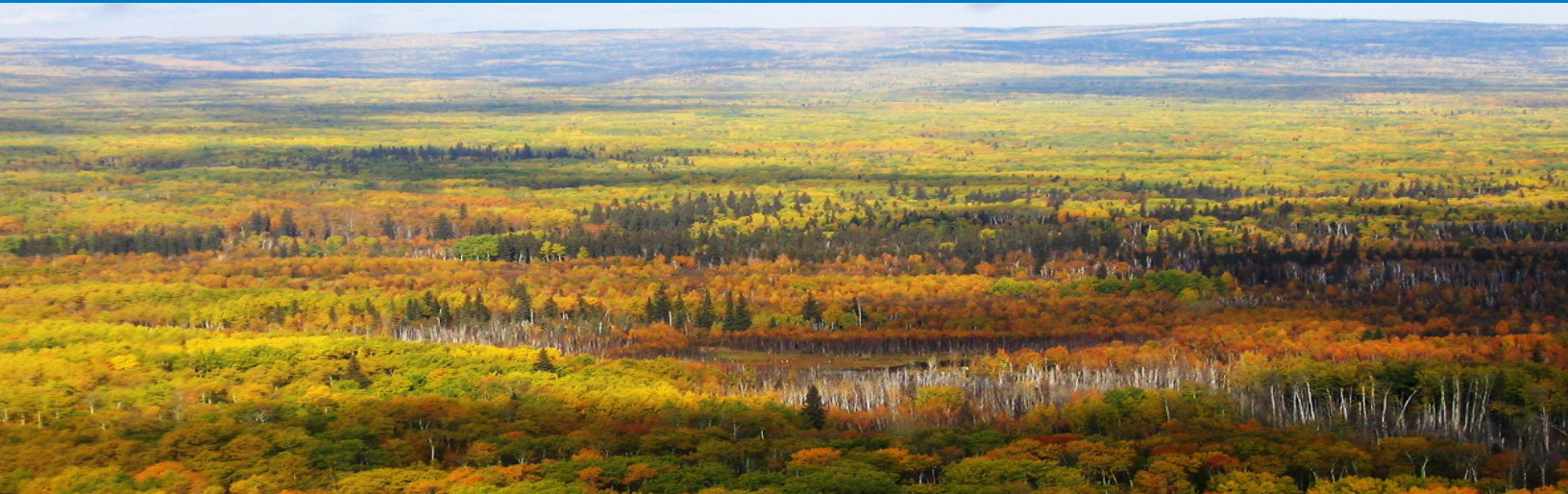


# Frontier Forward

## First Edition

December 2012



Welcome to the first edition of *Frontier Forward*, a newsletter designed to keep you up-to-date on the latest news and developments about Teck's energy business, including our Frontier oil sands project.

All editions of Frontier Forward are available online at [www.teck.com/frontier](http://www.teck.com/frontier)

### About Teck

We are Canada's largest diversified resource company, committed to responsible mining and mineral development with major business units focused on copper, steelmaking coal, zinc and energy. Our head office is in Vancouver, British Columbia, and our energy business unit is based in Calgary, Alberta.

### Our Energy Business

Our energy business includes a 20% interest in the Fort Hills oil sands project and 100% ownership of the Frontier oil sands project. Both of these properties are located in the Athabasca oil sands region of Alberta, Canada. We also have a 30% interest in the Wintering Hills Wind Power Facility near Drumheller, Alberta.

Our oil sands assets will be mined using conventional technologies that build upon our core skills of large-scale truck and shovel operations. In moving forward with our oil sands properties, we are also researching methods to build on the progress of the industry in improving technology and production processes, reducing water consumption, improving tailings management, and increasing land reclamation and revegetation.

### About the Frontier Project

The Frontier project is a proposed truck-and-shovel mine located 110 kilometres north of Fort McMurray (approximately 60 kilometres north of Fort McKay; 165 kilometres south of Fort Chipewyan) on the west side of the Athabasca River, in the Regional Municipality of Wood Buffalo (RMWB).

Teck owns 100% of the project and is the operator.

# Teck

**The Frontier project will be developed in four phases:**

Phase 1-3: The Main Development Area mine (MDA) will be built in three phases, and will contribute 2.45 billion barrels over a 34-year period.

Phase 4: The South Development Area mine (SDA) will be the fourth phase and will contribute 0.38 billion barrels over a 28-year period.

In total, the project is expected to produce 2.8 billion barrels of bitumen over its 37 year life from 2021 to 2058.

The Frontier project will make use of best practices for sustainable and responsible development, including technology for faster treatment of tailings, installation of barrier walls to ensure no seepage into the watershed, off-stream water storage capacity, allowing water withdrawal from the Athabasca River to be stopped during low-flow periods, and a plan for full reclamation of the project site once operations have concluded.

**Regulatory Update**

On November 25, 2011, we submitted an Integrated Application for approval of the Frontier project to the Energy Resources Conservation Board (ERCB), the Ministry of Environment and Sustainable Resource Development (ESRD), and the Canadian Environmental Assessment Agency (CEAA).

We also submitted a comprehensive Environmental Impact Assessment (EIA) detailing the steps that will be taken to ensure the project proceeds in an environmentally and socially sustainable manner. A Terms of Reference for the Environmental Impact



Assessment was prepared in 2008 with input from local Aboriginal communities. The Terms of Reference established what was included in the EIA and how the assessment was conducted. These studies examined the potential effects of our project on the land, air, noise, surface and groundwater, soils, vegetation, fish, wildlife, historical resources, traditional land use, health and social/cultural impacts, and economics. We are committed to developing the Frontier project in a sustainable manner and these studies will ensure future plans incorporate measures to minimize and mitigate any potential negative effects.

