

Project Summary Table - Athabasca Oil Sands Corp. MacKay River In-situ Project			
Name of Company that will hold Approval:	Athabasca Oil Sands Corp.	Company Contact Name and Information:	Jerry Demchuk Manager, Regulatory and Stakeholder Affairs Suite 2000, 250-6th Avenue S.W. Calgary, Alberta, T2P 3H7, P:(403) 237-8227, F: (403) 264-4640
Company Website:	www.aosc.com	Type of Project (e.g., in-situ, mine, quarry, upgrader, etc.):	AOSC's MacKay River Project is an In Situ, Thermal Recovery Project.
Types of Activity (major project processes):	The Project will consist of: steam generation and distribution, water treatment, oil/water separation, remote steam generation and all associated field/gathering infrastructure.	New Project Expansion or Modification:	AOSC's MacKay River project is a NEW facility.
Project Location (Legal Land Description) and Municipality:	The project is located in the Regional Municipality of Wood Buffalo in AOSC's MacKay River Lease area which includes portions of twps 91 and 92, rmg 15, 16 W4M, twp 90 rmg 13, 14 W4M, twp 89, rgn 12, 13, 14 W4M and twp 88, rgn 12, 13, 14 W4M. See Attached Map.	Life of Project (# years, YYYY - YYYY):	The Project life is estimated at 30 years (2014-2044) broken down into multiple phases with the initial development starting in 2014.
Average Production Capacity per Year (specify units):	The Project will have an ultimate of size of 150,000 bpd (Calendar Day Basis). This will be developed in multiple phases. The initial development will be constructed up to 50, 000bpd. Final sizing for the development will be set prior to filing at the end of 2009.	Power Source (If on site power generation describe quantity (MW) and facilities):	The power source for the project will consist of Grid for the initial development, and Cogen for second phase. A combination of site generated and Grid power will ultimately be used for the the remaining phases of the Project.
Nearest Residence (km):	The nearest residence to the project is located along the Tower road, approximately 18.5 km north east. The nearest community is Fort McMurray located approximately 27.5 km's east of the Project.	Private or Public Land:	The project will be located on Public lands.
Nearest FN Reserve(s) (name and km):	The nearest FN reserve is Fort McKay (Reserve #174) located approximately 36 km's northeast of the Project.	Total Project Area (ha):	Estimated size for the Total Project Area (150 kbpd) is 21,496 ha.
Total Area to be Disturbed (ha):	Estimated Total Area that will be disturbed by the MacKay River Project is 3400 ha.	Infrastructure Requirements (roads, pipelines, water intake, storage tankage):	Infrastructure requirements of the project will consist of: lease roads and steam, water supply, water disposal, NG, Emulsion and Dilbit/Synbit pipelines.
Method of Product Transport (e.g., pipeline, rail, truck):	Pipeline	Project Products	The Product from the Project will include blended bitumen.
Location of End Market:	Still to be determined	Project By-Products	No commercial by-products are expected to be produced by the project.
Expected Types of Air Emissions (e.g., SO ₂ , NO _x , CO ₂):	Common products of combustion (primarily NO _x , CO) of fuel mainly composed of sweet natural gas and with a small amount of produced gas.	Expected Types of Effluent Releases (note the water bodies the effluent will be released to):	Expected effluent from the project will be limited to storm runoff from plant site and well pads.
Types of Wastes Generated:	AOSC anticipates that the Project will produce construction and operations wastes. Wastes will be classified and segregated on-site and tracked according to provincial requirements. Where possible wastes will be reused or recycled. Small quantities of Class I wastes may also be generated. These wastes will be disposed as per appropriate regulations. The majority of wastes will be suitable for transportation and disposal at a Class II landfill.	Waste Management Facilities (i.e., Disposal Well, Salt Caverns, Landfill or Third-Party):	Waste Management facilities associated with the project will include water disposal wells, and a potential Salt Cavern well. Other wastes including domestic garbage will be hauled off-site to approved third party waste disposal facilities.
