

Waste Disposal and Processing Methods

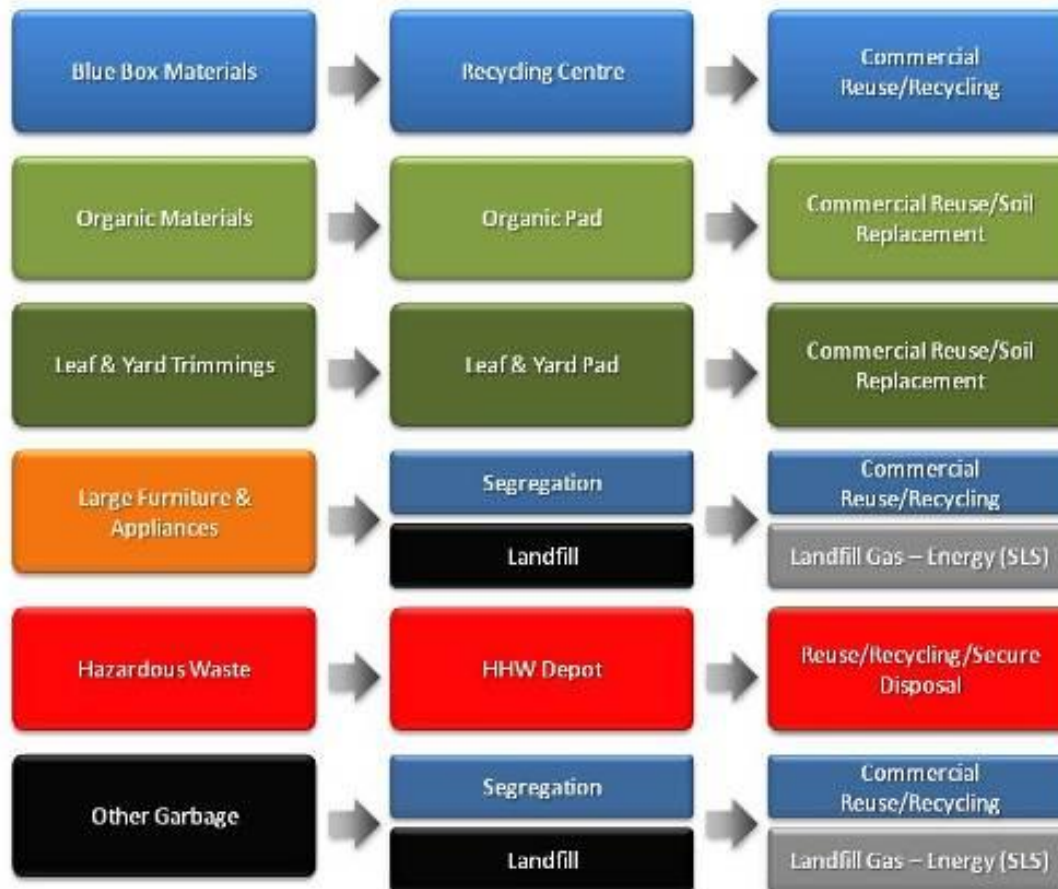
Presented by:

Chantal Mathieu and Aziz Rehman

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Managing our Waste Streams



Overview

The Committee had requested a high level report on various waste disposal and processing methods, including waste to energy processes. Today's presentation will provided a brief overview of:

- Composting Methods
- Thermal (Heat) Treatment Methods – Waste to Energy
- Sanitary Landfills
- Waste Exporting

A more detailed report will be provided as part of the Solid Waste Master Plan Update, scheduled to commence in 2021.

Composting

- Windrow Method



The City utilizes the windrow method to process its leaf & yard trimmings and organic materials.

