

### 2016-2017 PROJECT PLAN SUMMARY

<b>Project Name:</b>	<b>W1-3-1 Rationalization of the Watershed Monitoring Network – effectiveness and efficiency optimization</b>
<b>Type of Project:</b>	Focused Study
<b>Delivery Agent:</b>	ECCC/AEP
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<b>Budget:</b>	\$ 50,000

#### **Project Description:**

The current water quality and water quantity monitoring networks are an amalgamation of monitoring programs that existed prior to the creation of Joint Oil Sands Monitoring (JOSM) and new monitoring initiated as a part of JOSM. The JOSM design has yielded considerable new information on water quality and water quantity in the region. While detailed site rationalization occurred for both the water quality and quantity networks with the initiation of JOSM, there is now a need to review the existing network design and optimize network design, especially with respect to co-location of water quality and quantity measurement stations and add new monitoring efforts. This project is to convene a workshop to bring together relevant project leads and scientists to review and revise the existing water quality and quantity network design.

#### **Project Objectives:**

- Review and rationalize the current JOSM water quality and quantity monitoring network (site locations; sampling frequencies; data usage; etc.), from a data and risk-based perspective and, where appropriate, propose adjustments to optimize the monitoring network.
- Revisit the original JOSM water design and make adjustments to the monitoring network based on the review conducted above, and based on learnings over the past four years.
- Develop (and cost out) a new list of water quality and quantity monitoring sites including sampling frequency and discuss and agree on monitoring program delivery by each organization (i.e., AEP versus ECCC).

#### **Key Outcomes:**

The review of regional water quality and quantity monitoring efforts will result in an optimized network design.

#### **Geographic Scope:**

As per the Joint Oil Sands Monitoring Plan (JOSM), the program focuses on the Athabasca River, its tributaries, the Extended Geographic Area (EGA), and areas experiencing in situ bitumen.

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

No new data will be collected. Reports include Workshop Report and Recommendations.