

Appendix 10.3 2010 Project Brochure

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Teck Resources Limited and SilverBirch Energy Corporation

Project Information Spring 2010

Who are We?

Teck and SilverBirch Energy are partners in the Frontier and Equinox Oilsands Mine Projects (hereafter the Frontier and Equinox Projects).

Teck Resources Limited (Teck) is a diversified Canadian mining company with its head office based in Vancouver, and its Energy Business Unit based in Calgary, Canada. Teck is a world leader in production of copper, steelmaking coal, and is also a large producer of zinc and other metals. Teck is a 20% partner in the Fort Hills Project, and a 50% partner (with Imperial Oil Resources and ExxonMobil) on Lease 421, 22 and 23. Teck is the operator of the Frontier and Equinox Projects and in partnership with SilverBirch on the leases shown on the map to the right.

SilverBirch Energy Corporation (SilverBirch) is a public Canadian company based in Calgary, Alberta. SilverBirch explores and develops Athabasca oilsands deposits. Teck and SilverBirch jointly own approximately 22 leases in the Athabasca oil sands area, representing approximately 148,057 hectares (365,857 acres). These include six leases northeast of the Fort Hills Project, and several leases on the west side of the Athabasca River. The location of the SilverBirch and Teck oilsands leases are shown on the map to the right.

What are We proposing?

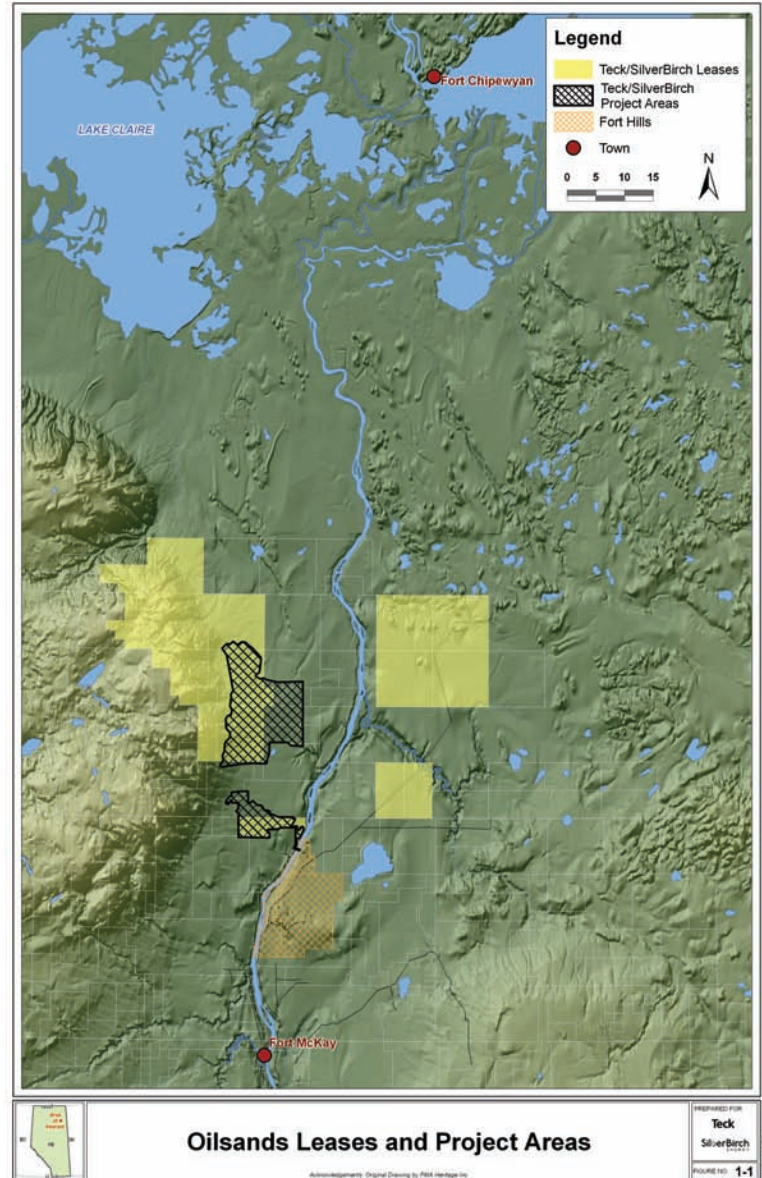
We plan to develop a new oilsands mining project, consisting of two mine areas (referred to as the integrated Frontier and Equinox project) as shown on the enclosed "Frontier and Equinox Oilsands Mine Projects" map.

