

LANDFILL SITE

LANDFILL AND COMPOSTING ACTIVITIES



WASTEWATER TREATMENT

LOCATION

Ontario, Canada

CLIENT NEEDS

The increased activity at the site required a major retrofit of the treatment chain for the leachate from the landfill and composting centre.

CHALLENGE

To substantially increase the capacity of the treatment plant using the existing basins and footprint. The treatment process had to be able to treat water with variable loads and flows.

DESCRIPTION

Biological treatment for removal of organic pollution (BOD₅) and nitrification, followed by suspended solid removal.

EQUIPMENT

- SMBR™
- Aeration system
- Coagulation/Flocculation
- DAF (Dissolved Air Flotation)
- Sludge storage tank
- Chemical feed systems
- Automation & Controls

SERVICES

- Equipment supply
- Construction
- Installation
- Start-up
- Training
- Performance testing
- Technical assistance
- Operational monitoring

Parameter	Value	Unit
Design flow	1,000	m ³ /d
BOD₅	Influent	115 mg/l
	Effluent	15 mg/l
TSS	Influent	425 mg/l
	Effluent	60 mg/l
N-NH₄	Influent	200 mg/l
	Effluent	1 mg/l
P Total	Effluent	1

Complementary Information - SMBR™

- Three serial bioreactors
- Outdated rotating bio-disks replaced
- Footprint: 115 m²