

Number/Numero:

PR-21-000303

This permit is issued under the authority of section 78.3 of the *Mining Act* and the Exploration Plans and Exploration Permits Regulation (O. Reg. 308/12). It is subject to the provisions of the Act and regulation as well as the terms and conditions included in this permit.

Ce permis est émis conformément aux dispositions de section 78.3 de la *Loi sur les mines* et des règlements et est sujet aux restrictions et dispositions de ce lois et règlements ainsi qu'aux conditions ci-énoncées.

Note: The issuance of this permit does not relieve the applicant from the responsibility of acquiring any other agency, board, government, etc. approval as may be required nor does it relieve the permittee from the requirements of any other legislation or guarantee access to the land.

Remarque : La délivrance de ce permis n'exempte pas le demandeur de l'obligation d'obtenir l'autorisation de tout autre organisme, commission, gouvernement, etc. qui pourrait être exigée, n'exempte pas le titulaire des dispositions de toute autre loi et ne garantit pas l'accès à la terre.

Project Details/ Détails sur le projet

Project Name/ Titre du projet

PAK Bulk Sample

Qualified Supervisor/Superviseur qualifié

Garth Drever

This Permit is issued to: Ce Permis est délivré a:

Name of Permittee:/Nom du détenteur:

Frontier Lithium Inc.

Mailing Address:/Adresse postale:

2736 Belisle Dr, Val Caron, ON P3N 1B3

To conduct early exploration activities from/ Pour effectuer des activités d'exploration du (yyyy/mm/dd):

2023/01/18

to:

2026/01/17

On claim/lease/licence of occupation number(s):/Sur le numéro(s) du claim/bail/permis d'occupation:

LEA-109669

As per the project map(s) and Activity Details Report, all of which are attached hereto and which form part of this permit/
Selon la/les carte(s) du projet et le Rapport Détaillé des Activités, tous qui sont attachés ici et qui forment partie du permis

for the purpose of Permit activities:

- Mechanized Drilling (assembled weight >150kg)/ Forage mécanisé (poids assemblé >150 kg)
- Mechanized Stripping (>100m² in 200m radius)/ Décapage mécanisé (>100 m² dans un rayon de 200 m)
- Pitting and Trenching (>3m³ in 200m radius)/ Creusement de fosses et de tranchées (>3 m³ dans un rayon de 200 m)
- Line Cutting (>1.5m width)/ Découpage des quadrillages (>1,5 m de largeur)
- Other (Early exploration activities for which Director has required a permit)/Autre (Activités d'exploration préliminaires pour laquelle le Directeur a demandé un permis):

for the purpose of Plan activities:

- Ground geophysical survey requiring a generator (Les levés géophysiques au sol qui nécessitent l'utilisation d'une génératrice)
- Mechanized Drilling (assembled weight <150kg)/ Forage mécanisé (poids assemblé <150 kg)

- Mechanized Stripping (<100m² in 200m radius)/ Décapage mécanisé (<100 m² dans un rayon de 200 m)
- Pitting and Trenching (1-3m³ in 200m radius)/ Creusement de fosses et de tranchées (1-3 m³ dans un rayon de 200 m)
- Line Cutting (<1.5m width)/ Découpage des quadrillages (<1,5 m de largeur)

Subject to the following conditions:/Et sous les conditions suivantes:

1. The Permittee shall keep this permit or a true copy thereof on the permit area./Le détenteur conserver ace permis ou une copie conforme sur les lieux des travaux.
2. The person in charge of the operation conducted under this permit shall produce and show this permit or the true copy kept on the exploration permit area to any inspector whenever requested by the officer./Le responsable des travaux couverts par ce permis doit produire le permis ou sa copie conforme si un inspecteur lui demande.
3. The requirements outlined in Schedule 1 of Ontario Regulation 308/12 and applicable Provincial Standards for Early Exploration/ Les exigences générales identifier à l'annexe 1 du Règlement de l'Ontario 308/12 et les normes provinciale relatives a l'exploration préliminaire.
4. Other terms and conditions as listed on this permit./Autres termes et conditions énoncées sur ce permis.