**Regulatory Process**



**Frontier Project Drilling and Exploration Update**

We have been conducting exploratory drilling in the project area since 2005. A total of 680 core holes have been drilled, enabling us to determine how much, where, and how deep the oil sands deposits are. The drilling results formed the basis for the Frontier Project Integrated Application, filed on November 25, 2011 with the Canadian and Alberta Governments. Installation of groundwater monitoring wells for the assessment of groundwater quality, and an extensive geotechnical program to collect information for mine, tailings, and facility location planning were also completed.



A winter drilling rig on our Frontier project leases

Upcoming exploratory drilling for the winter of 2012/13 is planned, and a total of 184 core samples and 366 geotechnical holes will be drilled to further understand the extent of the oil sands deposits, to assess the geotechnical properties of the land where our facilities will be located, and to collect additional baseline data on area soil and groundwater quality to assist in environmental mitigation measures for the project.

**Proposed Feedback Mechanism**

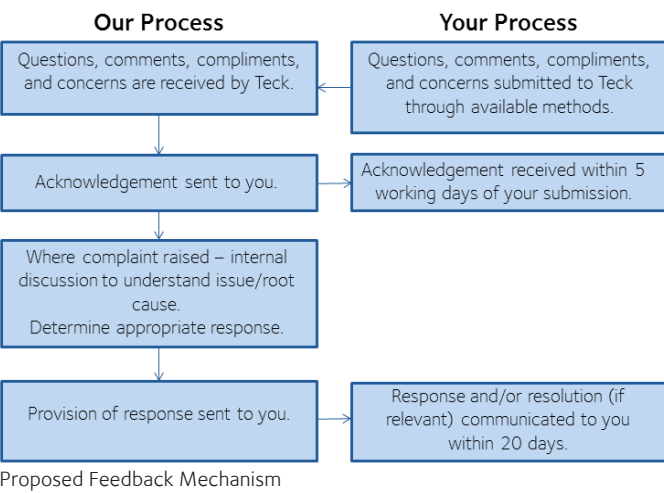
To maintain open lines of communication between communities and the Frontier project, we are working to establish a feedback mechanism to assist us in receiving and effectively responding to input. This process will allow us to respond to input and concerns that arise by providing communities with alternate ways of communicating with us and receiving a response within an appropriate amount of time.

The process will also allow us to develop appropriate channels, contacts, and timeframes that best suit the project and community.

Before we can begin to implement this feedback mechanism, we first need to understand what works best for community members.

**We want to hear from you:**

- What communication methods do you prefer? (i.e., phone, in person, newsletter, email)
- What is the most convenient way for you to contact us?
- What do you consider an appropriate amount of time for acknowledgement and response?
- What other methods do you use to address concerns in the community?



**Please provide your feedback to:**

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Teck  
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## Community Relations: Barb Hermansen Trapline Story

On February 18, 2012 we were proud to support Métis Local #125 Elder Barb Hermansen in the release of her autobiography *"Barb Hermansen: Her Story. The Last Woman to Raise Children on the Athabasca River."*

We approached Barb about documenting her family's life on their trapline, located on the west side of the Athabasca River. Sherri Labour, a Traditional Knowledge facilitator, worked with Barb on the research and writing of the book. Teck proudly provided financial support for the project.

Copies of the book highlighting Barb's legacy as a trapper, mother, and wife on the west side of the Athabasca River are now available at the Métis Local #125 offices in Fort Chipewyan.

We would like to thank Barb for her friendship and hard work on this project, and the Métis Local #125 for their support.

## Our Energy Community Relations Team

### Ian Mackenzie, Director, External Affairs

Ian Mackenzie leads the Community Relations, Environment, and Regulatory teams for the Frontier project. He has been working on the Frontier project for two years, and prior to joining Teck, was principal of a leading environmental consultancy. Ian brings a wealth of oil sands experience in environmental assessment work and regulatory affairs to the project, and one of his many passions is the protection of water resources. Ian's passion for water also extends into his personal life – one of his many hobbies is sailing.

### Janais Turuk, Supervisor, Community Relations

Janais Turuk has been with the Frontier project for approximately five years. Janais has a passion for working with communities, bringing with her a background in community engagement and archaeology. She has worked both for developers and directly for communities, providing her with experience in identifying and nurturing the opportunities that can arise from positive industry-community relationships. Janais looks forward to moving the Frontier project ahead in a manner that brings long-term benefit and opportunity to communities. In her personal time, Janais enjoys spending time with family, volunteering, and is working on her private pilot's license.



Janais, Ian and Cole

### Cole Thomson, Community Relations Coordinator

Cole Thomson joined Teck in May 2012 and brings a wealth of community and Aboriginal relations experience from his previous work in government. Cole grew up in Fort McMurray and has a passion for understanding the issues surrounding the oil sands and the collaborative processes that will help the industry continually improve. Cole works on initiatives to support corporate sustainability, is the community investment lead for the Frontier team, and also supports regulatory consultation. Cole is an avid baker and enjoys gardening.

**For more information regarding the Frontier project or Teck's energy business unit, please contact:**

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