0%
Glass													0.00	0.0%	0.00	0.0%
Aluminum													0.17	0.9%	0.17	0.9%
Steel													0.00	0.0%	0.00	0.0%
Gable Top													0.25	1.3%	0.25	1.3%
Aseptic													0.17	0.9%	0.17	0.9%
Total Mixed Papers																
Fine Paper													0.25	1.3%	0.25	1.3%
Newsprint													0.44	2.3%	0.44	2.3%
Boxboard													0.70	3.7%	0.70	3.7%
Other Paper Fibres													0.28	1.5%	0.28	1.5%
Corrugated Cardboard													0.00	0.0%	0.00	0.0%
Paper Towels													2.95	15.5%	2.95	15.5%
Coffee Cups													1.88	9.9%	1.88	9.9%
Organic Food Waste													2.80	14.7%	2.80	14.7%
LDPE Plastic Films													0.44	2.3%	0.44	2.3%
Styrofoam													0.00	0.0%	0.00	0.0%
Other Plastics													0.00	0.0%	0.00	0.0%
Scrap Metal													0.00	0.0%	0.00	0.0%
Scrap Wood													0.00	0.0%	0.00	0.0%
Ewaste													0.00	0.0%	0.00	0.0%
Bulbs													0.00	0.0%	0.00	0.0%
Batteries													0.00	0.0%	0.00	0.0%
Printer Toners													0.00	0.0%	0.00	0.0%
Non-recyclable													7.14	37.4%	7.14	37.4%
Total QAQC Check	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	19.08	100.0%	19.08	100.0%
Total Mixed Containers													2.20	11.5%	2.20	11.5%
Total Mixed Papers													1.67	8.8%	1.67	8.8%

RECYCLE

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Residences		Total			
Colour Code																		
Total Weight of Sample (in kg):													3.61		3.61			
Total Percent of Sample (in %):	0.0%		0.0%		0.0%		0.0%		0.0%		0.0%		18.9%		18.9%			
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%		
Total Mixed Containers																		
PET (#1)														0.29	8.0%	0.29	8.0%	
HDPE (#2)														0.00	0.0%	0.00	0.0%	
PP (#5)														0.29	8.0%	0.29	8.0%	
PS (#6)														0.14	3.9%	0.14	3.9%	
Glass														0.00	0.0%	0.00	0.0%	
Aluminum														0.20	5.5%	0.20	5.5%	
Steel														0.00	0.0%	0.00	0.0%	
Gable Top														0.35	9.7%	0.35	9.7%	
Aseptic														0.20	5.5%	0.20	5.5%	
Total Mixed Papers																		
Fine Paper														0.10	2.8%	0.10	2.8%	
Newsprint														0.00	0.0%	0.00	0.0%	
Boxboard														1.28	35.5%	1.28	35.5%	
Other Paper Fibres														0.31	8.6%	0.31	8.6%	
Corrugated Cardboard														0.00	0.0%	0.00	0.0%	
Paper Towels														0.00	0.0%	0.00	0.0%	
Coffee Cups														0.00	0.0%	0.00	0.0%	
Organic Food Waste														0.00	0.0%	0.00	0.0%	
LDPE Plastic Films														0.10	2.8%	0.10	2.8%	
Styrofoam														0.00	0.0%	0.00	0.0%	
Other Plastics														0.00	0.0%	0.00	0.0%	
Scrap Metal														0.00	0.0%	0.00	0.0%	
Scrap Wood														0.00	0.0%	0.00	0.0%	
Ewaste														0.00	0.0%	0.00	0.0%	
Bulbs														0.00	0.0%	0.00	0.0%	
Batteries														0.00	0.0%	0.00	0.0%	
Printer Toners														0.00	0.0%	0.00	0.0%	
Non-recyclable														0.35	9.7%	0.35	9.7%	
Total QAQC Check	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	3.61	100.0%	3.61	100.0%
Total Mixed Containers														1.47	40.7%	1.47	40.7%	
Total Mixed Papers														1.69	46.8%	1.69	46.8%	

Waste Audit Report

Brock University
WRG Project P0927

Client: Brock U
Job Site: Hamilton Campus **GARBAGE**
Date: Dec.7/18

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Residences		Total		
Colour Code																	
Total Weight of Sample (in kg):	1.51		8.66		5.66										15.83		
Total Percent of Sample (in %):	9.5%		54.7%		35.8%		0.0%		0.0%		0.0%		0.0%		100.0%		
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	
Total Mixed Containers	PET (#1)	0.02	1.3%	0.25	2.9%	0.05	0.9%								0.32	2.0%	
	HDPE (#2)	0.00	0.0%	1.00	11.5%	0.00	0.0%								1.00	6.3%	
	PP (#5)	0.10	6.6%	0.48	5.5%	0.03	0.5%								0.61	3.9%	
	PS (#6)	0.05	3.3%	0.22	2.5%	0.01	0.2%								0.28	1.8%	
	Glass	0.00	0.0%	0.00	0.0%	0.00	0.0%								0.00	0.0%	
	Aluminum	0.04	2.6%	0.06	0.7%	0.00	0.0%								0.10	0.6%	
	Steel	0.00	0.0%	0.00	0.0%	0.00	0.0%								0.00	0.0%	
	Gable Top	0.08	5.3%	0.12	1.4%	0.00	0.0%								0.20	1.3%	
	Aseptic	0.00	0.0%	0.00	0.0%	0.00	0.0%								0.00	0.0%	
Total Mixed Papers	Fine Paper	0.03	2.0%	0.19	2.2%	0.00	0.0%								0.22	1.4%	
	Newsprint	0.00	0.0%	0.00	0.0%	0.00	0.0%								0.00	0.0%	
	Boxboard	0.15	9.9%	0.52	6.0%	0.20	3.5%								0.87	5.5%	
	Other Paper Fibres	0.00	0.0%	0.20	2.3%	0.00	0.0%								0.20	1.3%	
Corrugated Cardboard		0.00	0.0%	0.10	1.2%	0.00	0.0%								0.10	0.6%	
Paper Towels		0.11	7.3%	0.77	8.9%	4.48	79.2%								5.36	33.9%	
Coffee Cups		0.10	6.6%	0.92	10.6%	0.10	1.8%								1.12	7.1%	
Organic Food Waste		0.20	13.2%	0.85	9.8%	0.20	3.5%								1.25	7.9%	
LDPE Plastic Films		0.15	9.9%	0.53	6.1%	0.08	1.4%								0.76	4.8%	
Styrofoam		0.00	0.0%	0.00	0.0%	0.00	0.0%								0.00	0.0%	
Other Plastics		0.00	0.0%	0.00	0.0%	0.00	0.0%								0.00	0.0%	
Scrap Metal		0.00	0.0%	0.00	0.0%	0.00	0.0%								0.00	0.0%	
Scrap Wood		0.00	0.0%	0.00	0.0%	0.00	0.0%								0.00	0.0%	
Ewaste		0.00	0.0%	0.00	0.0%	0.00	0.0%								0.00	0.0%	
Bulbs		0.00	0.0%	0.00	0.0%	0.00	0.0%								0.00	0.0%	
Batteries		0.00	0.0%	0.00	0.0%	0.00	0.0%								0.00	0.0%	
Printer Toners		0.00	0.0%	0.00	0.0%	0.00	0.0%								0.00	0.0%	
Non-recyclable		0.48	31.8%	2.45	28.3%	0.51	9.0%								3.44	21.7%	
Total QAQC Check		1.51	100.0%	8.66	100.0%	5.66	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	15.83	100.0%
Total Mixed Containers		0.29	19.2%	2.13	24.6%	0.09	1.6%								2.51	15.9%	
Total Mixed Papers		0.18	11.9%	0.91	10.5%	0.20	3.5%								1.29	8.1%	