Frontier Project

The Frontier Project is located on the west side of the Athabasca River approximately 19 kilometres (12 miles) northwest of the Fort Hills Project and is bordered to the south and east by oilsands leases held by Shell Canada Energy (Shell). The proposed Frontier Project is a mining and bitumen extraction and processing facility that will be developed in phases. Initial production from the Frontier Project is expected to be 75-80,000 barrels of bitumen per day (bbls/day). Additional phases are being considered with potential ultimate capacity of 240,000 bbls/day. There currently are no plans to construct an upgrader.

Equinox Project

The Equinox Project is located on the west side of the Athabasca River and northwest of the Fort Hills Project and is bordered to the south and north by oilsands leases associated with Shell's



proposed Pierre River Project. The proposed Equinox Project consists of a mining, bitumen extraction and processing facility. We are currently examining the Equinox Project as a satellite operation to the Frontier Project. In this configuration, only primary extraction would occur at Equinox and bitumen froth would be transported to Frontier for further froth treatment. Equinox has a capacity of approximately 30-50,000 bbls/day, which, if combined with the Frontier Project would bring the total capacity to approximately 290,000 bbls/day.

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Exploration Update

We conducted exploratory drilling in each of the project areas in the winters of 2005/06, 2006/07, 2007/08 and 2009/10. During these four winter drilling seasons, a total of 629 core holes have been drilled which enabled us to determine how much, where, and how deep the oilsands are. The drilling results, to-date, are positive and the process of gathering information (in the form of field assessments) needed for an application to the Alberta Government for approval of the integrated Frontier and Equinox project is well underway. For the 2009/10 season 83 core holes were completed at the Frontier Project area to further delineate the resources as required by the Alberta Energy Resources Conservation Board (ERCB) for mining projects. Installation of groundwater monitoring wells for assessment of groundwater impacts, and an extensive geotechnical program to collect information for mine, tailings and facility location planning has also been completed.



Winter drilling at Frontier

Fort McKay and Fort Chipewyan Winter Drilling Tours

This winter we provided a tour of our winter exploratory drilling activities on the Frontier lease to our Fort McKay Elders Advisory Committee (February 9, 2010) and to members of our Mikisew Cree First Nation and Métis Local 125 Advisory Committees (February 24, 2010). During these tours participants visited our traffic station, the Frontier camp facilities and witnessed our winter drilling program in action.

