

Halton Landfill Site - Methane Collection System Manhole Grouting

Project: Halton Landfill Site - Methane Collection
Chemical grouting of manholes

Location: Milton, ON

Client: Region of Halton

Consultant/

Contractor: Conestoga Rovers & Associates

Completion: October, 2006

Background:

Conestoga Rovers & Associates had recently installed six new manholes as part of the Methane Collection System at the Halton Landfill Site. After installation it was found that the precast concrete manholes were experiencing water infiltration, up to 10 gallons per minute, around pipe penetrations and precast joints. This situation needed to be corrected prior to putting the manholes into service.

Scope of Work:

Advanced Concrete Solutions was called upon to perform chemical grouting of the manholes. Three different polyurethane resins were utilized to complete the project:

- Elastogel GT1100 for the high water inflow areas.
- Rapid H100 for the void areas around the pipes penetrations.
- PU Flex 100 for the precast manhole joints.

Following confined space entry procedures under OSHA regulations, ACS was able to safely and effectively terminate the water infiltration problems at this facility.



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