

Appendix B Summary: Long Term Source Separated Organic Waste Processing Plan

Purpose:

- This Processing Plan has been prepared to ensure that processing services for source separated organic waste (SSO) can continue to be provided to York Region's residents in a cost effective and environmentally sustainable way for the next 25 years.
- Builds on a Feasibility Study conducted through consultant services by Region staff that evaluated several processing methods for SSO and determined that anaerobic digestion (AD) was the preferred technology option for the Region's feedstock.
- This Processing Plan considers various methods of implementing CH2M Hill's recommendations and identifies a preferred methodology to deliver AD processing services.

Key Findings:

- Eight analysis scenarios were used to assess alternate strategies for transitioning from the Region's current aerobic composting contracts to a long term solution using AD technology.
- Total lifecycle costs, GHG emissions, and other performance metrics were calculated for each scenario over a 20 year operating period from 2026 through 2045 to quantify the effects of key decisions such as contracted service delivery versus Regional ownership, facility location, facility size, and timing of phased construction.
- Study concludes that procurement of long-term contracts with privately owned AD facilities provides the highest overall value to the Region.

Recommended Actions:

- It is recommended that the Region issue a request for proposals (RFP) in 2020 to secure contracted AD processing capacity for all of the Region's SSO no later than 2024.

Link to Objectives:

- **Objective 2:** The Region contracts for anaerobic processing capacity to diversify its portfolio and inform future investment decisions.