

ATLAS LANDFILL

Our Environmental Challenge: Water Control

The Atlas Landfill is an old industrial landfill that the City of Welland owns and Niagara Waste Systems is rehabilitating. The rehabilitation program is being funded from the waste tipping fees.



Newly constructed stormwater management system with wetland treatment

Efficiently operate

- Upgraded leachate storage pond and pumping station that provides increased retention and pumping capacity
- Constructed swales and ditches to manage water effectively and eliminate overflows

Acknowledge our part by

- monitoring groundwater and surface water twice a year
- monitoring leachate discharge to sanitary sewer on a quarterly basis for compliance with the sewer use by-law
- providing learning opportunities for the Jean Vanier High School across the street from the site
 - Students toured the stormwater wetland to build an understanding of the use of natural systems for water quality and quantity control

Reduce our impacts

- We:
- retrofitted a leachate collection system in cell 1, preventing leachate impacted groundwater from migrating off site and reducing pumping requirements
 - diverted clean stormwater to the Welland River, reducing pumping required

Take time to plan

- We:
- constructed cell 2 with a new engineered cell design that includes a clay liner and leachate under drain system

Higher Environmental Performance

- We:
- have a site champion to conduct all inspections

1st Innovation and leadership

- Installed a water tight Waterloo Barrier
 - prevents historic contamination from entering the Welland River
 - contains leachate so it can be pumped and appropriately managed



Leachate Pond



Waterloo Barrier



Pumping Station #1



Cell 2 Liner



Gareth Jones, Darren Fry, Dave Domalion

QUESTIONS / DISCUSSIONS

1. What measures could/have you taken to control water on-site?
2. What changes could you make to your water management system to reduce pumping?
3. What types of inspections are conducted at your site that provide for the appropriate management of water?
4. What water monitoring programs are in place at your site?



Acknowledge Our Part Our Environmental Messenger™

ATLAS LANDFILL

December 2012

COMMIT ■ CREATE ■ PARTICIPATE

Company _____ Date _____ Delivered by _____

Other topics discussed _____

Name	Signature	Name	Signature
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

RECORD RESPONSES SPECIFIC TO YOUR SITE

1. What measures could/have you taken to control water on-site?
2. What changes could you make to your water management system to reduce pumping?
3. What types of inspections are conducted at your site that provide for the appropriate management of water?
4. What water monitoring programs are in place at your site?

EARTH1st CHAMPIONS

OUR CHAMPIONS THIS MONTH

Our Ontario sites were hit by the rains from Hurricane Sandy. The volume of rain that fell created a challenge. Many of our operators were working overtime to ensure water was managed appropriately. It took some creative thinking on the parts of some.

In particular we would like to recognize the team at our Niagara Falls/Thorold campus.

They are particularly challenged with very inter-connected water management systems and applied several contingency measures to ensure water was effectively managed. WAI and WEG operation teams showed commitment and great teamwork. Sites were prepared and worked efficiently to control water levels.

GREAT JOB, EVERYONE!



Who do you know who commits, creates and participates in EARTH 1st?

Environmental Performance Department
P.O. Box 100, Thorold, ON L2V 3Y8
905.680.3693 environment@walkerind.com
www.EARTH1st.ca

Clearly no group can, as an entity, create ideas. Only individuals can do this.
A group of individuals may, however, stimulate one another in the creation of ideas.
Estill I. Green