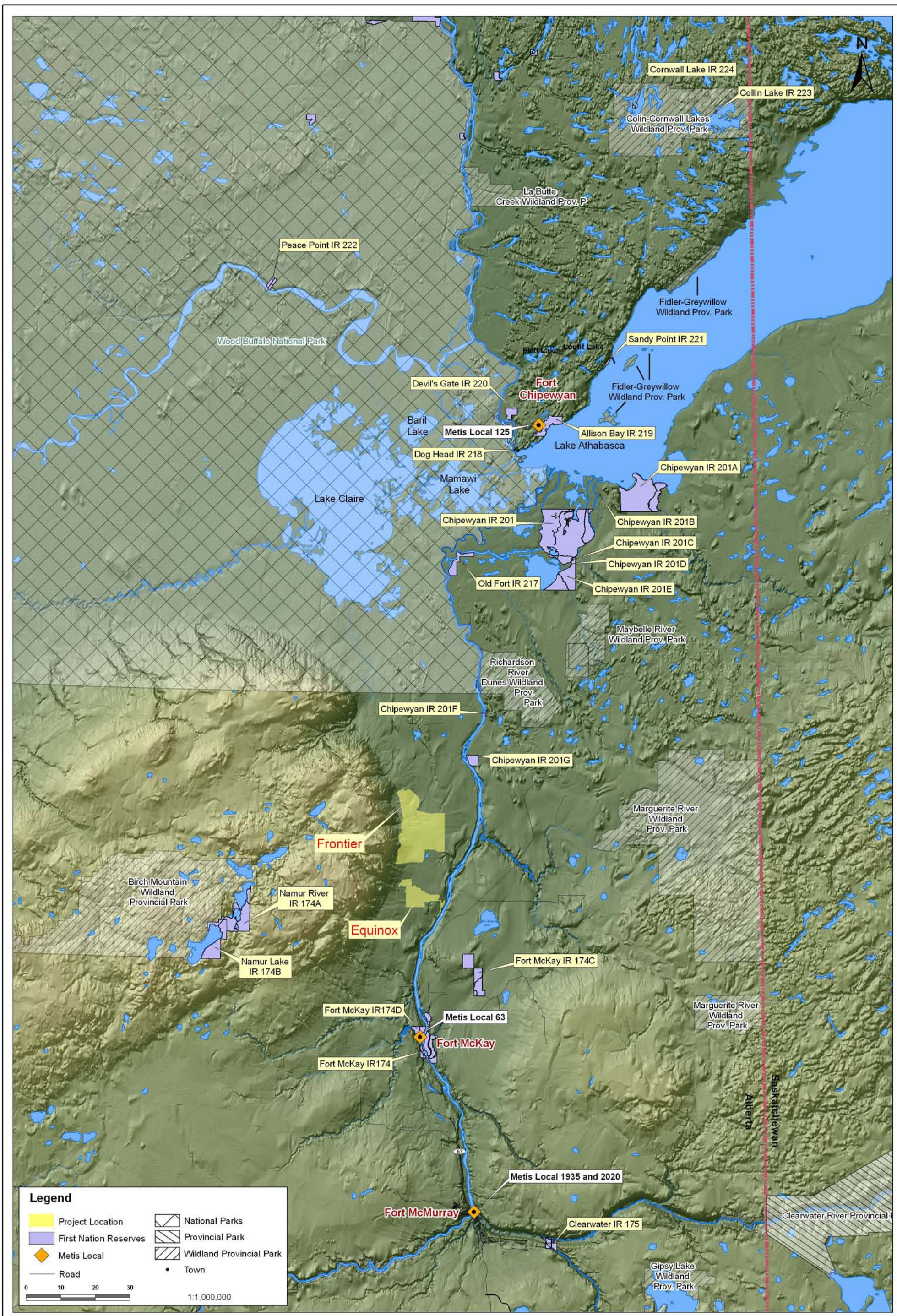


Fort Chipewyan tour participants at the rig

During the tour participants were taken to our traffic station for a safety briefing, an overview of exploration activities within the Frontier leases and what they could expect to see on the tour. Participants then proceeded to the Frontier camp where everyone enjoyed a delicious lunch. After lunch, presentations were given by Ian Perry (Norwest), Shawn Henry (World Wide), and Wade McLean (Norwest) on the local geology, drilling procedures and construction techniques. Following the presentations, participants were taken to a drilling rig in operation, where Shawn Henry and Cornelius Waldner (World Wide) explained the drilling process and tour participants got their hands dirty with newly drilled core, drill bits and other drilling rig parts. All participants had a great time as they learned about oil sands exploration. We are looking forward to future opportunities to provide similar tours.

