

Project Summary Table

Cenovus FCCL Ltd. Christina Lake Phase H and Eastern Expansion

Proponent Name:	Cenovus FCCL Ltd.	Date:	July 17, 2012
Project Name:	Christina Lake Thermal Project - Phase H and Eastern Expansion	Company Contact Name and Information:	Cohl Robertson Senior Regulatory Advisor Email: ChristinaLake.Expansion@cenovus.com Phone: 1-877-766-2066
Name of Company that will hold Approval:	Cenovus FCCL Ltd.	Company Website:	www.cenovus.com
Type of Project (e.g., in-situ, mine, quarry, upgrader, etc.):	In Situ	New Project, Expansion, Additional Phase or Modification:	Christina Lake Thermal Project – Phase H and Eastern Development Expansion (Phases A-G currently approved)
Projected Construction Start (Month/Year):	Sept/2014 (dependent on regulatory approvals and market conditions)	Projected Operation Start (Month/Year):	Mar/2019 (first steam) (dependent on regulatory approvals and market conditions)
Life of Project (# years, YYYY – YYYY):	25+ years (2016 – 2041)*	Project Location (Legal Land Description and Longitude/Latitude) and Municipality:	Approximately 20 kilometers east of Conklin, Alberta in TWP 75-77 Rge 4-6, W4M. Latitude/Longitude: 55.58129, -110.88765 (main plant site) Municipality: RM of Wood Buffalo and Lac La Biche County
Total Project Area (ha):	19,166 ha*, 9,065 ha* incremental as part of this application	Private, Federal or Provincial Land:	Provincial Public Land
Nearest Residence(s) (km):	Conklin, Alberta (20 km)	Types of Activity (major project processes, components including capacity/size, if available):	Steam generation, distribution and injection, oil production, collection and separation, tankage, well pads, water disposal wells, pipelines, powerlines, substation, roads.
Nearest First Nation Reserve(s) and Métis Settlements (name and km):	Chipewyan Prairie First Nation (Winefred Reserve Lands) ~10 km from center of new project area to center of reserve lands	Project Products:	Bitumen
Power Source (if on site power generation describe quantity (MW) and facilities):	Third party utility company (Fortis) plus two onsite 47.3 MW gas turbine generators (GTGs), Part of Phase F	Method of Product Transport (e.g., pipeline, rail, truck, etc.):	Pipeline

Average Production Capacity per Year (specify units):	50,000 bpd incremental oil production capacity for Phase H Total Christina Lake production – 310,000 bbl/day annual average.	Infrastructure Requirements (e.g., roads, pipelines, water intake, storage, tankage, etc.):	Addition to central processing facility, SAGD well pads and pipelines (steam, emulsion, fuel gas, produced gas), roads, borrow pits. Additional infrastructure, sales oil tanks, source and disposal pads, electrical power lines.
Location of End Market:	Currently USA, but this may evolve as Alberta develops upgrading Capacity or access to new markets.	Expected Types of Air Emissions (e.g., SO ₂ , NO _x , CO ₂ , etc.):	NO _x , CO ₂ , SO ₂
Project By-Products:	There will be no marketable by-products generated.	Types of Wastes Generated:	Blowdown water, regen waste, lime sludge, drilling waste, domestic waste.
Expected Types of Effluent Releases (note the water bodies the effluent will be released to):	Treated domestic waste water effluent from existing camp facilities is released nearby over land and not released to any specific water body. (This is an existing and approved operation, no new operations are apart of this project.)	Nearest Waterway/Waterbody (name and km):	<ul style="list-style-type: none"> Christina Lake (<1 km) Winefred Lake (<1 km)
Waste Management Facilities (i.e., Disposal Well, Salt Caverns, Landfill, or Third-Party):	Disposal wells for liquid wastes. Third party disposal of other wastes.	EPEA Approval Required (Y/N/Unknown):	Yes
Watercourse Crossings (type of crossing, any Class A to C waterbodies):	Up to four new proposed crossings: Fisheries Assessment for proposed crossings have not been completed however will comply with Operational Position Statements. Cenovus's normal construction methods follow OPS requirements. Class D watercourses exist within the Project Area. Crossings may include Type 1, 2 and 3, as well as underground and aboveground pipelines.	Water Act Licence Required (Y/N/Unknown. If yes, purpose, source and estimated volumes):	No. Additional fresh water sources will not be required for Phase H.
Regulatory Board(s) (ERCB/NRCB/AUC):	ERCB	Waterbodies Required (Y/N/Unknown/NA. If yes, # and ha):	No