RECYCLE

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Residences		Total		
Colour Code																	
Total Weight of Sample (in kg):	1.70		2.54												4.24		
Total Percent of Sample (in %):	10.7%		59.9%		0.0%		0.0%		0.0%		0.0%		0.0%		70.6%		
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	
Total Mixed Containers	PET (#1)	0.00	0.0%	0.20	7.9%										0.20	4.7%	
	HDPE (#2)	0.00	0.0%	0.00	0.0%										0.00	0.0%	
	PP (#5)	0.00	0.0%	0.22	8.7%										0.22	5.2%	
	PS (#6)	0.00	0.0%	0.15	5.9%										0.15	3.5%	
	Glass	0.00	0.0%	0.00	0.0%										0.00	0.0%	
	Aluminum	0.00	0.0%	0.10	3.9%										0.10	2.4%	
	Steel	0.00	0.0%	0.00	0.0%										0.00	0.0%	
	Gable Top	0.00	0.0%	0.00	0.0%										0.00	0.0%	
	Aseptic	0.00	0.0%	0.20	7.9%										0.20	4.7%	
Total Mixed Papers	Fine Paper	1.20	70.6%	0.34	13.4%										1.54	36.3%	
	Newsprint	0.00	0.0%	0.00	0.0%										0.00	0.0%	
	Boxboard	0.20	11.8%	0.50	19.7%										0.70	16.5%	
	Other Paper Fibres	0.00	0.0%	0.00	0.0%										0.00	0.0%	
Corrugated Cardboard		0.00	0.0%	0.40	15.7%										0.40	9.4%	
Paper Towels		0.00	0.0%	0.00	0.0%										0.00	0.0%	
Coffee Cups		0.00	0.0%	0.10	3.9%										0.10	2.4%	
Organic Food Waste		0.00	0.0%	0.00	0.0%										0.00	0.0%	
LDPE Plastic Films		0.00	0.0%	0.15	5.9%										0.15	3.5%	
Styrofoam		0.00	0.0%	0.00	0.0%										0.00	0.0%	
Other Plastics		0.00	0.0%	0.00	0.0%										0.00	0.0%	
Scrap Metal		0.00	0.0%	0.00	0.0%										0.00	0.0%	
Scrap Wood		0.00	0.0%	0.00	0.0%										0.00	0.0%	
Ewaste		0.00	0.0%	0.00	0.0%										0.00	0.0%	
Bulbs		0.00	0.0%	0.00	0.0%										0.00	0.0%	
Batteries		0.00	0.0%	0.00	0.0%										0.00	0.0%	
Printer Toners		0.00	0.0%	0.00	0.0%										0.00	0.0%	
Non-recyclable		0.30	17.6%	0.18	7.1%										0.48	11.3%	
Total QAQC Check		1.70	100.0%	2.54	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	4.24	100.0%
Total Mixed Containers		0.00	0.0%	0.87	34.3%										0.87	20.5%	
Total Mixed Papers		1.40	82.4%	0.84	33.1%										2.24	52.8%	

Waste Audit Report

Brock University
WRG Project P0927

Client: Brock U
Job Site: Decew Café **GARBAGE**
Date: Dec.5/18

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Residences		Total	
Colour Code																
Total Weight of Sample (in kg):			3.05		1.42										4.47	
Total Percent of Sample (in %):	0.0%		68.2%		31.8%		0.0%		0.0%		0.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
Total Mixed Containers			0.08	2.6%	0.00	0.0%							0.08	1.8%		
			0.00	0.0%	0.00	0.0%							0.00	0.0%		
			0.20	6.6%	0.00	0.0%							0.20	4.5%		
			0.05	1.6%	0.00	0.0%							0.05	1.1%		
			0.00	0.0%	0.00	0.0%							0.00	0.0%		
			0.00	0.0%	0.00	0.0%							0.00	0.0%		
			0.00	0.0%	0.00	0.0%							0.00	0.0%		
			0.00	0.0%	0.00	0.0%							0.00	0.0%		
			0.00	0.0%	0.00	0.0%							0.00	0.0%		
			0.05	1.6%	0.00	0.0%							0.05	1.1%		
			0.00	0.0%	0.00	0.0%							0.00	0.0%		
			0.32	10.5%	0.00	0.0%							0.32	7.2%		
			0.10	3.3%	0.00	0.0%							0.10	2.2%		
Corrugated Cardboard			0.20	6.6%	0.00	0.0%							0.20	4.5%		
Paper Towels			0.44	14.4%	1.25	88.0%							1.69	37.8%		
Coffee Cups			0.15	4.9%	0.00	0.0%							0.15	3.4%		
Organic Food Waste			0.59	19.3%	0.00	0.0%							0.59	13.2%		
LDPE Plastic Films			0.29	9.5%	0.05	3.5%							0.34	7.6%		
Styrofoam			0.00	0.0%	0.00	0.0%							0.00	0.0%		
Other Plastics			0.00	0.0%	0.00	0.0%							0.00	0.0%		
Scrap Metal			0.00	0.0%	0.00	0.0%							0.00	0.0%		
Scrap Wood			0.00	0.0%	0.00	0.0%							0.00	0.0%		
Ewaste			0.00	0.0%	0.00	0.0%							0.00	0.0%		
Bulbs			0.00	0.0%	0.00	0.0%							0.00	0.0%		
Batteries			0.00	0.0%	0.00	0.0%							0.00	0.0%		
Printer Toners			0.00	0.0%	0.00	0.0%							0.00	0.0%		
Non-recyclable			0.58	19.0%	0.12	8.5%							0.70	15.7%		
Total QAQC Check	0.00	0.0%	3.05	100.0%	1.42	100.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	4.47	100.0%
Total Mixed Containers			0.33	10.8%	0.00	0.0%							0.33	7.4%		
Total Mixed Papers			0.47	15.4%	0.00	0.0%							0.47	10.5%		

