

FRONTIER LITHIUM

NEWS from the Junction

Preserving the Environment: Finalizing the Baseline

Frontier Lithium has been monitoring and studying the state of the environment surrounding the project before any activity or development proceeds. This collection of data is called establishing an environmental baseline. It helps us to minimize any impacts of a potential future mine.

Baseline studies began in 2015 and were expanded in 2022 to focus on the broader area. Environmental baseline includes the study of:

- Surface water – Lakes, rivers, creeks
- Ground water – Water flows underground
- Fish – Fish, fish tissue, fish habitat, aquatic plants
- Terrestrial – Animals, species at risk (caribou, wolverine, bats), forests and plants
- Air – Weather station

All environmental baseline studies will be completed, and preliminary reports will be available by the end of 2024.

“These studies contribute to Frontier’s understanding of the current environment in and around the site, including downstream of the project, in order to minimize impacts that might happen during development, operation and closure of the mine” explained Clara Lauziere, Director of Sustainability. “Monitoring will continue throughout all phases of the mine to help detect and resolve changes that might happen as we progress.”

Baseline studies are also used to influence the design of how water is managed on the entire project site to reduce risk and any potential for negative environmental impacts.

Archaeology Stage 1 mapping study was completed this year and was followed up by a Stage 2 investigation at the end of August. Community members participated in the field work. The top right photo shows sampling as part of baseline studies and the bottom middle photo shows the archeological dig to find out if any historic artifacts were present – none were found.



Next up.... Traditional Land Use Studies!

Traditional Knowledge and Land Use Studies led by communities can be supported and funded by Frontier Lithium.

The intent is for communities to build their databases and mapping records to help the community protect historic and culturally significant information and locations.

Traditional Knowledge may be confidential, so communities are able to control the information they can share.

If there is information or culturally significant locations that Frontier needs to avoid and protect, we can influence the engineering and design of the project, and properly plan around it.

Continuing discussions with Communities – Keewaywin and North Spirit Lake First Nations

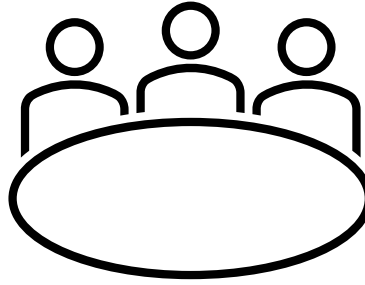
Frontier Lithium (FL) staff continue to meet with communities to provide more information about the project and answer questions from leadership and members of the community. In July, Frontier met with Keewaywin First Nation (KWW) and then with North Spirit Lake First Nation (NSLFN) in September. FL was pleased to host Deer Lake First Nation (DLFN) community members to the PAK Project site in September for a site tour, information share on archaeology, and to gather berries and Labrador Tea. FL is committed to listening and understanding the concerns of community members and to find ways to mitigate those concerns.

Keewaywin Leadership Meeting and Open House

FL was welcomed by leadership of KWW to visit the community and to share information on the PAK Project. Being our first official Open House, the intention was to begin relationship building.

The day began with a Council meeting, where leadership made it clear that the community had concerns and would need to fully understand the project before moving forward.

Following the Council meeting, an announcement was made on the community radio inviting community members to attend the Open House at the Youth Hall. Participants attended and listened to Frontier's presentation and then asked questions about the PAK Project.



North Spirit Lake First Nation Leadership Meeting

This was FL's first opportunity to meet with the new Chief of NSLFN, Councilors as well as land users on trapline 121 from the community. FL staff walked through a presentation, explaining the status of the project timelines and project layout.

Water and the potential effects of the PAK Project and questions regarding how the mine will be closed out and the application for a land use permit to operate the Knox Camp were important topics during this meeting.

Frontier's team is excited to engage with the broader community in the very near future.



Deer Lake First Nation members visit PAK site



In September, five community members from Deer Lake First Nation visited the PAK site. They spent the afternoon learning about the archeology program, as well as visited the Spark and PAK deposits and viewed the surrounding areas from the helicopter. The day was closed out with picking blueberries and then treating the Frontier team to homemade Bannock.

Canada's Critical Minerals Infrastructure Fund (CMIF) to provide Infrastructure planning support for the PAK Lithium Project

The funding will include support for First Nation communities to participate in engagement on an all-season road from the edge of the Whitefeather to the PAK Lithium Project. The funding comes from the Critical Minerals Infrastructure Fund, a federal program supporting clean energy and transportation projects in Canada's critical minerals industry.

Natural Resources Canada has conditionally approved two investments for a total of up to \$6.1 million for Frontier's PAK Lithium Project in Northwestern Ontario.

One project is the pre-construction activities, including environmental studies, for an all-season, 56-kilometer, two-lane all seasons access road that would link the PAK Lithium Project by the junction to the proposed Branchwood Road at the edge of the Whitefeather Forest.

The project is largely focused on communities, and ensuring communities are fully able to participate in decision making around this portion of the proposed all-season road. Over the coming 18 months, Frontier anticipates working closely with Communities and understanding the concerns which may be raised about the road.

At the end of the project, Frontier hopes to see the 56 km access road completely engineered, designed and permitted in a way that is supported by Communities.