Composting

- Aerated Static Pile Method



Composting

- Enclosed Aerated Windrow Method



Aeration pipes
located in
concrete floor

Composting

- Enclosed Aerated Static Pile (Non-Vessel)



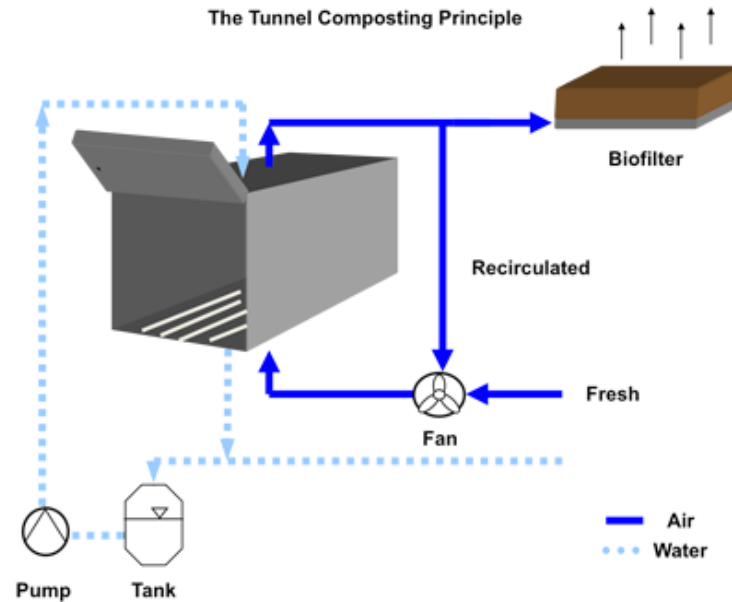
Composting

- Modular In-Vessel Containers (Static)



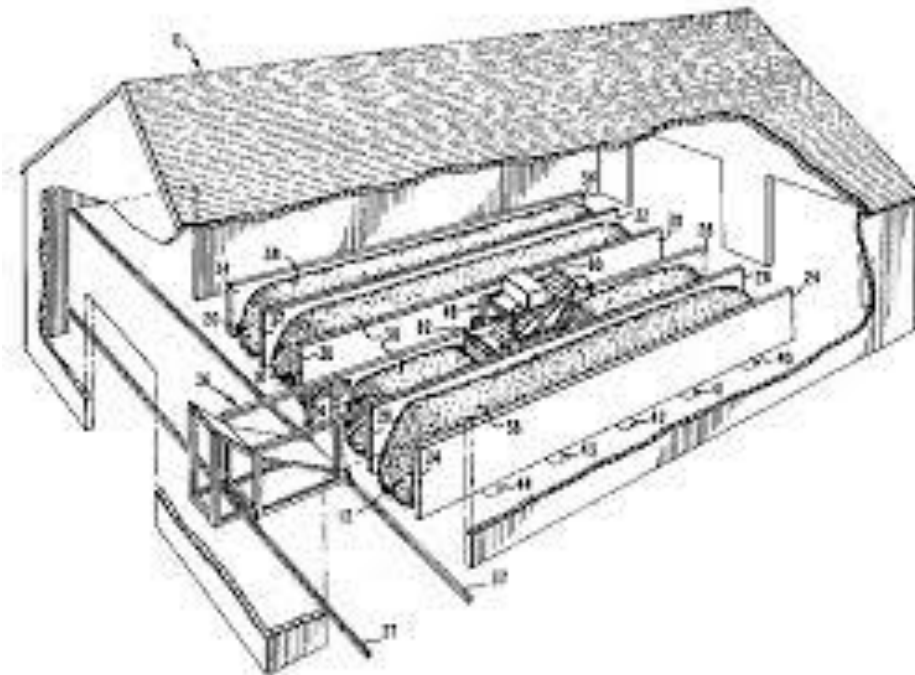
Composting

- Modular In-Vessel Tunnels (Static)



Composting

- In-Vessel Bays (Mechanical Agitation)



Composting

- Anaerobic Digestion



Thermal Treatment Methods (Energy from Waste)