RECYCLE

Area of Collection:	Office & Admin		Hallways, Classrooms, Public Spaces		Washrooms		Food Services Kitchen		Food Services Dining		Labs		Residences		Total	
Colour Code																
Total Weight of Sample (in kg):									4.16						4.16	
Total Percent of Sample (in %):	0.0%		0.0%		0.0%		0.0%		93.1%		0.0%		0.0%		93.1%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
									1.50	36.1%			1.50	36.1%		
									0.00	0.0%			0.00	0.0%		
									0.28	6.7%			0.28	6.7%		
									0.10	2.4%			0.10	2.4%		
									0.00	0.0%			0.00	0.0%		
									0.30	7.2%			0.30	7.2%		
									0.00	0.0%			0.00	0.0%		
									0.15	3.6%			0.15	3.6%		
									0.22	5.3%			0.22	5.3%		
									0.00	0.0%			0.00	0.0%		
									0.00	0.0%			0.00	0.0%		
									0.35	8.4%			0.35	8.4%		
									0.00	0.0%			0.00	0.0%		
									0.35	8.4%			0.35	8.4%		
									0.00	0.0%			0.00	0.0%		
									0.00	0.0%			0.00	0.0%		
									0.00	0.0%			0.00	0.0%		
									0.00	0.0%			0.00	0.0%		
									0.00	0.0%			0.00	0.0%		
									0.00	0.0%			0.00	0.0%		
									0.00	0.0%			0.00	0.0%		
									0.25	6.0%			0.25	6.0%		
Total QAQC Check	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	4.16	100.0%	0.00	0.0%	0.00	0.0%
Total Mixed Containers											2.55	61.3%			2.55	61.3%
Total Mixed Papers											0.35	8.4%			0.35	8.4%

Appendix C

Waste Audit Summary

Ministry of the Environment Waste Form

Report of a Waste Audit

Industrial, Commercial and Institutional Establishments

As required by O. Reg. 102/94

- *This report must be prepared 6 months after becoming subject to O. Reg. 102/94 and a copy retained on file for at least five years after it is prepared, and be made available to the ministry upon request.*
- *For large construction and demolition projects, please refer to the forms included with "A Guide to Waste Audits and Waste Reduction Work Plans for Construction and Demolition Projects as Required Under Ontario Regulation 102/94" (revised July 2008)*

I. GENERAL INFORMATION

Name of Owner and/or Operator of Entity(ies) and Company Name: Brock University			
Name of Contact Person: Jay Ismailovic		Telephone #: 905-688-5550 x4803	Email address: jismailovic@brocku.ca
Street Address(es) of Entity(ies): 1812 Sir Isaac Brock Way			
Municipality: St. Catharines, Ontario, L2S 3A1			
Type of Entity (check one)			
Retail Shopping Establishments	<input type="checkbox"/>	Hotels and Motels	<input type="checkbox"/>
Retail Shopping Complexes	<input type="checkbox"/>	Hospitals	<input type="checkbox"/>
Office Buildings	<input type="checkbox"/>	Educational Institutions	<input checked="" type="checkbox"/>
Restaurants	<input type="checkbox"/>	Large Manufacturing Establishments	<input type="checkbox"/>

Note: O. Reg. 102/94 does not apply to multi-unit residential buildings.

II. DESCRIPTION OF ENTITY

<p>Provide a brief overview of the entity(ties):</p> <p>Brock University is an educational institution with approximately 18,788 students (full and part-time undergraduate and graduate) which satisfies Part X of Ontario Regulation 102/94 & 103/94. O.Reg. 102/94 requires operators of educational institutions with more than 350 full- or part-time students enrolled during the calendar year to conduct an annual waste audit and implement a waste reduction work plan. O.Reg. 103/94 requires that source separation programs be implemented and maintained for fine papers, newsprint, aluminum cans, steel cans, glass beverage containers and corrugated cardboard. Brock U undertook this audit in order to assist them in reducing wastes generated on campus and/or disposed to landfill, while being in compliance with the required Regulations.</p>

III. HOW WASTE IS PRODUCED AND DECISIONS AFFECTING THE PRODUCTION OF WASTE

For each category of waste that is produced at the entity(ies), explain how the waste will be produced and how management decisions and policies will affect the production of waste.

