

E&E Project Summary Report

Project Name: Mechanical Sorter Upgrade

Project Number: 179

Priority Area: MRF Rationalization

Lead Sponsor: Quinte Waste Solutions

Completed By: This project was suspended indefinitely

Total project value: \$291,500

E&E fund contribution: \$145,500

Actually spent: \$11,400

E&E contribution spent: \$5,400 plus final reporting costs

Project Overview:

I. Goals

- retrofit a mechanical OCC separator into an older existing MRF
- increase processing speed, capacity, efficiency
- increase storage
- allow for viewing of the setup
- report on return on investment
- conduct before and after fibre audits to show usefulness of sorter

II. Accomplishments

Preliminary site examination, pre-installation fibre audit, outline of structure change needs, incorporation into the design of safe viewing platforms to meet SO requirements, outline of installation process/footprint, and design of OCC separator layout installation.

The follow-up fibre audit, installation of the sorter, testing, commissioning and final report were not completed.

III. Lessons Learned/Best Practice implications

- There are considerable difficulties in retrofitting into an older MRF
- The need for structural alterations was greater than originally anticipated delaying the design work, and adding to complexity and cost.
- A dedicated individual to supervise the program directly would have been beneficial, rather than management attempting to add it to their responsibilities.

IV. Limitations

- A number of statute limitations were found with regard to the need to consider worker and visitor safety, as well as building codes requirements.
- Numerous structural construction and design issues were encountered, the result of dealing with a very old MRF.

Impacts (including tonnes diverted and cost impacts)

- Nil as the project did not proceed to the final stage.

Other Information

It is QWS's intention to design and build a new MRF, this will eliminate retrofit issues and enable mechanization.

