



# Case History

## DETAILED DESIGN AND CONSTRUCTION

**SPERLING  
HANSEN  
ASSOCIATES**

### Port Alice Bunker C and Drum Landfill Closure Design

*Ministry of Forests retained SHA / Quantum Murray LP team to undertake the design - build, and CQA on the Port Alice Bunker C landfill closure and Drum Landfill Fencing. Engineered Design features included surface water ditching, top soil and erosion prevention, passive landfill gas collection system, landfill gas piping network, passive gas vent detail, and barrier layer.*

*SHA provided a full range of engineering services on this assignment that included a conceptual design report, detailed design drawings, technical specifications, construction QA/QC and management of monthly progress draws. SHA developed an efficient team with Quantum Murray LP to complete the project successfully on time and within the approved budget.*

**BC Ministry of Forests, Lands and Natural Resources**  
**Joanna Runnells, M.Env.Sc., P.Geo tel: (250) 356-5209**  
**Project Budget: \$415,397**



### SPERLING HANSEN ASSOCIATES

**#8-1225 East Keith Road, North Vancouver, B.C.**  
**Phone (604) 986-7723 Fax (604) 986-7734**  
**E-Mail: [spierling@spierlinghansen.com](mailto:spierling@spierlinghansen.com)**

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