Categories of Waste	How Is the Waste Produced and What Management Decisions/Policies Affect Its Production?
PET (#1) plastic food and beverage bottles	<i>Brought onto campus or generated on campus by staff/students.</i>
Glass food and beverage bottles/jars	<i>Brought onto campus or generated on campus by staff/students.</i>
Aluminum food and beverage cans	<i>Brought onto campus or generated on campus by staff/students.</i>
Steel food and beverage cans	<i>Brought onto campus or generated on campus by staff/students.</i>
Gable Top Containers	<i>Brought onto campus or generated on campus by staff/students.</i>
Aseptic Containers	<i>Brought onto campus or generated on campus by staff/students.</i>
Polypropylene (#5 Plastics)	<i>Brought onto campus or generated on campus by staff/students.</i>
Boxboard shoe boxes, cereal boxes, etc.	<i>Brought onto campus or generated on campus by staff/students.</i>
Newsprint	<i>Brought onto campus or generated on campus by staff/students.</i>
Glossy magazines, catalogues, flyers	<i>Brought onto campus or generated on campus by staff/students.</i>
Fine paper	<i>Brought onto campus or generated on campus by staff/students.</i>
Cardboard	<i>Brought onto campus shipping/generated on campus by staff/students.</i>
Paper towels	<i>Generated by staff/students on campus</i>
Organics / Food Waste	<i>Brought onto campus/generated on campus by staff/students.</i>
Coffee cups	<i>Brought onto campus/generated on campus by staff/students.</i>
HDPE (#2) plastic jugs, crates, totes and drums	<i>Brought onto campus/generated on campus by staff/students.</i>
PVC (#3) plastics	<i>Brought onto campus/generated on campus by staff/students.</i>
LDPE (#4) plastic film	<i>Brought onto campus/generated on campus by staff/students.</i>
Polystyrene (#6)	<i>Brought onto campus/generated on campus by staff/students.</i>
Other Plastics (#7)	<i>Brought onto campus/generated on campus by staff/students.</i>
Scrap Metals	<i>Generated by staff/students on campus</i>
Scrap Woods	<i>Generated by staff/students on campus</i>
eWastes	<i>Generated by staff/students on campus</i>
Bulbs & Ballasts	<i>Generated by staff/students on campus</i>
Batteries	<i>Generated by staff/students on campus</i>
Oil & Grease	<i>Generated by staff/students on campus</i>
Yard Wastes	<i>Generated by staff/students on campus</i>
Used Furniture	<i>Generated by staff/students on campus</i>
Other / Non-Recyclable	<i>Generated by staff/students on campus</i>

Note: When completing this form, write “n/a” in the columns where the entity will not produce any waste for a category of waste.

IV. MANAGEMENT OF WASTE

For each category of waste listed below, indicate which waste items will be disposed or reused/recycled and how each item will be managed at the entity(ies).

Category	Waste to be Disposed	Reused or Recycled Waste
PET (#1) plastic food and beverage bottles	<i>Staff/Students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Glass food and beverage bottles/jars	<i>Staff/Students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Aluminum food and beverage cans	<i>Staff/Students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Steel food and beverage cans	<i>Staff/Students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Gable Top Containers	<i>Staff/Students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Aseptic Containers	<i>Staff/Students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Polypropylene (#5 Plastics)	<i>Staff/Students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Boxboard shoe boxes, cereal boxes, etc.	<i>Staff/Students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Newsprint	<i>Staff/Students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Glossy magazines, catalogues, flyers	<i>Staff/Students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Fine paper	<i>Staff/Students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Cardboard	<i>Staff/Students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Paper towels	<i>Staff/Students place in garbage</i>	<i>No recycling program implemented.</i>
Organics / Food Waste	<i>Staff/Students may place in garbage</i>	<i>Staff/Students may place in organics containers.</i>
Coffee cups	<i>Staff/Employees may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
HDPE (#2) plastic jugs, crates, totes and drums	<i>Staff/students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
PVC (#3) plastics	<i>Staff/students place in garbage</i>	<i>No recycling program implemented.</i>
LDPE (#4) plastic film	<i>Staff/students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Polystyrene (#6)	<i>Staff/students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Other Plastics (#7)	<i>Staff/students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Scrap Metals	<i>Staff/students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Scrap Woods	<i>Staff/students may place in garbage</i>	<i>Staff may reuse materials (pallets).</i>
eWastes	<i>Staff/Students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Bulbs & Ballasts	<i>Staff/Students may place in garbage</i>	<i>Staff may place in recycling containers.</i>
Batteries	<i>Staff/Students may place in garbage</i>	<i>Staff/Students may place in recycling containers.</i>
Oil & Grease	<i>Staff may place in garbage</i>	<i>Staff may place in recycling containers.</i>
Yard Wastes	<i>Staff may place in garbage</i>	<i>Staff may place in recycling containers.</i>
Used Furniture	<i>Staff may place in garbage</i>	<i>Staff may place in recycling containers.</i>
Other / Non-Recyclable	<i>Staff/students place in garbage</i>	<i>Not applicable.</i>

Note: When completing this form, write "n/a" in the columns where the entity will not produce any waste for a category of waste.