Nearest Waterway/Water body (name and km):	The nearest named water bodies to the project are the McKay River, located approximately 14 km's northwest of the plant site location and the Athabasca River, located approximately 20.5 km's south of the plant site location.	Watercourse Crossings (type of crossing, any Class A to C water bodies):	All crossings associated with the project fall into category Class "C". Phase 3, (2021) of the project will require an access road and bridge crossing of the MacKay River to access the Northern Lease Area.
Water Act License Required (Y/N Unknown/NA. If yes: purpose, source and estimated volumes):	A Water Act License is required for the project to supply non-saline water which will be used to provide make-up for process requirements, largely steam generation. Freshwater will also be used for domestic uses for construction camps and permanent facilities. Source locations and volumes required will be provided in the Project Application.	Water Act Approval Required (Y/N/Unknown. If yes, purpose):	Yes, the MacKay River Facility will require a Tier 2 Water Act Approval.
Fisheries Act Authorization Required (Y/N/Unknown):	Unknown -AOSC is working with DFO to ensure all required Fisheries Act Authorizations are obtained.	Navigable Waters Protection Act Authorization Required (Y/N/Unknown):	Unknown -AOSC is working with DOT to ensure all required Nav. Waters Authorizations are obtained.
Pit Lake(s) Required (Y/N/Unknown/NA. If yes, # and ha):	Not Applicable	Nearest Water Well (km) (Domestic and Commercial):	The nearest domestic water well is located at the closest residence which is located 18.5 km's to the northeast along the Tower Road. The nearest commercial water well is located at the Petro-Canada MacKay in-situ project.
Nearest Provincial Highway (# and distance):	The nearest Provincial Highway is Highway #63 located approximately 40km east of the Facility location.	Access to Provincial Highway (no improv req/improv req/const req):	AOSC anticipates that no improvement is required but will conduct a Traffic Impact Assessment (TIA) as part of its project application.
Traffic Impact Assessment Required (Yes/No/Unknown):	Yes	Pre-disturbance land Use(s):	The Project is located in Wildlife Management Unit 518. Predisturbance land use includes recreation, trapping, forestry along with conventional oil and gas development.
Reclamation Start and End (YYYY - YYYY):	Average Life of Pads is 10-12years. First Pad reclamations would start at this time (~2024) and continue for the life of the project estimated to last 30years (~2044). The plant site and key infrastructure would also be reclaimed at the end of the Project.	Post-reclamation Land Use(s):	AOSC anticipates that Post-Reclamation land use will consist of re-establishment of the area back to forest cover of equivalent capability.
Any Unique Environmental or Social Considerations (if yes, describe):	The Project is located within the Wabasca-Dunkirk caribou zone. The Thickwood Fen area is also located on the eastern edge of the lease area.	Historic Resources Impact Assessment Required (Y/N/Unknown):	Yes, an HRIA will be conducted as part of the Regulatory Application and EIA for the Project.
Estimated Construction Person-Years of Employment:	Estimated construction person-years of employment for the Project is 8430.	Estimated Operation Persons-Years of Employment:	Estimated operation person-years of employment for the project is 5210.
Construction or Operation Camp Required (Y/N/Unknown. If yes, on-site or off-site):	YES AOSC anticipates that camps will be required for both Construction and Operations. It is not determined yet if these will be located on or off-site.	Method of Transport of Employees to Site (Construction and Operation):	AOSC is currently evaluating the effectiveness of using buses to transport workers.
Date Stakeholder Engagement Started (Public/Aboriginal):	AOSC has been conducting stakeholder engagement activities on its MacKay River lease area since April 2008.	Aboriginal Groups Involved in Stakeholder Engagement:	AOSC is actively engaged in consulting with the following First nations: Fort McKay, Athabasca Chipewyan, Mikisew Cree, Fort McMurray #468, Chipewyan Prairie, various Metis Locals including The Wood Buffalo Metis Corporation, Local 1935, Local 125, Local 63 (consultation will occur through the Fort McKay IRC) and Willow Lake/Chard (consultation will occur through the Wood Buffalo Metis Corp.).