Place of Issue/Emis a:

Thunder Bay

Issued by/Emis par:

Neal Bennett, Director of Exploration

Date of Issue/Date émis (yyyy/mm/dd, aaaa/mm/jj):

2023/01/18

Signature of Director/Signature du directeur:



Additional Terms and Conditions:

Autre termes et conditions:

Collection of personal information, if any, on this form is authorized by sections 7, 78.2, 78.3, and subsection 178.2(1) of the *Mining Act* for the purpose of creating a public record as described in section 37 of the *Freedom of Information and Protection of Privacy Act*. This information may also be posted in a modified form on the Ministry of Northern Development and Mines website and on the Environmental Registry for public comment. Questions about this collection should be directed to the Mineral Exploration and Development Section, Ministry of Northern Development and Mines, 933 Ramsey Lake Road, Sudbury ON P3E 6B5. Telephone 705-670-5815.

Preferred language of
correspondence

English

French

Fields marked with an asterisk (*) are mandatory.

1. Project Details

Project Name *

PAK Bulk Sample

Name of Early Exploration Proponent *

Frontier Lithium Inc

Is the proposed early exploration area within the project area for an existing filed closure plan? *

Yes No

Are there any mine hazards identified in the [Abandoned Mines Information System \(AMIS sites\)](#) in your project area? *

Yes No

Enter the Universal Transverse Mercator Coordinates (UTM) in North American Datum 83 (NAD 83) Grid for the centre of your project area

Zone (N) *

NAD83 Zone 15

Easting (m) *

474505

Northing (m) *

5827975

2. Exploration Logistics and Detailed Information

Will explosives be used for any activity/activities? If yes describe in detail which activities require the explosives, where they will be stored, and any other relevant information.

Yes Explosives will be used. All explosives will be handled by certified personnel and brought in as required. No explosives will be stored on site.

What commodity or commodities are being sought in the work program?

Lithium ore that will be processed off-site

How will you be transporting personnel to the exploration site for all activities? Describe in detail.

All personnel involved will be brought in by All Wheel drive vehicles on the Winter road and Existing Access trails to the project site.

How will you be mobilizing/demobilizing equipment to and from the exploration site for all activities? Describe in detail.

Existing winter road access can be used to transport or drive all equipment and supplies required to complete the job.

What type of equipment will you be using for all of the early exploration activities?

An excavator which is currently on site will be used to clear snow, a Gardener-Denver BV5000 or equivalent production drill will be used to drill blast holes and 20 Tonne triple Axle dump trucks will be used to haul the blasted material from the site

What type of drilling will take place? (e.g. core drilling, reverse circulation)

Only production drilling will be performed. All holes will be sampled prior to blasting to determine optimum blast pattern.

Do you anticipate the removal of the drill casing?

Yes No

If yes, when will you be removing it?

Immediately 3 to 6 months 6 to 12 months 1 to 2 years

For the exploration activities you have selected in your early exploration submission please fill in the associated details (required for all activities proposed). *

Geophysical surveys requiring a generator ▶ Type of Survey _____

Line cutting ▶ Estimated total line length _____ metres

Mechanized Stripping ▶ Planned Number of stripped locations _____
Estimated total area of stripping _____ square metres

Pitting and Trenching of Bedrock ▶ Planned Number of Pits/Trenches 1

Mechanized Drilling ▶ Planned drill hole diameter _____ centimetres
 1 - 5 pads
 6 - 10 pads
 11 - 15 pads
 16 - 20 pads
 > 20 pads

Please identify any non-prescribed activity/activities you will be undertaking to support the prescribed early exploration activity/activities

- Creating trails for the purposes of early exploration
- Creating roads for the purposes of early exploration
- Creating/setting up camp(s) to house personnel to perform your prescribed early exploration activities
Number of people in camp _____ Number of camps _____
- Ground geophysical surveys without a generator
- Airborne geophysical surveys

Are you planning to store fuel or other hazardous materials on the property? *

Yes No

Please provide any other information relevant to this project.

This ADR is to accompany an application for a bulk sample application. No new access trail are required and the existing temporary camp used for exploration drilling will be utilized. Fuel required will be provided by the active drill program running simultaneously.