V. ESTIMATED QUANTITY OF WASTE PRODUCED ANNUALLY

Categories of Waste	Estimated Amount of Waste Produced in tonnes (t)											
	Generated			Reused			Recycled			Disposed		
	"A" Base Year	"B" * Current Year	"C" * Change (A-B)	"A" Base Year	"B" * Current Year	"C" * Change (A-B)	"A" Base Year	"B" * Current Year	"C" * Change (A-B)	"A" Base Year	"B" * Current Year	"C" * Change (A-B)
PET (#1) plastic food and beverage bottles	126.42	82.43	-43.98	0.00	9.30	9.30	103.06	52.77	-50.29	23.35	20.36	-2.99
HDPE Containers	16.56	13.18	-3.38	0.00	0.00	0.00	13.92	9.43	-4.49	2.64	3.75	1.11
Polypropylene (#5 Plastic)	1.97	48.52	46.56	0.00	0.00	0.00	0.34	32.13	31.79	1.63	16.40	14.77
Polystyrene (#6 Plastic)	0.00	29.35	29.35	0.00	0.00	0.00	0.00	18.31	18.31	0.00	11.04	11.04
Aluminum food and beverage cans	32.90	21.41	-11.48	0.00	0.00	0.00	26.95	15.68	-11.27	5.95	5.74	-0.21
Steel food and beverage cans	0.00	30.25	30.25	0.00	0.00	0.00	0.00	23.16	23.16	0.00	7.08	7.08
Glass food and beverage bottles/jars	39.35	55.00	15.65	0.00	44.77	44.77	29.36	8.57	-20.78	9.99	1.66	-8.33
Gable Top/Milk Containers	28.89	45.73	16.84	0.00	0.00	0.00	21.18	38.22	17.03	7.70	7.51	-0.19
Aseptic / Tetra Paks	9.72	23.63	13.91	0.00	0.00	0.00	6.33	19.05	12.72	3.39	4.58	1.19
Fine paper	247.21	224.80	-22.41	0.00	0.00	0.00	235.53	213.45	-22.08	11.68	11.35	-0.33
Newsprint	306.80	109.79	-197.00	0.00	0.00	0.00	297.79	102.19	-195.60	9.01	7.60	-1.40
Boxboard shoe boxes, cereal boxes, etc.	97.37	271.80	174.43	0.00	0.00	0.00	83.35	246.20	162.85	14.02	25.60	11.58
Glossy magazines, catalogues, flyers	66.05	60.64	-5.41	0.00	12.46	12.46	62.25	35.46	-26.79	3.80	12.72	8.92
Corrugated Cardboard	34.32	88.36	54.04	0.00	0.00	0.00	29.40	76.51	47.11	4.92	11.85	6.93
Paper Towels	12.43	82.95	70.52	0.00	0.00	0.00	0.00	0.00	0.00	12.43	82.95	70.52
Coffee Cups	58.01	41.83	-16.18	0.00	0.00	0.00	0.86	0.86	0.00	57.15	40.97	-16.18
Organics	553.41	364.08	-189.32	0.00	0.00	0.00	314.03	275.82	-38.21	239.37	88.26	-151.11
#2 Plastic (HDPE) - totes, bins, etc	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#3 Plastic (PVC)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
#4 Plastic Films (LDPE)	0.30	27.66	27.36	0.00	0.00	0.00	0.00	0.00	0.00	0.30	27.66	27.36
#6 Plastic Styrofoam	3.30	2.22	-1.08	0.00	0.00	0.00	0.00	0.00	0.00	3.30	2.22	-1.08
#7 Other Plastics	0.00	0.08	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08
Scrap Metal	24.04	60.75	36.71	0.00	0.00	0.00	23.85	60.15	36.30	0.19	0.60	0.41
Scrap Wood/Pallets	8.38	8.41	0.03	8.10	8.10	0.00	0.00	0.00	0.00	0.28	0.31	0.03
Electronic Wastes	10.10	20.67	10.56	0.00	3.58	3.58	9.44	15.56	6.12	0.66	1.52	0.86
Fluorescent Bulbs	2.75	1.93	-0.82	0.00	0.00	0.00	2.75	1.76	-0.99	0.00	0.17	0.17
Batteries	0.87	1.52	0.65	0.00	0.00	0.00	0.87	1.17	0.30	0.00	0.35	0.35
Printer Toners	1.17	1.23	0.05	1.17	1.23	0.05	0.00	0.00	0.00	0.00	0.00	0.00
Oil & Grease	7.57	10.05	2.48	0.00	0.00	0.00	7.57	10.05	2.48	0.00	0.00	0.00
Yard Wastes	18.55	100.60	82.05	0.00	0.00	0.00	18.55	100.60	82.05	0.00	0.00	0.00
Used Furniture	20.00	23.16	3.16	20.00	23.16	3.16	0.00	0.00	0.00	0.00	0.00	0.00
Other/Non-recyclable	456.40	138.33	-318.07	0.00	0.00	0.00	0.00	0.00	0.00	456.40	138.33	-318.07
Total	2184.83	1990.35	-194.48	29.27	102.60	73.33	1287.38	1357.10	69.72	868.18	530.66	-337.52
Percent Change (total C ÷ total A x 100)			-8.9%			250.5%			5.4%			-38.9%

Note: When completing this form, write "n/a" in the "Estimated Amount of Waste Produced" column where the entity will not produce any waste for a category of waste.

* Fill out these columns each year following the initial waste audit or baseline year to determine the progress that is being made by your waste reduction program.

VI. EXTENT TO WHICH MATERIALS OR PRODUCTS USED OR SOLD BY THE ENTITY CONSIST OF RECYCLED OR REUSED MATERIALS OR PRODUCTS

Please answer the following questions:

1. Do you have a management policy in place that promotes the purchasing and/or use of materials or products that consist of recycled and/or reused materials or products? If yes, please describe.

No formal “green” purchasing policy is in place at Brock U. However, the different purchasing departments at Brock U do consider environmental impacts of their purchases when ever options are available and feasible.

2. Do you have plans to increase the extent to which materials or products used or sold* consist of recycled or reused materials or products? If yes, please describe.

Not applicable.

* Information regarding materials or products “sold” that consist of recycled or reused materials or products is only required from owner(s) of retail shopping establishments and the owner(s) or operator(s) of large manufacturing establishments.

Please attach any additional page(s) as required to answer the above questions.

I hereby certify that the information provided in this Report of Waste Audit is complete and correct.		
Signature of authorized official:	Title:	Date:

Appendix D

Waste Reduction Work Plan

Ministry of the Environment Waste Form

Report of a Waste Reduction Work Plan

Industrial, Commercial and Institutional Establishments

As required by O. Reg. 102/94

This report must be prepared 6 months after becoming subject to O. Reg. 102/94 and a copy retained on file for at least five years after it is prepared, and be made available to the ministry upon request.

I. GENERAL INFORMATION

Name of Owner and/or Operator of Entity(ies) and Company Name: Brock University			
Name of Contact Person: Jay Ismailovic		Telephone #: 905-688-5550 x4803	Email address: jismailovic@brocku.ca
Street Address(es) of Entity(ies): 1812 Sir Isaac Brock Way			
Municipality: St. Catharines, Ontario, L2S 3A1			
Type of Entity (check one)			
Retail Shopping Establishments	<input type="checkbox"/>	Hotels and Motels	<input type="checkbox"/>
Retail Shopping Complexes	<input type="checkbox"/>	Hospitals	<input type="checkbox"/>
Office Buildings	<input type="checkbox"/>	Educational Institutions	<input checked="" type="checkbox"/>
Restaurants	<input type="checkbox"/>	Large Manufacturing Establishments	<input type="checkbox"/>

Note: O. Reg. 102/94 does not apply to multi-unit residential buildings.

