

# Case 3: Northwest Territories, Canada

- This site was a former remote communications tower that was powered by a diesel generator. The generator and associated tanks leaked, causing hydrocarbon contamination in the soil. The remote location of the site required that all remediation equipment be transported to and from the site via helicopter.



## Solution:

- The site was a pilot project and bioremediated using a combination of electrokinetics, biosurfactants, and hydrocarbon degrading bacteria and fungi. **EKOGRID™** was used for delivery of remediation reagents and for remediation.

## Results:

- The site has been treated for 8 days and a significant reduction in hydrocarbons occurred in the soil.

Table 3. Northwest Territories Site 1

| Parameter | Pre-Treatment Sample 1 | Post-Treatment Sample 1 | Pre-Treatment Sample 2 | Post-Treatment Sample 2 | Pre-Treatment Sample 3 | Post-Treatment Sample 3 | Pre-Treatment Sample 4 | Post-Treatment Sample 4 |
|-----------|------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|------------------------|-------------------------|
| C6-C10    | 921 mg/kg              | 138 mg/kg               | <10 mg/kg              | <10 mg/kg               | <10 mg/kg              | 23 mg/kg                | <10 mg/kg              | <10 mg/kg               |
| C10-C16   | 18400 mg/kg            | 4700 mg/kg              | 372 mg/kg              | <50 mg/kg               | 3120 mg/kg             | 1890 mg/kg              | 758 mg/kg              | <50 mg/kg               |
| C16-C34   | 8040 mg/kg             | 1870 mg/kg              | 246 mg/kg              | <50 mg/kg               | 1750 mg/kg             | 599 mg/kg               | 1610 mg/kg             | 85 mg/kg                |
| C34-C50   | 175 mg/kg              | <100 mg/kg              | <100 mg/kg             | <100 mg/kg              | <100 mg/kg             | <100 mg/kg              | 1240 mg/kg             | <100 mg/kg              |

