



SSO and Recycling Infrastructure Sub-Committee - March 2, 2010

WR5.1 – SSO Processing Capacity

Geoff Rathbone, General Manager
Solid Waste Management Services
City of Toronto

WR 5.1 – SSO Processing Capacity (a) Disco Biogas Facility Timeline

Activity	Timing
Council Approval	February 2010
Final Agreement, Final Facility Design for Solid Waste Management Services (SWMS) Approval, Building Permits, Bonding, Ministry of the Environment (MOE) Permits	March – November 2010
Waste Excavation, Pile Driving, Foundation Preparation	November 2010 – Spring 2011
Construction/Commissioning	Spring 2011 – Fall 2012
Operational	Q1 - 2013



WR 5.1 - SSO Processing Capacity

(b) Dufferin emergency maintenance

- Rubber scrim between the roof and tank wall of the digester is failing.
- Function of the scrim is to maintain 'air tight' seal and prevent release of biogas.
- Proper replacement procedure requires temporary shut down and emptying of digester (6 – 9 months including recommissioning).
- In order to maintain facility production, will need to build parallel digestion and relocate biofilter.



WR 5.1 - SSO Processing Capacity

(b) Dufferin emergency maintenance - continued

- Second digester will sustain SSO processing capability at Dufferin during scrim replacement procedure. Otherwise capacity lost for 9 – 12 months.
- Post scrim replacement, both digesters will be operated and will increase processing capacity and biogas generation rate at Dufferin.
- Estimated cost \$4 million - \$6 million. Estimated duration of work 9 – 12 months if undertaken on emergency basis.



WR 5.1 - SSO Processing Capacity

(c) Contract Processing - Request for Proposals

- Council Direction SSO Capacity
 - 2/3 Public ownership (110,000 t)
 - 1/3 Private contracts (70,000 t)
- Current External Contractors
 - 3 private contractors
 - Expirations extend to 2015
- Considering Request for Proposal (RFP) which would:
 - Encourage establishment or upgrade of contract facility
 - Provide sufficient lead time for financing/approvals/construction