II. DESCRIPTION OF THE ENTITY

<p>Provide a brief overview of the entity(ties):</p> <p>Brock University is an educational institution with approximately 18,704 students (full and part-time undergraduate and graduate) which satisfies Part X of Ontario Regulation 102/94 & 103/94. O.Reg. 102/94 requires operators of educational institutions with more than 350 full- or part-time students enrolled during the calendar year to conduct an annual waste audit and implement a waste reduction work plan. O.Reg. 103/94 requires that source separation programs be implemented and maintained for fine papers, newsprint, aluminum cans, steel cans, glass beverage containers and corrugated cardboard. Brock U undertook this audit in order to assist them in reducing wastes generated on campus and/or disposed to landfill, while being in compliance with the required Regulations.</p>

III. PLANS TO REDUCE, REUSE AND RECYCLE WASTE

<p>For each category of waste described in Part V of “Report of a Waste Audit” (on which this plan is based), explain what your plans are to Reduce, Reuse and Recycle the waste, including: 1) how the waste will be source separated at the establishment, and 2) the programs to reduce, reuse and recycle all source separated waste.</p>	
<p>Waste Category (as stated in Part V of your “Report of a Waste Audit”)</p>	<p>Source Separation and 3Rs Program</p>
<p>Cardboard</p>	<p><u>“Cardboard 3Rs Program”</u> <u>Reduce:</u> Suppliers will be encouraged to make use of reusable containers for the shipment of supplies to Brock University. <u>Reuse:</u> Cardboard boxes will be reused for shipments when appropriate. <u>Recycle:</u> Staff/Students will be reminded of the existing program. Cleaners will be trained on where to dispose of waste correctly.</p>
<p>Mixed Containers/Plastics (PET, HDPE, LDPE, PP, PS, Aluminum, Steel, Glass, Aseptic)</p>	<p><u>“Mixed Container/Plastics 3Rs Program”</u> <u>Reduce:</u> Staff/Students will be encouraged to bring reusable containers food/beverage containers for lunch and breaks. Brock University will encourage suppliers to reduce the amount of polystyrene used to transport supplies. Brock University will encourage suppliers to reduce the amount of plastic film and wrapping materials used to transport supplies. Brock U added eleven new water bottle refilling stations on campus, bringing the total to 20 water bottle refilling stations. These stations helped the university reduce the amount of plastic water bottles used on campus. <u>Reuse:</u> Staff/Students will be encouraged to reuse plastic crates and totes wherever possible. <u>Recycle:</u> Staff/Students will be provided with recycling bins in high waste generating areas and food service areas for mixed containers/plastics. Staff/Students will be encouraged to place mixed containers/plastics in appropriate recycling bins with appropriate signage affixed to the receptacle. Receptacles will be emptied on a regular basis before they become full into large roll away bins for collection by Niagara Recycling on a weekly basis.</p>
<p>Mixed Papers (Fine Paper, newsprint, boxboard, magazines, molded papers, kraft, catalogues, flyers, etc)</p>	<p><u>“Mixed Paper 3Rs Program”</u> <u>Reduce:</u> Staff/Students will be encouraged to print on both sides of each piece of paper as well as not print when it is unnecessary. Staff/Students will be encouraged to take reading materials home with them after they are finished with them. Staff and students will be sent, via email, news sources that are available online opposed to purchasing paper copies of news. <u>Reuse:</u> Discarded paper with print only on one side will be used for note pads/scrap paper. Staff/Students will be encouraged to leave newspapers they are finished reading in common areas for others to read. Textbooks collected for donations. <u>Recycle:</u> Staff/Students will be provided with instructions via email. Receptacles will be provided in each office, classroom and high waste generating areas. Staff/Students will be encouraged to place newsprint, fine paper, boxboard, magazines, molded papers, etc in appropriate recycling receptacles. Staff/Students will empty receptacles into centralized containers. Custodial Staff/Students will empty centralized containers into bulk container in designated area for collection by Niagara Recycling on a weekly basis.</p>
<p>Confidential Papers</p>	<p><u>“Confidential Paper 3Rs Program”</u> <u>Reduce:</u> None. <u>Reuse:</u> None. <u>Recycle:</u> Staff/Students will be reminded of the existing program. Receptacles will be provided in each designated office area as required. Staff/Students will be encouraged to place all confidential paper in the designated consoles. Contactor will empty consoles appropriately for shredding and recycling as required.</p>
<p>Paper Towels</p>	<p><u>“Hand Dryer 3Rs Program”</u> <u>Reduce:</u> Replace paper towels in washrooms with hand dryers. Reusable towels will be encouraged for the classrooms and offices when it does not pose a health risk. <u>Reuse:</u> None. <u>Recycle:</u> Staff/students will be encouraged to place paper towels in the organics collection bins.</p>
<p>Scrap Metals</p>	<p><u>“Scrap Metals 3Rs Program”</u> <u>Reduce:</u> Brock University will investigate through metal optimization study to insure steel is</p>