3. Signature

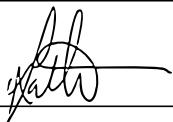
Name (Last Name, First Name)

Drever

Email Address

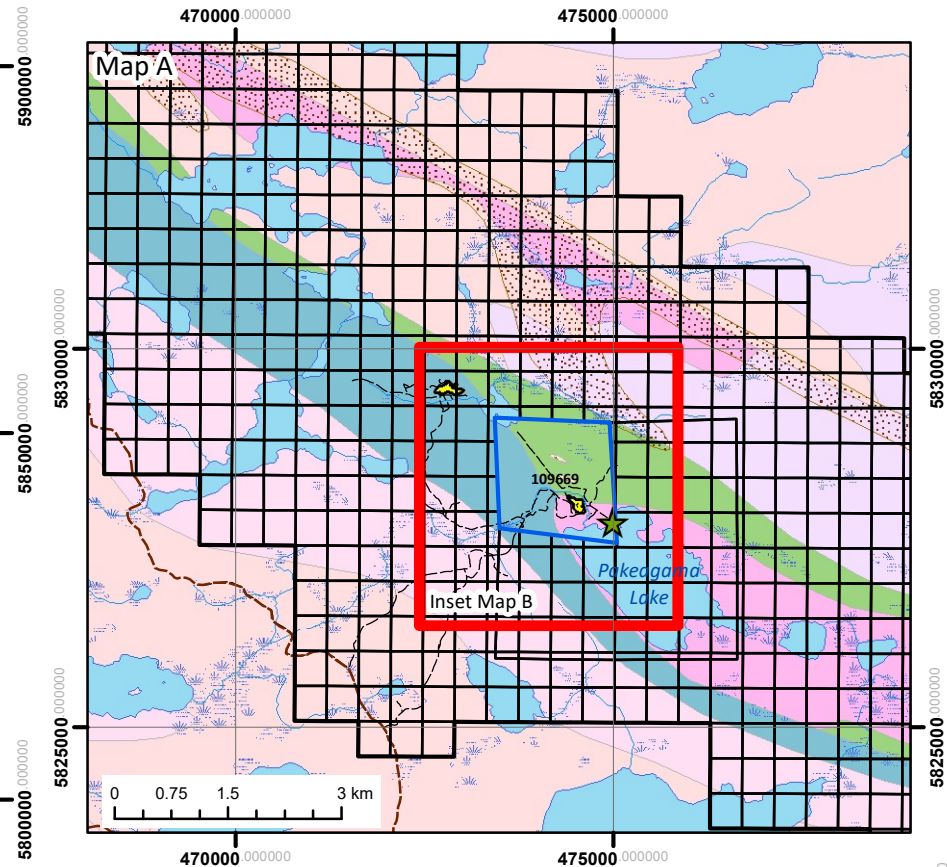
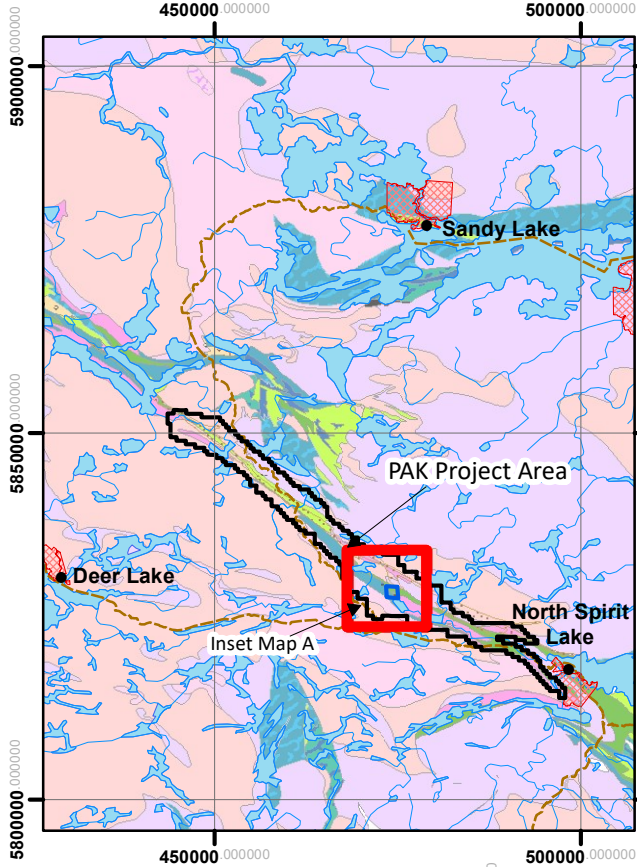
gdrever@frontierlithium.com

Signature



Date (yyyy/mm/dd)