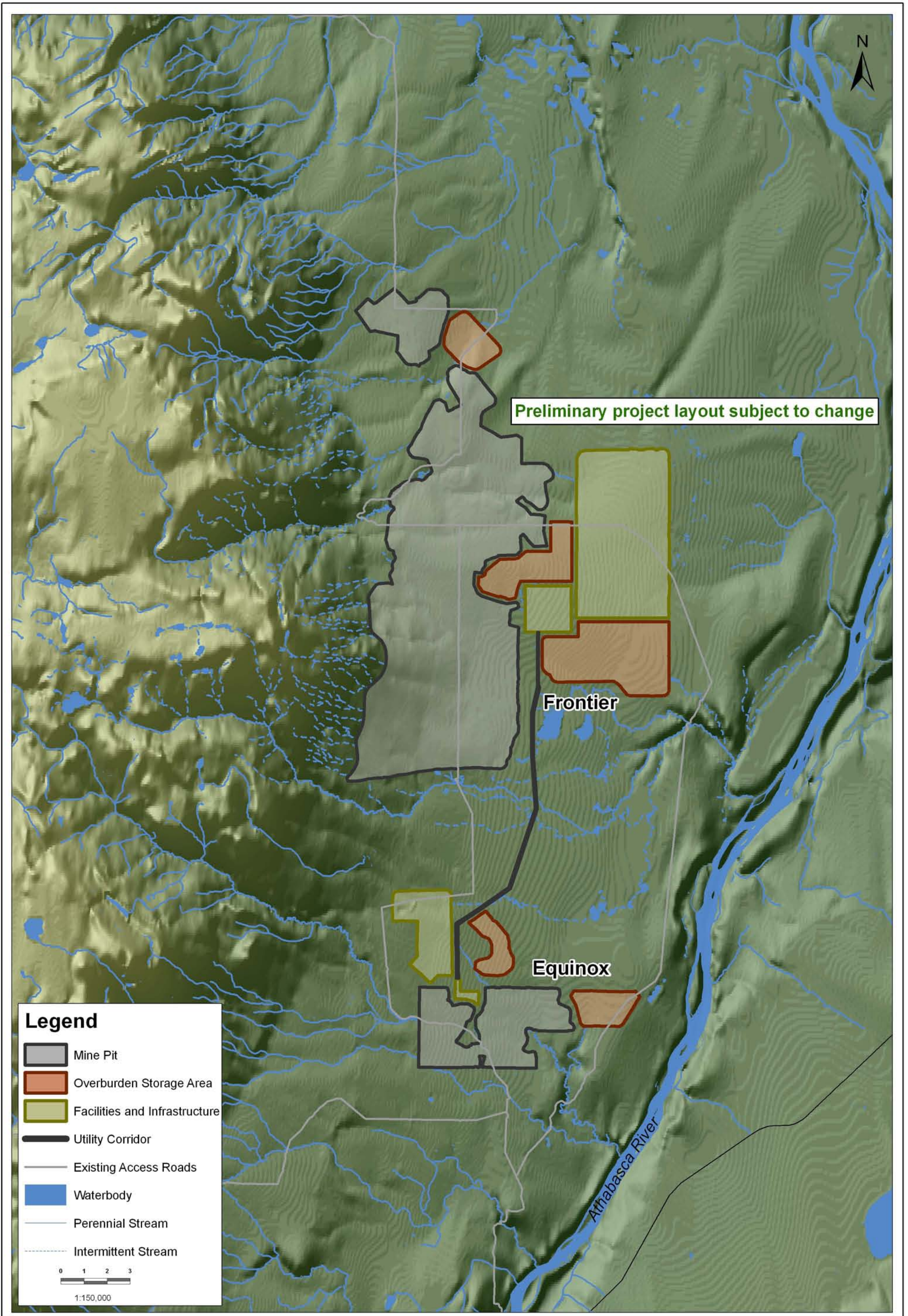


Fort McKay tour participants at the SilverBirch Frontier camp



Frontier and Equinox Project Location Map

Acknowledgements: Original Drawing by FMA Heritage Inc.



Preliminary project layout subject to change

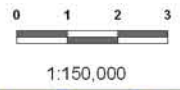
Frontier

Equinox

Athabasca River

Legend

-  Mine Pit
-  Overburden Storage Area
-  Facilities and Infrastructure
-  Utility Corridor
-  Existing Access Roads
-  Waterbody
-  Perennial Stream
-  Intermittent Stream



Frontier and Equinox Oilsands Mine Projects

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FIGURE NO.
1-3

Acknowledgements: Original Drawing by FMA Heritage Inc.

Last Modified: Oct 5, 2010



Environmental Assessment Update

For large scale oilsands mining projects, an Environmental Assessment is required under the Environmental Protection and Enhancement Act (EPEA), administered by Alberta Environment (AENV). For the integrated Frontier and Equinox project, an application will be made jointly to the ERCB and AENV. Baseline environmental field studies are continuing and the Environmental Impact Assessments (EIA) will be prepared for this application.

