

Oil Sands Monitoring (OSM)

2016-2017 PROJECT PLAN SUMMARY

Project Name:	A1-1-3 Ambient Air Monitoring: Cold Lake Oil Sands
Type of Project:	Long Term
Delivery Agent:	Lakeland Industry and Community Association (LICA)
Project Contact:	Bob Myrick (AEP) - bob.myrick@gov.ab.ca Michael Bisaga (LICA) - lica2@lica.ca
Budget:	\$ 988,820

Project Description:

The Cold Lake Oil Sands long-term ambient air monitoring network consists of passive, continuous, and integrated monitoring programs. LICA's continuous monitoring network includes permanent stations in Cold Lake (Cold Lake station), southwest of St. Lina (St. Lina station), and near oil sands operations, southwest of Marie Lake (Maskwa station) as well as a portable air monitoring system (PAMS) that can be dispatched to communities throughout the region. Integrated sampling of volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAH) is conducted at the Cold Lake and PAMS stations; specialized equipment can also be deployed to automatically collect additional VOC samples at PAMS (e.g. during odour events). Project A1-1-3 consists of continuous and integrated monitoring in the Cold Lake oil sands region.

Project Objectives:

Ensure ongoing operation of the Cold Lake Oil Sands Ambient Air Quality Monitoring Network to address stakeholder concerns and emerging air quality issues

Key Outcomes:

This project will deliver data for ozone (O₃), fine particulate matter (PM_{2.5}), sulphur dioxide (SO₂), total reduced sulphur (TRS), oxides of nitrogen (NO-NO₂-NO_x), total hydrocarbons (THC), Methane/non-methane hydrocarbons (NMHC), wind direction and wind speed.

Geographic Scope:

The Lakeland Industry and Community Association airshed including the Cold Lake oil sands deposit

Associated Data and Reports:

Data is stored electronically and in hardcopy, on LICA-owned servers, and permanently on the AEMERA/AEP air DATA online repository. A description of monitoring activities conducted will be provided at the end of each quarter.