– Conventional Thermal Treatment

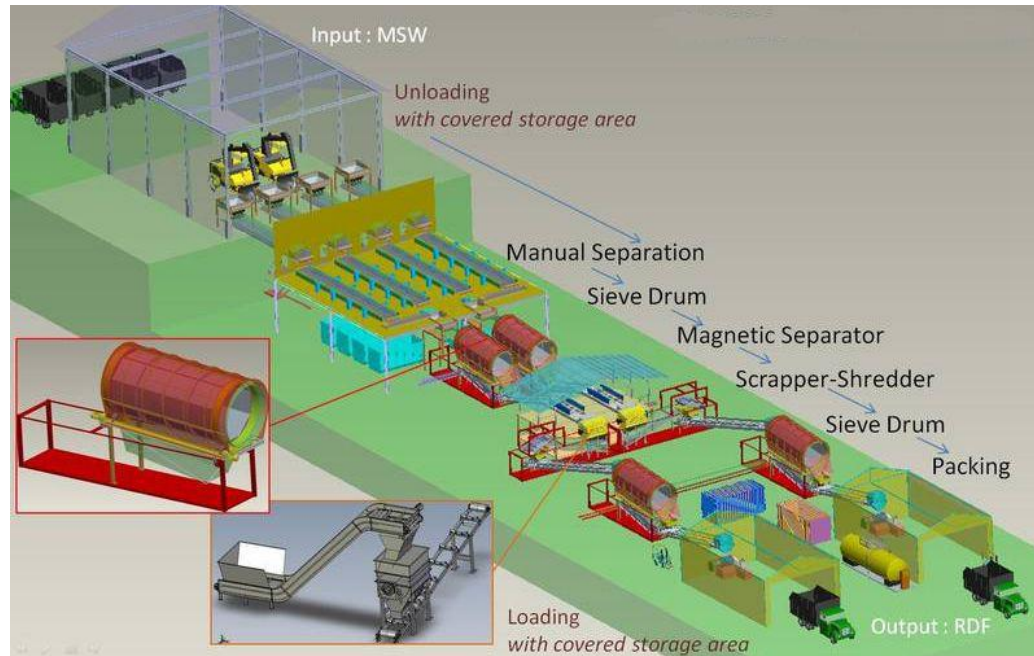


Thermal Treatment Methods (Energy from Waste)

- Advanced Thermal Treatment

- *Pyrolysis*
- *Gasification*
- *Plasma Gasification*

Refuse Derived Fuel

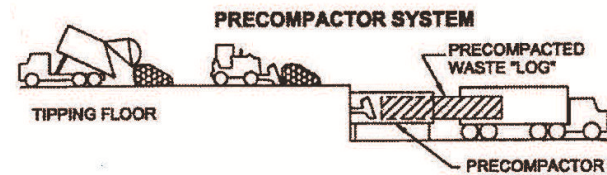
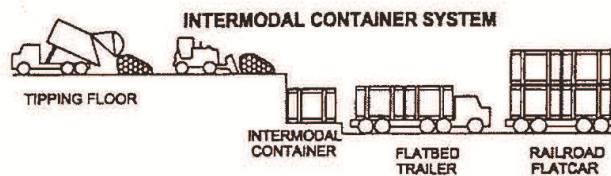
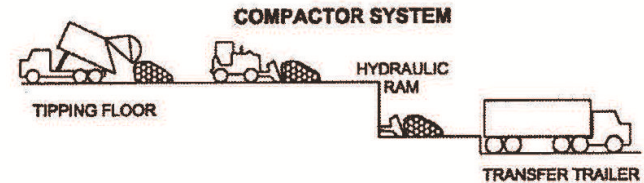
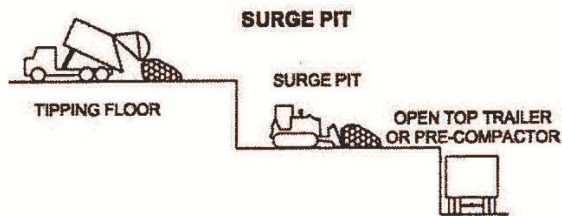
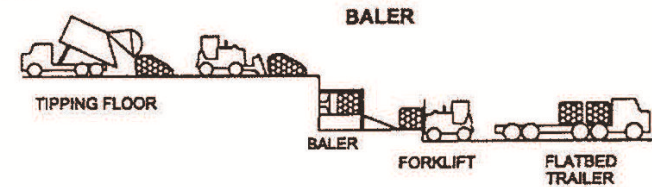
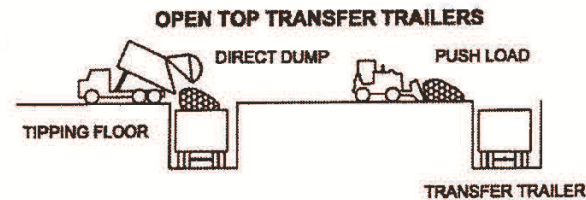


Sanitary Landfills



Sudbury Landfill & Waste Diversion Site

Waste Exporting



Next Steps

- Monitor new technologies
- Monitor rapidly changing legislation
- Expand programs
- Initiate Master Plan Update