



Case History

DETAILED DESIGN AND CONSTRUCTION

**SPERLING
HANSEN
ASSOCIATES**

Vancouver Landfill Ph.1 Closure Design and Construction QA/QC

The City of Vancouver retained SHA to undertake design and provide construction QA/QC services on the 14.0 HA Phase 1 Closure which included a Leachate Collection System, Surface Water Control System and Engineered Geosynthetic Barrier System. CH2M Hill, as the prime consultants, designed and provided QA/QC for Landfill Gas Collection and Upgrades.

SHA provided a full range of engineering services on this assignment that included a conceptual design report, test pad slope stability program, detailed design drawings, technical specifications, tendering services and construction QA/QC supervision. SHA was able to incorporate recycled construction materials into the design, including the use of crushed glass as leachate/gas collection layer and crushed recycled concrete within the drainage layer and as road base materials which were both cost beneficial to the City.

City of Vancouver: Lynn Belanger 604-873-7000

Total Engineering Budget: \$ 1,606,000

Construction Budget: \$ 13,989,900



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- **Landfill Siting**
- **Landfill Closure**
- **Hydrogeological Investigation**
- **Environmental Monitoring**
- **Design and Operations Plans**