

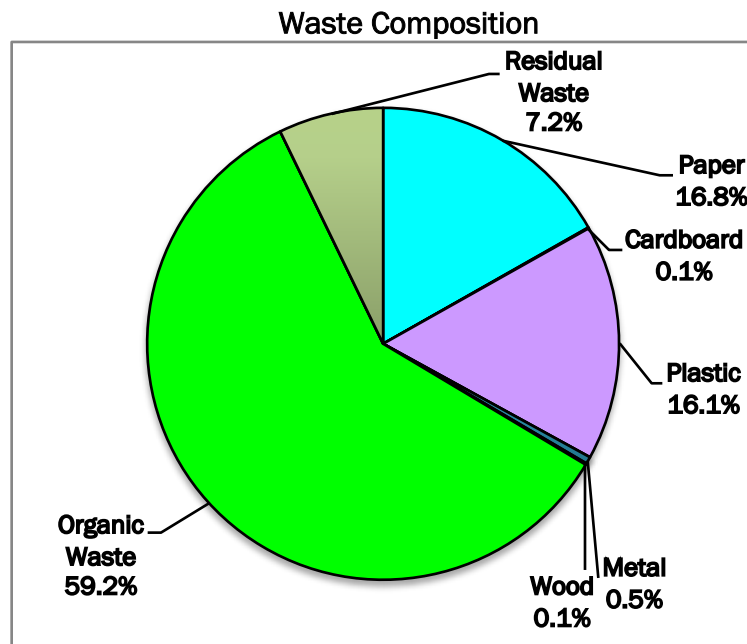
Georgian Owen Sound Campus Waste Audit Summary

2cg Inc. was retained by Georgian College to undertake a waste audit and waste reduction workplan for Georgian College Owen Sound campus.

The goal of this waste audit was to determine waste composition, the success of current recycling programs and to identify possible improvements and additional wastes which could be recycled.

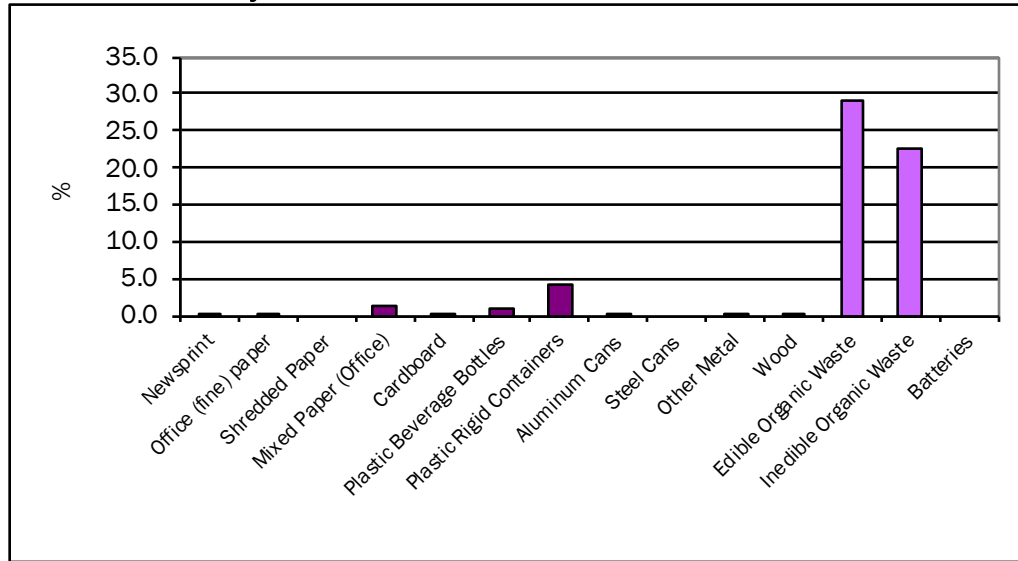
In 2018, Georgian Owen Sound Campus generated an estimated 34.4 tonnes of waste (disposed and recycled). Of that, an estimated 9.5 tonnes was recycled for a diversion rate of approximately 27.6%.