Water Act Approval Required (Y/N/Unknown. If yes, purpose):	Unknown	Will any of the components or activities associated with the project affect fish and/or fish habitat? (Y/N):	No, the project will be designed to minimize impacts to fish and fish habitat.
Identify applicable sections in the Schedule to the Federal Comprehensive Study List Regulations: (Y/N/Unknown):	Unknown	Identify applicable federal legislative or regulatory requirements referred to in the Law List Regulations (i.e., permits, licenses, authorizations):	Current planning indicates the project will not fall under any of the requirements in the Law List Regulations
Are any works or undertakings proposed to take place in, on, over, under, through or across a navigable water? (Y/N):	Yes - known navigable crossings. Public Notice will be placed according to filing requirements once exact crossing locations are determined. An Environmental Assessments will be conducted parallel with a navigational impact assessments. Crossing methods will be mitigated through EA screening which we anticipate will not require a review by CEAA.	Nearest Water Well (km) (Domestic and Commercial):	There are many saline and non-saline wells in the area as well as incremental saline wells required for Phase H. The nearest water well is 'AB WS 0000547' located at 9-17-76-6W4
Nearest Provincial Highway (# and distance):	Highway 881 (10 km)	Access Improvements to Provincial Highway:	None expected at this time.
Traffic Impact Assessment Required (Yes/No/Unknown):	Unknown, an assessment was recently completed in 2011, the change as a result of the project will be minor in relation to what is currently approved and assessed.	Total Area to be Disturbed (ha):	Up to 2,900 ha*;1,900 ha* incremental as part of this application.
Identify Existing Land and Water Use(s), Resource Management, or Conservation Plans Within or Near the Project site:	Traditional, Industrial (oil and gas), Winefred and Grist Lake Regional Integrated Decision.	Post-reclamation Land Use(s):	Traditional, Industrial (oil and gas), Recreation, other.
Decommissioning Start and End (YYYY-YYYY):	Approximately 2041-2044* (one year following shut-down)	Reclamation Start and End (YYYY - YYYY):	Christina Lake is just in the early stages of development consequently reclamation is far off. Estimated Reclamation (2020 – 2045+*)

Unique Environmental or Social Considerations (Describe or None):	Yes, Trappers and First Nations Traditional Land Use	Historic Resources Impact Assessment Required (Y/N/Unknown):	Yes, a Historic Resources overview will be completed for the Project.
Estimated Construction Person-Years of Employment:	1,500 - 2,000* Person Years (est. Ph H)	Estimated Operation Persons-Years of Employment:	~50-100* person years per year for sustaining wells and project operation for Phase H for 25+ years
Construction or Operation Camp Required (Y/N/Unknown. If yes, on-site or off-site):	The same on site construction camps that will be utilized to build previously approved phases at CLTP will be used for Phase H. There are existing 3 rd party camps in the area which may be used for overflow as required.	Method of Transport of Employees to Site (Construction and Operation):	Construction workers will likely commute to/from local municipalities such as Lac La Biche and Fort McMurray via their own personal vehicles. Currently the vast majority of Operations workers (Conklin, Lac La Biche, Janvier, etc.) stay in on-site camp. Operations staff generally fly in/fly out and local traffic.
Will the project involve the manufacture and storage of explosives (Y/N):	No	Is there any federal authority that is, or may be, providing financial support to the Project (Y/N. If yes, identify the federal authority):	No
Date Stakeholder Engagement Started (Public/Aboriginal):	Q3 2012-	Aboriginal Groups Involved in Stakeholder Engagement:	Cenovus has been directed to consult: <ul style="list-style-type: none"> • Chipewyan Prairie Dene First Nation • Heart Lake First Nation • Beaver Lake Cree Nation • Fort McMurray First Nation
Public Groups involved in Stakeholder Engagement:	To be determined through stakeholder and regulatory consultation.		

* All figures denoted with an asterisk are preliminary estimates and subject to change upon application filing.