

# Frontier Forward

## Third Edition

November 2014



Welcome to the third issue of Frontier Forward, a newsletter designed to keep you informed on the latest news and developments about Teck's Frontier oil sands project and our energy business unit. Issues of Frontier Forward are available online at [www.teck.com](http://www.teck.com).

### About the Frontier Oil Sands Project

The Frontier oil sands project is a proposed truck-and-shovel mine located 110 kilometres north of Fort McMurray and 110 kilometres south of Fort Chipewyan, in the Regional Municipality of Wood Buffalo (RMWB).

The project application was submitted to regulators in November 2011 and is moving through a joint federal/provincial regulatory review, which is expected to culminate in a joint federal/provincial public hearing in late 2015 at the earliest.

Within this regulatory review, we recently announced our intent to submit a Frontier Project Update in June 2015. The proposed changes will include a revised tailings management strategy, as well as an optimized mine plan that incorporates resources acquired as a result of our

2013 lease exchange with Shell. These changes take advantage of advances in engineering and technology that have been made since our initial application was filed to support the project's long-term economic and environmental sustainability. We have also incorporated key environmental management learnings from our participation as a founding member in COSIA, Canada's Oil Sands Innovation Alliance. The footprint for the Frontier Project will remain largely the same with a similar layout and production rate. As a result of the optimized mine plan, the recoverable resource for Frontier increases to 3 billion barrels of bitumen, with a smaller disturbance area than what was presented in the 2011 application.

The Frontier Project will make use of best practices for sustainable and responsible development, including the latest technology for tailings treatment, seepage control, off-stream water storage capacity allowing water withdrawal from the Athabasca River to be stopped during low-flow periods, and a plan for progressive and full reclamation of the project site. For more information on the project, visit [www.teck.com/frontier](http://www.teck.com/frontier).



## Quick Facts

### What:

- Open pit, truck and shovel oil sands mine
- No upgrader on site, meaning less greenhouse gas emissions

### Where:

- 110 kilometres north of Fort McMurray, 110 kilometres south of Fort Chipewyan
- 25 kilometres south of Wood Buffalo National Park
- West side of the Athabasca River

### When:

- First oil in 2026
- Production continues until 2066, followed by a closure period of between 10 to 15 years

### Total disturbance area over life of mine:

- Approximately 29,000 hectares

### Product:

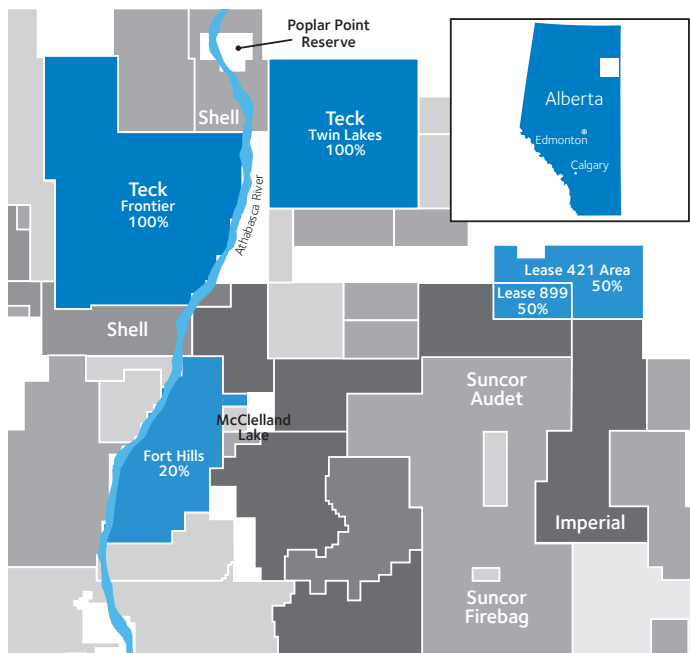
- Pipeline-ready, partially deasphalted bitumen

### Production:

- 260,000 barrels per day of bitumen
- Potential to debottleneck to 277,000 barrels per day of bitumen



Aerial photo of the Frontier Winter Drilling Camp



## Winter Drilling Program Update

We have been undertaking winter drilling on the Frontier leases since 2006. Our exploration programs are designed to collect information for the purposes of designing a safe, environmentally sustainable, and economic mine. Our next exploration program at Frontier is planned for the winter of 2015/2016, which provides time to undertake meaningful engagement with Aboriginal communities.



