



Township of Admaston/Bromley Transfer Station Upgrades

**CIF Project 522.11
Final Report**

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Disclaimer This report is provided as opinion for discussion only and is **not** designed to replace qualified engineering, architectural or legal advice in any way. Municipalities are cautioned to obtain qualified advice and certified/approved drawings and plans prior to undertaking or adopting any recommendations that may affect their programs or facilities.

Background

Preamble As part of the objectives of the CIF, which include a proactive approach to assisting municipalities to implement best practices in blue box recycling, the CIF has provided financial assistance for local transfer station upgrades and the acquisition of upgraded transfer equipment.

The final report will include details of the following:

1. Summary of the construction activities of new recycling depot area detailing the changes made to improve the facility
2. Summary and detail of 6 months usage of the new recycling depot including operations costs for haulage and comparison of haulage costs in the previous year (for the same time frame).

Project Summary This project consists of transfer station modifications including construction of a concrete loading ramp, creation of a safer exit and entrance to the site from the road, new bins and signage.

The construction commenced during the months of October to November 2010 and was completed by June 30, 2011. Additionally the Township purchased 3-8 yard recycling bins directly from the manufacturer.

In December of 2010 staff installed the residential blue box recycling directional signage and the recycling drop-off service began operation on January 5th, 2011.

Goals & Objectives The upgrading of the loading ramp at the transfer facility is designed to improve the operation of the transfer of recyclables to the processing facility and improve accessibility for residents using the site. These improvements are expected to yield operational savings in the amount of time needed to load recyclables and increase materials received through a safer and more user-friendly site.

The installation of the public drop off depot will be a service enhancement for residents and will allow for the capture of materials that are currently ending up in the garbage. These upgrades will result in greater program effectiveness through increased capture of materials and greater efficiency through reduced program costs.

Project Description/Results

Description In the Fall of 2010 the Township commenced construction of the modifications to the transfer station and new concrete ramp. The construction was completed in June 2011.

No major obstacles were encountered during the design and construction of the project. Images of the site before and after completion of the project are attached to this report under appendix “A” and appendix “B”.

The Township purchased the 3 – 8 cubic yard recycling bins directly from Barrons at a total cost of \$7,220. No major obstacles were encountered with the acquisition and commissioning of the bins.

In December of 2010, staff installed the transfer station directional signage and the facility was opened for operations on January 5th, 2011.

Budget The project budget approved by CIF was 46.77% of \$28,650 for a total grant of \$13,400.00.

The actual project cost totaled \$26,390.34. A detailed project cost summary is attached to this report under appendix “B” below.

Results Following commissioning of the project and equipment, operating costs and tonnages delivered for processing were monitored. The year over year comparative results of the first six months of operations follow:

	Jan.-June 2010	Jan.-June 2011	% Change
Total Haul Costs	\$2600.00	\$2200.00	-15.38%
Loads Shipped	6	5	-16.66%

	2009	2010	Change
Stone Road Recyclables in tonnes	114.35	123.75	+ 9.4
Recyclables Percentage of Waste	19.57%	22.42%	+ 2.85%

Projected annual program impacts are:

- Haul cost decreased by 15% in the 6 months from January to June.
- Larger capacity bins require fewer loads hauled
- 3% (10 tonnes) increase in material expected annually due to enhanced access and increased use by residents.

Best Practices

This project fits within the following fundamental best practices as identified by the Blue Box Program Enhancement and Best Practices Assessment Project (2007).

- Optimization of operations in collections and processing

Appendix "A"

Site Pictures "BEFORE"



Appendix "B"

Site Pictures "AFTER"



Site Pictures "AFTER"



Appendix "C"

Project Cost Summary

Description	Cost	% Budget
Concrete Blocks	4,860.00	18.4%
Gravel	2,218.44	8.4%
Cement Pad	3,422.80	13.0%
Excavator & Trucks	1,040.00	3.9%
Backhoe	450.00	1.7%
Labour	6,170.10	23.4%
Bins	7,220.00	27.4%
Signage	1,009.00	3.8%
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Total	\$ 26,390.34	100%

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