

## Oil Sands Monitoring (OSM)

### 2016-2017 PROJECT PLAN SUMMARY

<b>Project Name:</b>	<b>A1-2-2 Ambient Air Passive Monitoring: Cold Lake Oil Sands</b>
<b>Type of Project:</b>	Long Term Monitoring
<b>Delivery Agent:</b>	Lakeland Industry and Community Association (LICA)
<b>Project Contact:</b>	Bob Myrick (AEP) - bob.myrick@gov.ab.ca Michael Bisaga (LICA) - lica2@lica.ca
<b>Budget:</b>	\$ 118,821

#### **Project Description:**

The Cold Lake Oil Sands long-term ambient air monitoring network consists of passive, continuous, and integrated monitoring programs. LICA's core passive monitoring network has been in operation since 2003. Samplers are distributed using a 3 x 3 township grid pattern (more densely around oil sands operations) and analyzed on a bi-monthly basis. Data generated by the passive monitoring program are used for understanding regional (or spatial) patterns in air quality, long term trend analyses, and informing potential future locations for continuous monitoring stations. Ozone, nitrogen dioxide, sulphur dioxide, and hydrogen sulphide samples are collected in the passive monitoring network. Project A1-2-2 consists of the passive monitoring in the Cold Lake oil sands region.

#### **Project Objectives:**

Determine long-term trends and spatial variation in specific ambient air quality parameters to address stakeholder concerns and emerging air quality issues

#### **Key Outcomes:**

This monitoring program will deliver data on ambient concentrations for ozone, sulphur dioxide, nitrogen dioxide, and hydrogen sulphide on a spatial grid over the Cold Lake oil sands region. Long-term trends on these parameters will also be delivered.

#### **Geographic Scope:**

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

#### **Associated Data and Reports:**

Data are 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.