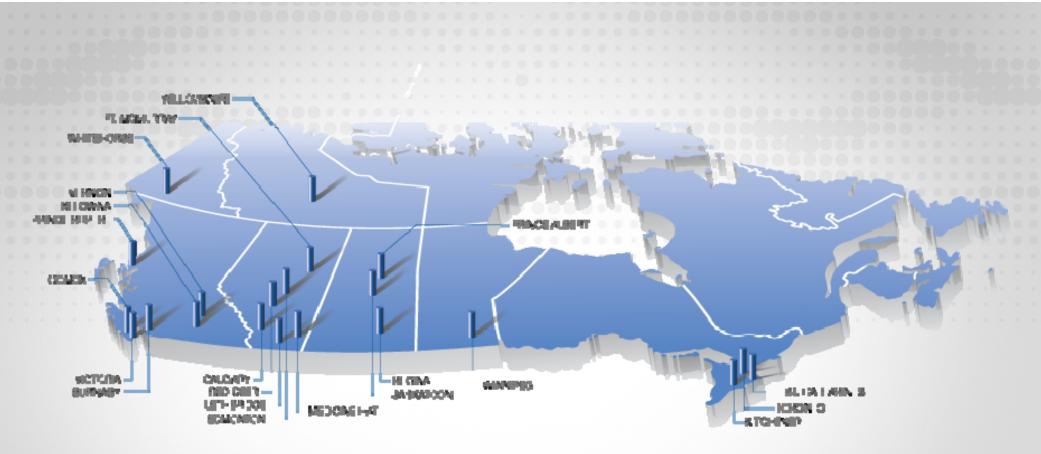




Designing and Constructing Landfills In Remote Communities

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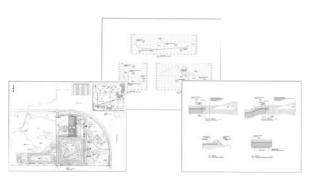


Founded in the mid 1940's, Associated Engineering has over 900 staff in 21 offices across Canada.

Staff with landfill experience spread across the country.

Introduction

- Landfill Design Challenges
- Construction Process
- Quality Assurance/Quality Control (QA/QC)
- Quantity and Material Balancing
- Designing for Closure and Post Closure
- Managing Clients Expectations









Landfill Design Challenges

- Managing Background
 Data
- Consistency is Key
- Managing the Earthworks Materials
- Understanding what Happens Next



The Construction Process

- Be a Team Player
- Consistent Approaches
- Product Availability
- Quick Response to Requests
- Adaptability
- Site Safety



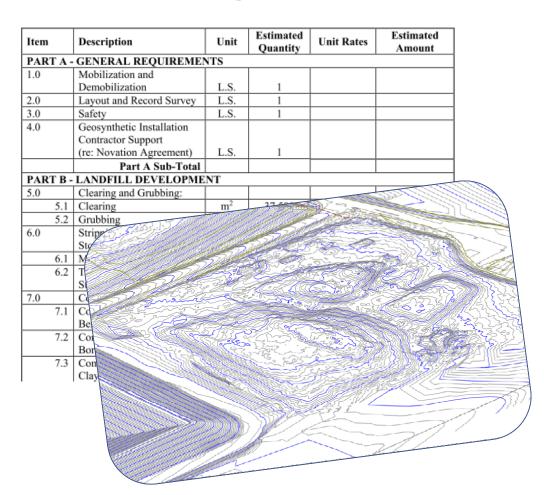
Quality Assurance/Quality Control (QA/QC)

- Site Inspection Challenges
- Tracking Changes
- Geotechnical Testing



Quantity and Material Balancing

- 10% is not good enough
- Too <u>much</u> Restocking
- Too <u>little</u> Product availability and delays
- Think about future requirements?



Designing for Closure and Post Closure

- Developing a Long-Term Plan
- Looking at Final product early on
- Capping Requirements
- Leachate Management



Managing Client Expectations

- Quick Design
 Turnarounds
- Multiple Designs
- Schedule
- Budget Design and Construction

