

# City of Guelph

## SSO Processing Technology

Contract No: 07-051



October 29, 2007

## Presenters



- Mike Deprez – General Manager, Organics
- Joe Lyng – Sales & Marketing Manager

## Agenda



- IMS Corporate Experience
  - Corporate History
  - Tenders & Partnerships
- GICOM Technology
  - Tunnel Composting
  - Odour Abatement
- Why the IMS Team?

## IMS Experience



- Established in 1996
  - Part of Walker Group of Companies
- Specialize in the following areas:
  - Compost & Organics Management
  - Biosolids Management
  - Landfill Management
  - Landfill Gas Utilization
  - Site Remediation
  - General Contracting





## IMS Experience



- Niagara Biosolids Facility  
2006 P3 Award of Merit (Region of Niagara)
- IMS Residential Drop-off (Region of Niagara)
- Britannia Landfill Gas to Electricity Facility  
2005 Silver Award (Region of Peel)
- Trail Rd. Landfill Gas to Electricity Facility  
(City of Ottawa, Ottawa Hydro)



## IMS Experience



- City of Guelph Waste Transfer Station
- Niagara Biosolids Corporation
- Niagara Enviro-Centre
- Trail Rd. Landfill Gas to Electricity Facility
- Britannia Landfill Gas to Electricity Facility
- Niagara Waste Systems Landfill Gas Plant



## IMS Experience




- D/B/O/O open windrow facility in 2002
- Processed approx. 150,000 tonnes to date
  - 40,000 tonnes in 2007
  - SSO, L&Y, IC&I
- Municipal Clients include:
  - Region of Niagara
  - City of Toronto
  - City of Guelph
  - Region of Waterloo
  - Region of Halton
  - City of Kingston



**waker** **GICOM** **COMPOSTING SYSTEMS**

**GICOM**  
Composting Systems

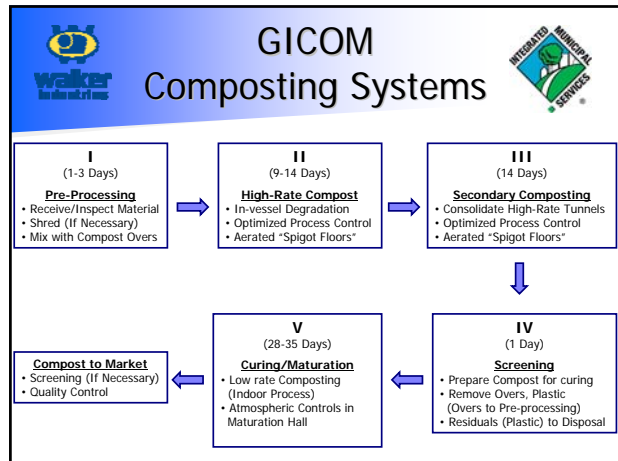
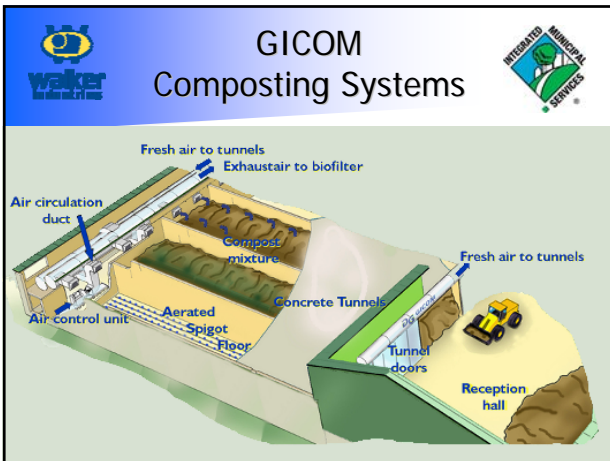
- Established in 1984
- Located in Biddinghuizen, Holland
- Designed/installed over 60 facilities worldwide
  - Sizes 1,000T/yr to 75,000 T/yr



**waker** **GICOM** **COMPOSTING SYSTEMS**

**GICOM**  
Composting Systems

- Based on composting organic material in a closed box (The Tunnel)
- Process air and water added to control aerobic composting process
- Computerized air handling system controls critical operating parameters
  - (Temperature, humidity, oxygen control)





## Odour Abatement



The first step is to prevent odours from occurring!

### I Facility Design

- Proven system design
- Capture all process & fugitive emissions

### II Facility Operation

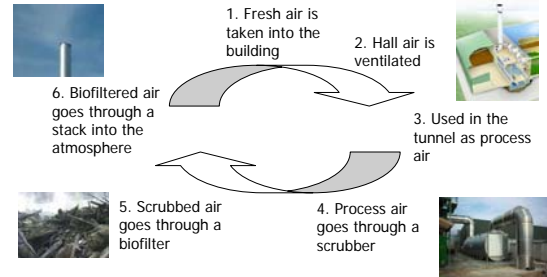
- Efficient handling
- Sufficient air flow
- Process control
- Enclosed exhaust
- Good housekeeping

### III Pollution Control

- Proven system design
- Steady loading to abatement equipment



## Odour Abatement



## Why the IMS Team?



- **Experience:**
  - Public/Private Partnerships
  - Design/Build/Operate Projects
  - Compost Operation/Marketing
- **Reliability:**
  - Proven Compost Technology
  - Simple Design
  - Modular
- **Contingencies:**
  - Niagara Environmental Campus