

## Oil Sands Monitoring (OSM)

### 2016-2017 PROJECT PLAN SUMMARY

<b>Project Name:</b>	<b>W1-1-1 Water Level and Flow Monitoring</b>
<b>Type of Project:</b>	Long Term Monitoring
<b>Delivery Agent:</b>	ECCC/AEP
<b>Project Contact:</b>	Malcolm Conly (ECCC) - malcolm.conly@canada.ca Anil Gupta (AEP) - anil.gupta@gov.ab.ca
<b>Budget:</b>	\$ 2,700,000

#### Project Description:

Water levels are monitored at key nodes throughout the lower Athabasca River system which is integrated with the oil sands water monitoring program. Water level data are used to calculate river and stream discharge to assess hydrologic status and trends and to support calculation of water chemistry loads, interpretation of aquatic chemistry and ecosystem (fish and benthos) monitoring information, water quantity management and river modelling.

Meteorological monitoring is also conducted to inform the interpretation of hydrometric data and to support modelling. The meteorological monitoring program supplements existing meteorological monitoring. Opportunities for integration with JOSM Air component are being explored.

#### Project Objectives:

The establishment of long-term hydrometric data record that will be used to assess watershed hydrology and trends, to support the interpretation of water quality and aquatic ecosystem based measures, and to support modelling activities. Water level and discharge data will be accessible to external users in near-real time via web-access.

#### Key Outcomes:

Meteorological data and Hydrometric data (water levels and calculated river flows) are generated in the Oil Sands region to a standard that is acceptable to the Water Survey of Canada.

#### Geographic Scope:

Lower Athabasca River from the Town of Athabasca to just upstream of the Athabasca River Delta, major tributaries to the Lower Athabasca River including the Christina River and key low order tributaries, and key lakes in the Lower Athabasca River area.

#### Associated Data and Reports:

ECCC Data is made available through [Water Survey of Canada's Water Office](#) or the [Joint Oil Sands Monitoring Portal](#) and can be downloaded in CSV format. Reports include Annual Hydrometric Report. AEP data is made available through RAMP web-site and can be downloaded in CSV format. Report includes Annual Technical Report.