

Laboratory Services for the Oil Sands Sector



- *Environmental baseline studies*
- *Environmental monitoring*
- *Process sample analysis*
- *Radiochemical analysis*
 - *NORM*
- *TOX/EOX using Neutron Activation Analysis*

Tel: 306-933-6932

Email:
analytical@src.sk.ca

Website:
<http://analytical.src.sk.ca>



Analytical Services for the Oil Sands Sector

SRC Environmental Analytical Laboratories offers a wide range of analytical services including testing for special assessments, routine monitoring programs and process samples. The laboratories handle all sample types including water, soil, sediment, biological tissue, vegetation, filters, and other media. Areas that are served are:

Baseline Studies for Environmental Impact Assessments

- Water, soil, sediment, vegetation and biological tissue
 - for trace metals, organics, nutrients and physical properties
 - CCME Hydrocarbons in Soil
 - radiochemical analysis
- Tree core analysis for trace metal profiles

Environmental Monitoring

- Water, soil, sediment, vegetation and biological tissue
 - for trace metals, organics, nutrients and physical properties
- Stack emissions sampling and analysis
- Hazardous waste classification
- Oilfield Wastewater Analysis
- CCME Hydrocarbons in Soil
- Total and Extractable Organic Halides (TOX/EOX) using Neutron Activation Analysis (NAA)

Process Sample Analysis

- Analysis of oil sand, reject, slurry, froth, tailings
- Bitumen, water, solids using modified large Dean-Stark refluxing apparatus
- Accelerated Solvent Extraction (ASE) for oil sand matrix

Radiochemical Analysis

- Naturally Occurring Radioactive Material (NORM)
 - NORM is found in low concentrations in oil and gas deposits
 - it can become concentrated in such materials as pipe scale and waste products
 - as such NORM causes concerns in transportation, handling and disposal
 - the isotopes regulated under the NORM guidelines are U ²³⁸ series, Th ²²⁸, Th ²³⁰ and Th ²³², Ra ²²⁶, Ra ²²⁸, Pb ²¹⁰, K ⁴⁰