



Case History ENVIRONMENTAL MONITORING

**SPERLING
HANSEN
ASSOCIATES**

North Ravine Fire Suppression Program - Campbell Mountain Landfill, Regional District of Okanagan Similkameen

- *Fire was suspected in the North Ravine based on historical information.*
- *Initial investigation using bar punch survey detected elevated concentrations of carbon monoxide indicating oxygen starved combustion (subsurface fire).*
- *An auger rig was used to drill and install steel monitoring wells, (emphasis was placed on health and safety measures).*
- *Thermistor strings were installed in each well to measure temperature at various depths within the landfill.*
- *A clay cover system and shot-crete edge seal was installed to suppress the combustion.*

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Project Budget: \$76 000



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