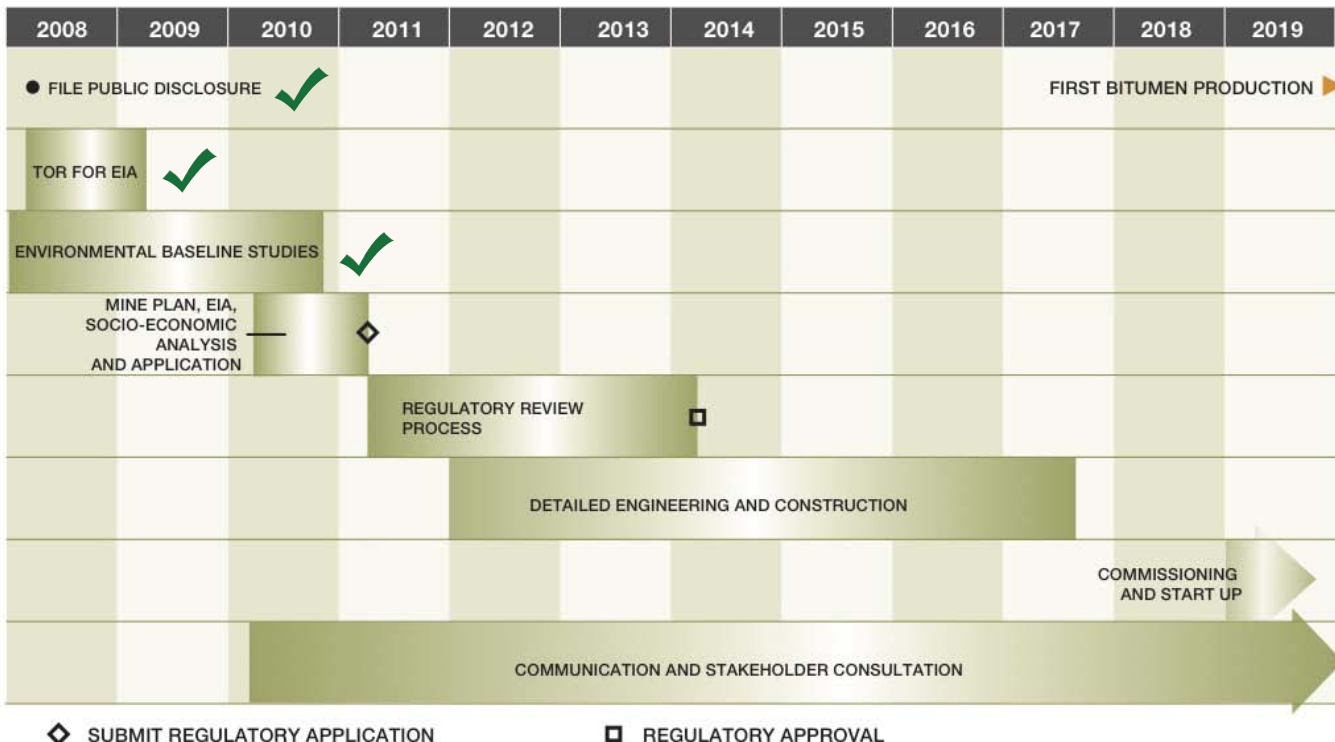


Ivan Whitson and Cam Bateman (SilverBirch) undertaking a soil assessment

A Final Terms of Reference for the EIA was prepared in 2008 with input from local Aboriginal communities and stakeholders. The Terms of Reference establish what will be included in the EIA and how the environmental assessment will be conducted. These studies will examine potential effects to the land, air, noise, surface and groundwater, soils, vegetation, fish, wildlife, historical resources, traditional land use, health and social/cultural impacts and economics. An EIA will be prepared to review all of the predicted environmental effects to land, air, water, aquatic, wildlife and historic resources so that plans can be developed to minimize and mitigate any unacceptable effects.

When Will Frontier and Equinox Begin?