The second project will conduct engineering, design and permitting studies for a substation and transmission line to enable grid connection from the PAK Lithium Project to the Wataynikaneyap (Watay) Power transmission line.

As both infrastructure projects advance, Frontier Lithium is committed to continued engagement and consultation with Indigenous communities.



Trevor expressed his excitement about the award: “We are thrilled to receive this funding for the advancement of an all-season road and electricity infrastructure in the region of our PAK Lithium Project. As we move forward on our path to building the first fully integrated lithium mining-and-processing operation in Ontario, we know our objectives align with that of the Critical Mineral Infrastructure fund – to address infrastructure gaps, reduce emissions, and advance reconciliation with Indigenous Peoples.”

Clara Lauziere, Frontier's Director of Sustainability, said the funding will enable Indigenous communities to better participate in the decision to build a road and where that potential road may go.

“This Government of Canada support reflects the importance of Indigenous engagement and collaboration in developing infrastructure” she said. “It also recognizes the role these infrastructure projects will play in supporting Frontier's vision to become a significant supplier to the growing Electric Vehicle (EV) markets.”

? Answering Community Questions

Question: How do mining leases and claims work? (FYI this is called mineral tenure)

In Ontario, mineral tenure refers to the legal rights granted to individuals or companies to explore for, develop, and mine mineral resources on Crown land. However, holding mining tenure does not grant ownership of the land itself—just the right to explore or extract minerals. A **mining claim** gives the claim

holder the exclusive right to explore and potentially develop mineral resources within the claim boundaries. It does **not** give ownership of the surface land, only the right to explore for minerals beneath the surface. A **mining lease** provides exclusive rights to the minerals but still does not mean ownership of the land itself. Even when a mining lease is granted, mining cannot occur without receiving many other permits. Frontier has a mixture of claims and leases on the PAK property site.

FRONTIER IN YOUR COMMUNITY

Key people to know!

Alex Croft, Chief Geologist

Alex Croft has been the Chief Geologist for Frontier Lithium for the past three years and a geologist for 15 years. He spends much of his time walking the land and exploring for new and exciting rock discoveries.



Born and raised in the

Northwest Territories, he now lives in Sudbury where he enjoys the outdoors, camping with the family, hunting, fishing, snowmobiling, quadding. He also enjoys playing and coaching hockey and proclaims the Habs are the best team of all time.

Graeme Goodall, VP Operations

Graeme Goodall is the Vice President of Operations for Frontier Lithium. His day-to-day work at the company revolves around managing the engineering studies that are designing the mine and mill development, along with ensuring Knox camp is a safe and functional site.



In Graeme's professional career, he has operated, and help fix, many metallurgical plants throughout the world; his personal objective is to make the PAK Lithium Project better than any other—he has young children and wants to make sure the decisions Frontier makes on this project benefits future generations.

Do you have a family member attending college or university?

They might be eligible to receive \$5000 through Frontier's scholarship program!!

The next application deadline is fast approaching for the Next Generation Education Bursary on November 1—but don't worry if you miss this deadline because the next one is February 1, 2025. All the information you need to apply is on the poster to the right. Please visit this link to apply: <https://indspirefunding.ca/frontier-lithium>

Frontier is committed to long-lasting relationships with First Nations communities and to providing social, cultural, and economic benefits as it advances the PAK Lithium Project. Frontier recognizes the importance of continued education and wishes to support the next generation of First Nations leaders. A total of \$35,000 in bursaries will be available each year. \$5,000 bursaries will be awarded annually to a member of each of the seven communities listed.

A promotional poster for the Next Generation Education Bursary. The top half features a young man and woman smiling, both wearing black t-shirts with the 'Indspire' logo. The text 'NEXT GENERATION EDUCATION BURSARY' is prominently displayed in large white letters. Below this, a smaller line of text reads: 'Frontier Lithium recognizes the importance of continued education and wishes to support the next generation of First Nations leaders!'. The bottom half of the poster is divided into two sections: 'ABOUT THE BURSARY' and 'APPLICATION PROCESS'. The 'ABOUT THE BURSARY' section includes details about the collaboration with Indspire's Building Brighter Futures program and the \$5,000 annual bursary award. The 'APPLICATION PROCESS' section includes a QR code and the application link.

ABOUT THE BURSARY

Frontier Lithium is collaborating with Indspire's Building Brighter Futures program to hand out its awards.

Frontier Lithium will award a \$5,000 annual bursary to a student from each of the seven communities listed below who are attending post-secondary institutions, colleges and universities, in Canada. The bursaries can also be applied to apprenticeships!

ELIGIBLE APPLICANTS

Those applying must be a member of one of the following First Nations communities:

- ✓ North Spirit Lake First Nation
- ✓ Deer Lake First Nation
- ✓ Sandy Lake First Nation
- ✓ Keewaywin First Nation
- ✓ Pikangikum First Nation
- ✓ Poplar Hill First Nation
- ✓ McDowell Lake First Nation

APPLICATION PROCESS

To apply for the Next Generation Education Bursary, please scan or visit the link below. **Application deadlines are November 1, February 1, August 1 of each year.**



<https://indspirefunding.ca/frontier-lithium>