2021/10/21

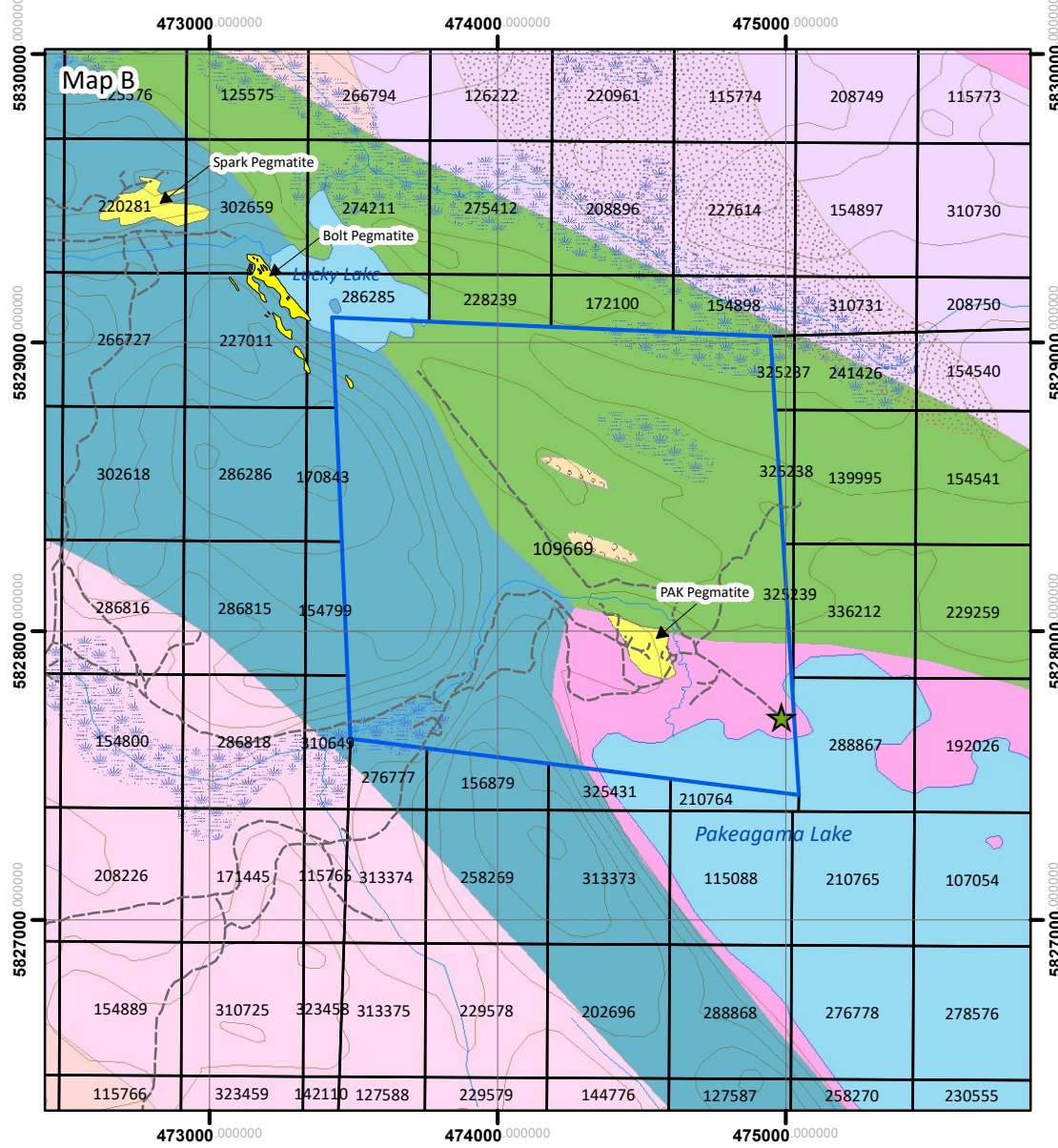


LEGEND

- Frontier Mining Lease
- Frontier Mining Claims
- PAK Project Outline
- Exploration Camp
- Winter Road
- Existing Trails

GEOLOGY

- Fault Zone
- Pegmatite
- Two-Mica Granite
- Foliated Tonalite suite
- Gneissic Tonalite suite
- Granodiorite to granite
- Migmatized supracrustals
- Coarse clastic metased
- Felsic metavolcanic rocks
- Metasedimentary rocks
- Hornblende - syenite suite
- Metavolcanic rocks
- Metaseds, mafic-ultramafic
- Mafic metavolc- metaseds
- Mafic and ultramafic rocks



FRONTIER LITHIUM PAK Lithium Project

Location Map Showing Regional Geology, Land Tenure and Location of Lithium Pegmatites

Scale: 1:25,000

WGS84 UTM zone 15N
Compiled by: G Drever, 2021-06-28

Figure: 1