As a result of current market conditions, the planning and approval process for the integrated Frontier and Equinox project has been extended. A revised regulatory schedule for the project has been submitted to the appropriate regulatory authorities (see schedule below). We are currently planning to apply to the Government by mid 2011 with a projected start up in approximately 2019.



Frontier and Equinox Oilsands Mines Regulatory Schedule

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Fort McKay Pilot Plant

The SGS Canada Inc. owned Fort McKay pilot plant was commissioned during May 2009 with piloting proceeding through the summer utilizing ore from the Frontier and Equinox Projects. The program enabled us to observe the processing characteristics of ore from both the Frontier and Equinox Projects. This experience provided valuable technical information that will be incorporated into future engineering studies.

Piloting concluded in August 2009, with all technical milestones achieved. We will now be able to design and operate a high temperature paraffinic froth treatment process. Analysis of the final data set will continue throughout 2010 as plans are developed.

Fort McKay Pilot Plant Tour

On April 22, 2009, Teck and SilverBirch invited ten Fort McKay residents to participate in a tour of their Fort McKay Pilot Plant. Tour participants included members of Fort McKay First Nation and McKay Métis Nation members. Tour participants were met on site by Dan Ashman (Teck), William Boyd (SGS) and Chris Bennett (SGS) who provided the group with an overview of the Pilot Plant including the Bitumen Extraction Pilot Plant and the Froth Treatment Pilot Plant and the role of SGS. The group learned about the extraction process, tailings, and froth treatment and had the opportunity to discuss the process with SGS, SilverBirch and Teck staff.



Chris Bennett explaining bitumen extraction and paraffinic froth treatment to tour participants

"This was the first time our Elders have been given a walking tour; companies usually just take us by bus and drive us around without letting us walk around. The explanations, especially at the froth plant were really good! We are very concerned about safety, but have never had a safety orientation for any tours we've been on. SilverBirch and Teck gave us safety vests and hard hats. I really enjoyed it!" (Margie Wood, McKay Métis Nation)



Tour participants at orientation and safety briefing

Economic Opportunities and Social Benefits

We believe that the development and operations of the project will contribute financial benefits to Alberta, the Regional Municipality of Wood Buffalo and surrounding Aboriginal communities. Business opportunities will be presented to Aboriginal communities in a variety of ways. Contracts may be advertised on our websites, at open houses, through public tender notice, working with Chambers of Commerce or contracting programs/associations, advertisements, referrals, or through unsolicited applications. Specific contracting policies and procedures for the project will take into consideration competition and fair and equal treatment of the local business community. We anticipate that the project will require a construction workforce of approximately 2,000–4,000 people and an operations workforce of 1,300–1,500 people.

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Frontier and Equinox Integrated Mine Planning

Preliminary mine planning has been completed for both the Frontier and Equinox mines, including preliminary locations for the extraction plants and out-of-pit disposal areas. Both mines would be a truck/shovel operation where overburden would be removed and oilsands ore would be delivered to an ore preparation facility. The ore would be conditioned and delivered to the extraction plant in a slurry pipeline for separation of bitumen from the sand and clay. Mine planning to-date indicates that there are in the order of 2.55 billion and 380 million barrels of bitumen that are potentially recoverable at Frontier and Equinox (respectively) with mining. The integrated Frontier and Equinox project will be developed to initially produce 75-80,000 bbls/day, ramping up to approximately 290,000 bbls/day. The integrated project will operate for approximately 35 years.

The size of the Equinox Project lends itself well to development as a satellite to the Frontier Project (which will reduce footprint and localized impact). As a result, we have recently focused on understanding how the Equinox Project could be developed as a satellite bitumen froth production operation to the larger Frontier Project or a neighboring project. In December of 2009 a Frontier and Equinox integration study was completed. The study determined that only mining and extraction activities would be carried out at Equinox; bitumen froth would be transported to Frontier, where it would be treated. The camp, tank farm, water storage and other facilities would be located at Frontier. The Equinox mine will provide an additional 380 million barrels of recoverable bitumen to the integrated Frontier and Equinox project. The integrated facilities would utilize a high temperature paraffinic froth treatment process to produce a clean marketable bitumen. We have recently commenced pre-feasibility



engineering work on an integrated Frontier and Equinox project, which is expected to be completed in the fall of 2010.

