CASE STUDY: High-Resolution Site Characterization
Oil Field Northwest BC

Fort St. John, BC

Industry:

OIL & GAS

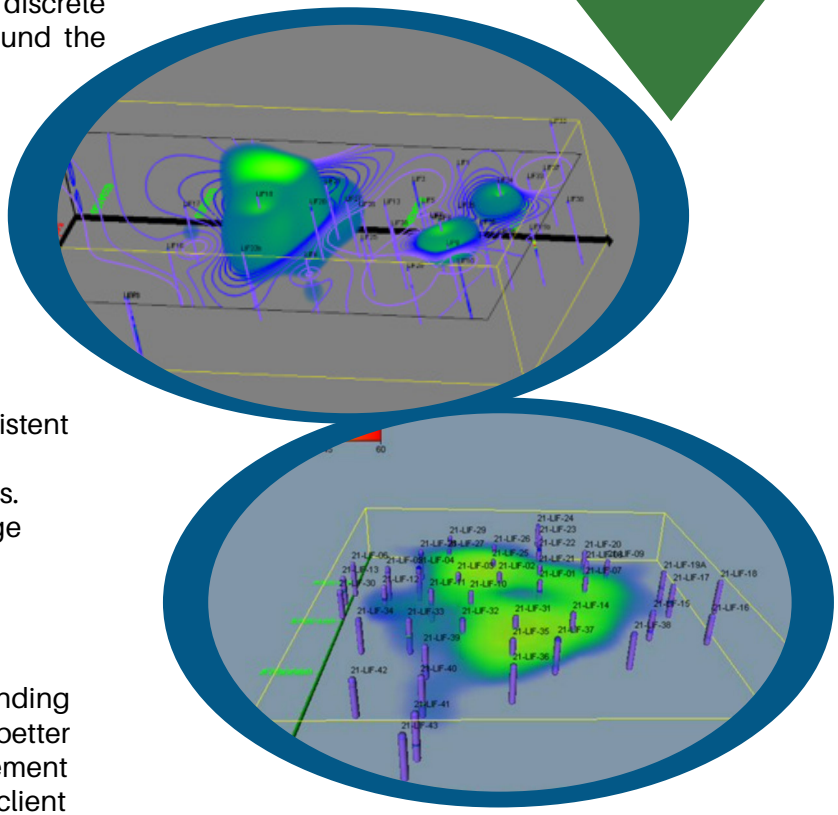
BACKGROUND:

An Environmental Firm in Calgary contracted SCG to conduct a High-Resolution Site Characterization (HRSC) assessment on remote and abandoned well pads, owned by a Canadian Oil and Gas company.

General Scope of Work:

The ultraviolet optical screening tool (UVOST) was utilized to collect discrete readings to investigate the distribution of contaminants in the area around the abandoned well pads:

- Five day deployment
- 28 UVOST points @ 234m total = 16,407 data points.
- 21 boreholes @ 118 m total = 65 samples.



Summary:

- 28 UVOST investigation points advanced.
- 25 locations displayed fluorescence consistent with petroleum hydrocarbons.
    - 22 were consistent with lighter-end PAHs.
    - 3 were consistent with fuel oil range contaminants.
- Elevated signal depth between 0-7.5 mbgs.

The 3D images provided a deeper understanding of the impact and stratigraphy. Through a better understanding of the site, a refined management plan was able to be developed, saving the client thousands of dollars.

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