	<p>used with as little scrap generated as possible.</p> <p><u>Reuse:</u> None.</p> <p><u>Recycle:</u> Staff will be reminded of the existing program. Scrap conveyor system will be maintained and Service Provider will collect scrap metals for recycling.</p>
Organics	<p><u>“Organics 3Rs Program”</u></p> <p><u>Reduce:</u> Students will be encouraged to bring uneaten food items home after lunch breaks or uneaten. Non-perishable food items can be donated to a local food drive.</p> <p><u>Reuse:</u> Staff/Students provided with reusable china in some food service areas.</p> <p><u>Recycle:</u> Staff/Students will be continually reminded of the existing program. Kitchen staff & cleaners trained on where to dispose of waste correctly. Additional bins added to the university food service areas to capture organic materials. Signs improved relating to organics program to assist staff/students in sorting organic stream correctly. Selling of disposable food containers discouraged on campus, and if sold, containers should be compostable. Updated organics handouts for staff/student education/training program. Training of food service staff regarding improvements to organics program. Pulping unit installed at main cafeteria.</p>
Coffee Cups	<p><u>“Coffee Cups 3Rs Program”</u></p> <p><u>Reduce:</u> Staff/Students will be encouraged to use reusable coffee mugs and water bottles.</p> <p><u>Reuse:</u> None.</p> <p><u>Recycle:</u> Staff/Students will be reminded of the existing program. Staff/students will be encouraged to place Coffee/Drink Cups in a separate bin if Brock University can find a feasible program to recycle/compost the coffee and drink cups.</p>
Oil & Grease	<p><u>“Oil & Grease 3Rs Program”</u></p> <p><u>Reduce:</u> None.</p> <p><u>Reuse:</u> None.</p> <p><u>Recycle:</u> Staff/Students will be reminded of the existing program.</p>
3 B’s (Bulbs, Ballasts, Batteries)	<p><u>“3 B’s 3Rs Program”</u></p> <p><u>Reduce:</u> None.</p> <p><u>Reuse:</u> None.</p> <p><u>Recycle:</u> Staff/Students will be reminded of the existing program.</p>
Electronic Wastes	<p><u>“eWaste 3Rs Program”</u></p> <p><u>Reduce:</u> None.</p> <p><u>Reuse:</u> Staff/students will be encouraged to reuse/donate electronic wastes if possible. .</p> <p><u>Recycle:</u> Staff/Students will be reminded of the existing program. Program to be expanded campus wide. IT Department to continue collecting for proper recycling of waste materials. Collection program during residence move-out week to be continued.</p>
Yard Wastes	<p><u>“Yard Wastes 3Rs Program”</u></p> <p><u>Reduce:</u> None.</p> <p><u>Reuse:</u> None.</p> <p><u>Recycle:</u> Staff will be reminded of the existing program. Grass clippings to be left after mowing. Trimmings to be mulched and/or recycled/composted off-site via contractor. Saw dust from wood shop dust collector to be used in mulch.</p>
Wood Pallets/Scrap Woods	<p><u>“Wood Pallets 3Rs Program”</u></p> <p><u>Reduce:</u> Staff to monitor use of Pallet to eliminate/reduce broken pallets.</p> <p><u>Reuse:</u> Staff will be reminded of the existing program. Staff/Students will be encouraged to use scrap wood before new wood is purchased for use at the University.</p> <p><u>Recycle:</u> Staff will be reminded of sawdust recycling program relating to wood shop dust collector. Broken Pallets to be recovered and reused when possible.</p>
Printer Toners	<p><u>“Printer Toners 3Rs Program”</u></p> <p><u>Reduce:</u> None.</p> <p><u>Reuse:</u> Staff/Students will be reminded of the existing program. IT Department to continue collecting for proper handling of waste materials. Students will be encouraged to return printer cartridges to suppliers/retailers who offer return programs (such as Staples).</p> <p><u>Recycle:</u> None.</p>
Clothing/Textiles	<p><u>“Glove & Rag 3Rs Program”</u></p> <p><u>Reduce:</u> Staff/Students will be encouraged to use gloves for multiple tasks before placing in the reuse receptacles.</p> <p><u>Reuse:</u> Staff/Students will be encouraged to re-use gloves and cleaning cloths for multiple tasks before disposing.</p> <p><u>Recycle:</u> None.</p>
Used Furniture	<p><u>“Used Furniture 3Rs Program”</u></p>

	<p><u>Reduce:</u> None.</p> <p><u>Reuse:</u> Staff/Students will be reminded of the existing program. Staff/Students will be encouraged to reuse used furniture before new furniture is purchased for use at the University</p> <p><u>Recycle:</u> None.</p>
--	--

IV. RESPONSIBILITY FOR IMPLEMENTING THE WASTE REDUCTION WORK PLAN

<p>Identify who is responsible for implementing the Waste Reduction Work Plan at your entity(ies). If more than one person is responsible for implementation, identify each person who is responsible and indicate the part of the Waste Reduction Work Plan that each person is responsible for implementing.</p>		
Name of Person	Responsibility	Telephone #
Jay Ismailovic	All recycling programs*	905-688-5550 x4803
	(or will direct question/comment to appropriate person)	

.../2

V. TIMETABLE FOR IMPLEMENTING WASTE REDUCTION WORK PLAN

<p>Provide a timetable indicating when each Source Separation and 3Rs program of the Waste Reduction Work Plan will be implemented.</p>	
Source Separation and 3Rs Program	Schedule for Completion
Cardboard	<i>3Rs Program currently in place. Continual improvement to signage and additional promotional campaigns to be considered. Review operational improvements (Replace baler with compactor)</i>
Mixed Containers/Plastics	<i>3Rs Program currently in place. Continual improvement to signage and additional promotional campaigns to be considered. Single stream program implemented at Village Residences.</i>
Mixed Papers	<i>3Rs Program currently in place. Continual improvement to signage and additional promotional campaigns to be considered. Single stream program implemented at Village Residences.</i>
Confidential Papers	<i>3Rs Program currently in place. Continual improvement to signage and additional promotional campaigns to be considered.</i>
Scrap Metals	<i>3Rs Program currently in place. Continual improvement to signage and additional promotional campaigns to be considered.</i>
Organics	<i>3Rs Program currently in place. Continual improvement to signage and additional promotional campaigns to be considered. Additional organics bins to be purchased and installed in high traffic areas, as well as kitchenettes in office areas. Instructions to staff and students regarding expanded 3Rs program to occur in advance of program implementation.</i>
Coffee Cups	<i>3Rs Program currently in place. Additional recycle bins dedicated to coffee cups to be purchased and placed in high traffic areas, office areas, and outdoor bins. Continual improvement of existing program regarding signage and additional promotional campaigns to be considered to increase capture rate of material. Instructions to staff and students regarding expanded 3Rs program to occur in advance of program implementation.</i>
Oil & Grease	<i>3Rs Program currently in place. Continual improvement to signage and additional promotional campaigns to be considered.</i>
3 B's (Bulbs, Ballasts, Batteries)	<i>3Rs Program currently in place. Continual improvement to signage and additional promotional campaigns to be considered.</i>
eWaste	<i>3Rs Program currently in place. Continual improvement to signage and additional promotional campaigns to be considered.</i>
Yard Wastes	<i>3Rs Program currently in place. Continual improvement to signage and additional promotional campaigns to be considered.</i>