Integrated Frontier and Equinox Project Components and Activities

The integrated Frontier and Equinox project will be supported by a product terminal, a water intake structure on the Athabasca River, a mine access road, local pipelines, and transmission lines for grid power. Shell has proposed a bridge over the Athabasca River for the Pierre River Project which we believe will be constructed to support the development on the west side of the Athabasca River including other oilsands projects in the area.

It is anticipated that temporary camp facilities to house approximately 2,000–4,000 workers during construction will be required to support this project. A permanent employees' village capable of accommodating approximately 1,500 workers will be required to support operations. A local airstrip is also being evaluated to support the fly-in, fly-out workforce.

Water Use

Water for use in the bitumen extraction process for both the integrated Frontier and Equinox project will be obtained from the Athabasca River and surface water runoff from the lease area. Water withdrawals will be in accordance with AENV and Department of Fisheries and Oceans Canada (DFO) Athabasca River Management Framework. In addition, a water storage supply is anticipated to ensure a reliable and flexible water source during winter low-flow periods. Water will be recycled from the tailings area to reduce the amount of make-up water withdrawal. Plant tailings will be partially de-watered and pumped into the tailings area.

Tailings

An out-of-pit tailings area will be required to store the sand and clay that is removed in the extraction and froth treatment processes during the initial phases of the project, prior to space being available within the mined-out area. All tailings will be managed according to ERCB Directive 074. A number of tailings management alternatives are being evaluated. The option that is most economically and technically feasible, and that meets environmental expectations and regulatory requirements will be developed during the design stage and presented in a project application for approval to the ERCB and AENV. Options might include production and management of thickened tailings, use of thin lift drying or other treatment such as centrifuges.

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Public Consultation & Regulatory Engagement

Public consultation activities and regulatory engagement are well underway. We have developed a comprehensive public stakeholder consultation list, providing annual project updates to stakeholders such as Federal, Provincial and Municipal departments and agencies, community organizations, regional resource development companies, local trappers, environmental organizations as well as health authorities and organizations. In addition to our extensive public consultation program, we meet regularly and work closely with regulatory authorities such as AENV, ERCB, DFO, the Canadian Environmental Assessment Agency, Transport Canada and the Major Projects Management Office.



Palaeontology and Archaeology booth - Fort McKay Open House

Aboriginal Consultation

We are committed to meaningful consultation with potentially affected Aboriginal communities in the area. We are aware of the many traditional land use, socio-economic and environmental concerns related to the development of the oilsands area and are committed to understanding community issues as part of the consultation process. Consultation for the project is well underway. Open houses have been held in the communities of Fort McKay and Fort Chipewyan. In addition, Fort McKay First Nation, Mikisew Cree First Nation and Métis Local 125 community advisory committees have been created to facilitate



Fort Chipewyan Open House, November 2009

the relationship building and consultation process. We are working closely with these committees to gain a better understanding of the communities of Fort McKay and Fort Chipewyan as well as any potential adverse impacts and issues and concerns relative to the project. In addition, regular meetings are held with designated community representatives (e.g., Industry Relations Corporation Directors and Métis Local Presidents). Development plans and strategies will be identified in consultation with Aboriginal communities so as to mitigate any direct and adverse impacts, where feasible.

Community Initiatives

Consultation with Aboriginal communities in the Athabasca oilsands region have provided us the opportunity to learn more about the communities and identify ways in which we can work together. Last winter we identified the opportunity to provide firewood salvaged from the Frontier Project area for use in home heating in Fort Chipewyan as well as ways in which to help make travelling on the winter road safer for the community. This year we have continued to work with local communities to identify further opportunities to work together. We are proud to have been able to continue two programs (Firewood Program and Winter Road Safety Program) as well as initiate additional programs (such as the Book Drive and the Rock Doc & Ms Pebbles presentations) that bring value to the region's communities.

Contact Information

For further information on
the regulatory process or
Frontier & Equinox Oilsands Mine Project
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