## Meet Ray Proulx

### Senior Community Relations Advisor

Ray Proulx joined Teck in 2010 as the Community Liaison for our Quintette steelmaking coal project near Tumbler Ridge, B.C. Throughout the past four years he has been instrumental in establishing strong relationships between Teck and the regional Treaty 8 Nations, collaborating to address issues that arose during Quintette's regulatory review and helping to successfully conclude two formal benefit agreements. Ray has also been recognized for his role in a variety of innovative projects including the Peace Northern Caribou Committee and their maternal penning program, as well as the West Moberly First Nations' Storyscapes Cultural Preservation Project.

Earlier this fall, Ray joined Teck's energy business unit as a Senior Community Relations Advisor. Ray is based in Tumbler Ridge with his family and will be commuting to Calgary and the oil sands region for his work with us. He will focus on community engagement, maintaining a regular presence in Fort McMurray, Fort McKay and Fort Chipewyan, and providing community members and representatives access to Teck. Ray will also be looking for opportunities to support community projects and identify community investment opportunities. His work is in addition to Teck's regular engagement and consultation activities.

Ray looks forward to meeting community members and representatives at various events throughout the coming months.

## Questions and Answers with...

### Patricia Hughes, Senior Community Relations Advisor

**Frontier Forward (FF):** Hi Patricia. What is your role at Teck, and when did you join?

**Patricia Hughes (PH):** I am a Senior Community Relations Advisor in the energy business unit at Teck. I joined the company on May 5, 2014.

**FF:** Why did you choose Teck?

**PH:** I was really interested in working with the Aboriginal communities north of Fort McMurray and gaining more experience in the oil sands. I had heard good things about Teck's sustainability policies and performance, and I was interested in working for a company with international operations.

**FF:** What is your favourite part of your job?

**PH:** Working with Aboriginal communities.

**FF:** What is your most memorable moment to date working at Teck?

**PH:** So far, it has been the opportunity to visit Fort Chipewyan.

**FF:** What do you like to do in your spare time?

**PH:** Sleep! (I have 3 ½ year old twins.)



## 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. We also have a 30% interest in the Wintering Hills wind power facility near Drumheller, Alberta.

### About Teck

We are Canada's largest diversified resource company, focused on providing products—copper, steelmaking coal, zinc, and energy—that are critical to building a better quality of life for people around the world. Our head office is in Vancouver, British Columbia, and our energy business unit is based in Calgary, Alberta.

In 2014 we were named to the Dow Jones Sustainability World Index (“DJSI”) for the fifth straight year, confirming that our sustainability practices rank in the top 10% of the world's 2,500 largest public companies. In January 2014, we were named for the second year in a row to the Global 100 most sustainable corporations list.

We are a proud founding member of Canada's Oil Sands Innovation Alliance (COSIA); an alliance of oil sands producers focused on accelerating the pace of environmental performance in the oil sands in four Environmental Priority Areas—tailings, water, land, and greenhouse gases.



Our Wintering Hills Wind Power Facility near Drumheller, AB

## Contact Us—We Look Forward to Hearing From You

As we prepare for the Frontier project, we continue to build relationships with communities in the region. We believe it is important that community members are engaged throughout the process about the issues that are important to them. That is why we have put in place feedback mechanisms to ensure you can reach us with any concerns or questions. You can reach us in any one of the following ways:



1.855.222.4154 (Toll Free)



1.403.837.1518



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