



## OUR PEOPLE

Sperling Hansen Associates has assembled a team with wide ranging expertise in solid waste management. These disciplines include:

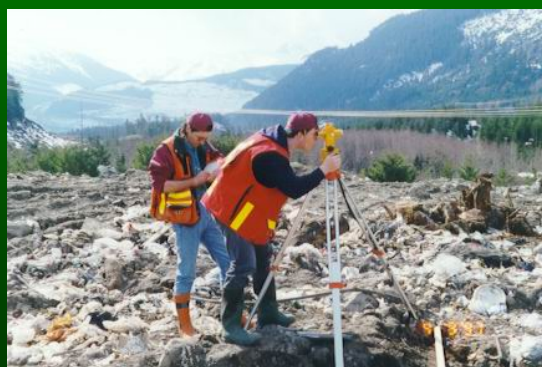
- Landfill design
- Site selection
- Operation and closure plans
- Transfer station design and operation plans
- Annual report preparation
- Leachate collection systems
- Wastewater treatment and pump stations
- Landfill fire extinguishments risk management & training
- Landfill gas control and utilization
- Environmental assessment & monitoring studies
- Environmental geochemistry
- Geotechnical engineering & engineering design

## We Take Pride in the Work we do.

Our design philosophy is to work with nature to develop the best possible environmental control systems while taking full advantage of any natural attributes at the site.

Our goal in landfill design is to develop operating strategies and closure concepts that will utilize on-site materials and return the land to an attractive and productive state, while minimizing the risk of post closure leachate impacts on the environment. Examples of this natural control approach include leachate minimization through surface water diversion and progressive closure at Penticton, hydraulic trap leachate collection systems at Hartland Landfill in Victoria and Hope and natural control clay barriers at the Knockholt Landfill in Houston and the Bailey Road Landfill in Chilliwack. In each case, use of natural attributes has resulted in a significant reduction in capital costs by eliminating the need for an engineered leachate barrier.

We are well-versed in environmental regulations and are familiar with operational requirements and economic constraints at small and large landfills in B.C. communities, including capital constraints, bear problems and winter operations.



Your landfill Specialists



## CONTACT US

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PLEASE VISIT OUR WEBSITE:  
[www.sperlinghansen.com](http://www.sperlinghansen.com)

## ABOUT US

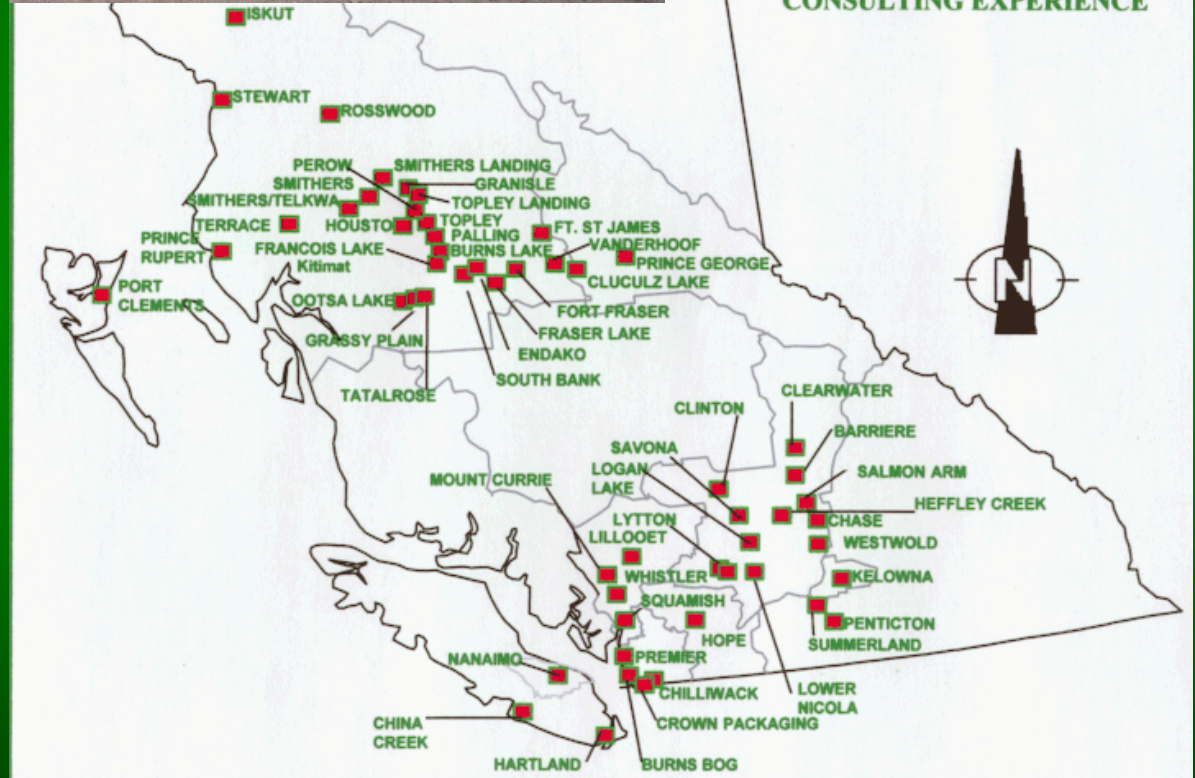
Sperling Hansen Associates Inc. is an engineering consultancy specialized in providing solid waste management services to municipal and corporate clients. The company was formed in 1995 by Dr. Tony Sperling and Poul Hansen, past president of Highland Valley Copper, one of the largest copper Mines in the world.



## OUR LANDFILL SERVICES

- ◆ Landfill Design and Operations Plans
- ◆ Landfill Siting Studies
- ◆ Closure and End Use Plans
- ◆ Landfill Operations Contracts
- ◆ Landfill Fire Extinguishments
- ◆ Transfer Station Siting, Design and Operations
- ◆ Wastewater Treatment and Pump Stations
- ◆ Landfill Gas Control and Utilization
- ◆ Leachate Collection Systems
- ◆ Waste Generation and Capacity Analyses
- ◆ Land Reclamation
- ◆ Settlement and Compaction Studies
- ◆ Environmental Assessments and Monitoring
- ◆ Geotechnical Stability Assessments
- ◆ Economic and Cost Analyses
- ◆ Tender Drawings and Master Plans
- ◆ Engineering Design, Specifications & Construction
- ◆ Construction Inspection QA/QC

Located in North Vancouver, British Columbia, Canada, the company presently has a team of qualified engineers and scientists with skills and experience to complete even the most demanding environmental management related projects



Unlike engineering firms that service a broad range of disciplines, Sperling Hansen Associates concentrates on solid waste management and environment-related work. SHA is intimately familiar with the regulations and with the special problems encountered in British Columbia, including heavy rainfall on the coast, harsh, dry summers in the interior and the north, the remoteness factor of many northern B.C. landfills, and tightening of government regulations.