All non-hazardous solid wastes generated from a 1 day period were sorted on 30 November 2018 to assess waste composition. The most prevalent wastes found in the waste stream (black bags) included organics, paper and plastic followed by residual waste, metal, cardboard and wood.



It was estimated that approximately 8.3% of wastes audited had established recycling programs.

Overview of Recyclable Wastes in the Overall Waste Stream



Waste Reduction Work Plan and Recommendations

The time-line for this waste reduction work plan is from **1 January 2016 to 1 January 2020**.

Based on this audit, it is estimated that approximately 8.3% of wastes destined for landfill are readily recyclable with existing programs. This results in about 2.1 tonnes (i.e. 8.3% * 24.9 tonnes of waste) being potentially available for additional waste diversion. This does not include additional organic wastes generated at the Owen Sound campus, for which there is currently no diversion program.

General Initiatives

To facilitate continuous improvement, it is **recommended** that Georgian-Owen Sound campus set a goal and engage in a process to:

- The 50% waste diversion rate has not yet been achieved

To help develop a more accurate estimate of waste diversion it is **recommended** that the tracking of waste and recycling weights (i.e. garbage, printed paper and packaging, cardboard etc.) be improved.

It is **recommended** that Georgian staff document all recycling activities (e.g. number and type of carts emptied, weights of mixed container bin etc.) to improve the accuracy of future waste diversion rate calculations. This could include using monthly reporting from waste haulers and density estimates from dumpsters to estimate annual tonnage for the various waste diversion programs.

In general, it is **recommended** that Georgian prepare and update communications and education material annually (e.g. for Earth Week). This should include information on reduction, re-use and recycling programs, successes, missed opportunities and areas for improvement. Refined communications and education material could include posters, printed materials and displays that report on progress to date and provide a call to action for students and employees on Georgian's diversion goal and how they can best participate.

According to Ontario Regulation 102/94 the waste reduction work plan should refer to:

- Reduction as the first objective;
- Re-use as the next objective; and
- Recycling as the final objective.

To facilitate continuous improvement it is **recommended** that Georgian-Owen Sound Campus undertake the following efforts to reduce, re-use and recycle wastes:

Reduction Initiatives

The amount of paper used could be reduced through ensuring efficient use of paper. Students and staff will be encouraged to use both sides of paper when printing and photocopying documents.

Re-Use Initiatives

It is **recommended** that Georgian investigate forging links with community organizations such as Habitat for Humanity (building materials) and Goodwill Industries (furniture, other items) to facilitate additional re-use of wastes.

Recycling Initiatives

It is **recommended** that some proponents have been made to improve recycling **capture rate** but Georgian should continue to strengthen its recycling programs.

For instance, almost 1.1% of the waste stream consists of beverage containers that can be easily recycled, compared to 0.8% in 2017.

For instance, almost 2.2% of the waste stream consists of paper that can be easily recycled, compared to 2.7% in 2017.

For instance, almost 59.2% of the wastes generated at the Owen Sound campus consist of organic waste including food waste and paper towels and tissue, compared to 64.4% in 2017. There are diversion opportunities for much of this waste. It is **recommended** that an organics program be considered. This could initially focus on pre-consumer (i.e. before food is served) organic waste and later on possibly consider post-consumer organic waste.

Improved communications and education materials (e.g. posters etc.) described above will help better advertise and educate students and staff of available programs and how best to participate. Additional bins to divert organic wastes could be set out and the organics diversion programs could be expanded to residences.

Implementation Plan

The work will be coordinated by:

Mr. Shawn Watkins. Manager, Facilities Management, Georgian College

The work includes Georgian staff meeting with relevant staff to update the plan to reduce, re-use and recycle wastes and to update communications and education material by **1 July 2020**. This should include a summary of waste audit results.

A copy of the full Waste Audit Report and Waste Reduction Work Plan is available to all staff upon request.