

CIF Project #400 – Brantford Transfer Station Logistics Analysis

Project Background

The City of Brantford submitted an application to the CIF (CIF #611.8) to consider development of a transfer station at its landfill. The City's recycling collection contractor currently direct hauls recyclables to their MRF in Burlington for processing. Construction of a transfer station would allow the City to explore alternative options such as hauling into London, Hamilton or Guelph. This project examined various options to determine the most cost effective approach to consolidating and moving the City's recyclables.

Methodology

This project utilized transportation logistics modelling developed under CIF Project 362 and 401 to examine options including direct haul, roll offs and compacting trailers to determine the least expensive option available to the City. A one hour hauling distance was considered given the City's close proximity to available processing facilities.

Summary of Results

The analysis determined that within the proposed one hour hauling radius, the City's proposed option of utilizing roll offs was, in fact, the least cost effective option. Compacting Titan trailers offered a base price of approximately \$19/tonne (hauling cost only) and 52/tonne (amortized transfer station costs included) when capital costs were included. A roll off and transfer station option averaged almost \$64/tonne and direct haul costs were estimated to be approximately \$44/tonne by comparison.