Scrap Wood/ Wood Pallets	<i>3Rs Program currently in place. Continual improvement to signage and additional promotional campaigns to be considered.</i>
Printer Toners	<i>3Rs Program currently in place. Continual improvement to signage and additional promotional campaigns to be considered.</i>
Used Furniture	<i>3Rs Program currently in place. Continual improvement to signage and additional promotional campaigns to be considered.</i>
Hand Dryer Program	<i>Hand Dryer Program is being considered, which would primarily focus on replacing paper towels in washrooms with hand dryers.</i>
Glove and Rag Reuse Program	<i>Glove and Rag Reuse Program is being considered.</i>
Lab Glass Recycling Program	<i>Investigate the feasibility of implementing a recycle program for lab glass in all lab areas on campus. If feasible, appropriate recycle bins to be purchased and installed in lab areas. Instructions to staff and students regarding new 3Rs program to occur in advance of program implementation.</i>
Garbage Density Study	<i>Continue to investigate the actual density of garbage disposed to landfill. Confirm the density of garbage disposed in front-end bins, as well as confirm weights of Central Shipping 8 yd³ compactor.</i>
Mixed Container & Mixed Paper Tote Study	<i>Conduct a study to verify average mixed container and mixed paper tote weights as well to conduct an inventory of bins on-campus. It is recommended that the total number of totes picked-up per week be verified.</i>
Organic Tote Study	<i>Conduct a study to verify organic tote weights as well to conduct an inventory of all organic totes on-campus. It is recommended that the total number of totes picked-up per week be verified.</i>
Cardboard Bale Study	<i>Conduct a study to verify effectiveness of cardboard system. Investigate feasibility of existing baling system, compared to switching to compactor system.</i>

VI. COMMUNICATION TO STAFF, CUSTOMERS, GUESTS AND VISITORS

Explain how the Waste Reduction Work Plan will be communicated to employees, customers, tenants, guests/visitors and students:
Explain how the Waste Reduction Work Plan will be communicated to employees, customers, tenants, guests/visitors and students. Sustainability committee will review and develop a workplan to be posted on University's computer bulletin board for staff and students. Additional promotional campaigns will also be considered to target specific audiences for specific programs. Continue to improve educational materials (hand-outs, flyers) and signage across campus as required.

VII. ESTIMATED WASTE PRODUCED BY MATERIAL TYPE AND THE PROJECTED AMOUNT

Material Categories (as stated in Part III)	Estimated Annual Waste Produced * (tonnes)	Name of Proposed 3Rs Program (as stated in Part III)	Projections to Reduce, Reuse or Recycle Waste (tonnes)			Estimated Annual Amount to be Diverted ** (%)
			Reduce	Reuse	Recycle	
PET (#1) plastic food and beverage bottles	82.43	Mixed Container 3Rs Program	9.30		52.52	75%
HDPE Containers	13.18	Mixed Container 3Rs Program		0.00	8.56	65%
Polypropylene (#5 Plastic)	48.52	Mixed Container 3Rs Program		0.00	31.54	65%
Polystyrene (#6 Plastic)	29.35	Mixed Container 3Rs Program		0.00	19.08	65%
Aluminum food and beverage cans	21.41	Mixed Container 3Rs Program		0.00	16.06	75%
Steel food and beverage cans	30.25	Mixed Container 3Rs Program		0.00	19.66	65%
Glass food and beverage bottles/jars	55.00	Mixed Container 3Rs Program		44.77	4.74	90%
Gable Top/Milk Containers	45.73	Mixed Container 3Rs Program		0.00	40.24	88%
Aseptic / Tetra Paks	23.63	Mixed Container 3Rs Program		0.00	15.36	65%
Fine paper	224.80	Mixed Papers & Confidential Paper 3Rs Programs		0.00	197.82	88%
Newsprint	109.79	Mixed Paper 3Rs Program		0.00	96.62	88%
Boxboard shoe boxes, cereal boxes, etc.	271.80	Mixed Paper 3Rs Program		0.00	212.00	78%
Glossy magazines, flyers, textbooks	60.64	Mixed Paper 3Rs Program		12.46	36.05	80%
Corrugated Cardboard	88.36	Cardboard 3Rs Program		0.00	75.10	85%
Paper Towels	82.95	No 3Rs Program		0.00	0.00	NA
Coffee Cups	41.83	Coffee Cup 3Rs Program		0.00	10.46	25%
Organics	364.08	Organics 3Rs Program		0.00	218.45	60%
#2 Plastic (HDPE) - totes, bins, etc	0.00	Mixed Container 3Rs Program		0.00	0.00	65%
#3 Plastic (PVC)	0.00	Mixed Container 3Rs Program		0.00	0.00	65%
#4 Plastic Films (LDPE)	27.66	No 3Rs Program		0.00	0.00	NA
#6 Plastic Styrofoam	2.22	No 3Rs Program		0.00	0.00	NA
#7 Other Plastics	0.08	Mixed Container 3Rs Program		0.00	0.04	50%
Scrap Metal	60.75	Scrap Metals 3Rs Program		0.00	52.24	86%
Scrap Wood/Pallets	8.41	Wood Pallets 3Rs Program		8.10	0.00	70%
Electronic Wastes	20.67	eWaste 3Rs Program		3.58	19.63	95%
Fluorescent Bulbs	1.93	Bulbs 3Rs Program		0.00	1.93	100%
Batteries	1.52	Batteries 3Rs Program		0.00	1.41	93%

Printer Toners	1.23	Printer Toners 3Rs Program		1.23	0.00	100%
Oil & Grease	10.05	Oil & Grease 3Rs Program		0.00	10.05	100%
Yard Wastes	100.60	Yard Wastes 3Rs Program		0.00	100.60	100%
Used Furniture	23.16	Used Furniture 3Rs Program		23.16	0.00	100%
Other/Non-recyclable	138.33	No 3Rs Program		0.00	0.00	NA

* *Estimated Waste Produced = Waste Diverted (3Rs) + Waste Disposed*

** *Estimated Waste Diversion Rate = Amount of Waste Diverted (3Rs) ÷ Estimated Waste Produced x 100%*

I hereby certify that the information provided in this Waste Reduction Work Plan is complete and correct.		
Signature of authorized official:	Title:	Date: