



**General Water Licence Application  
(Application for a new Water Licence)**

**Lupin Mine Winter Access Road  
Lupin Mines Inc. c/o Mandalay Resource**

Application Submission Date: August 22, 2024

## **DOCUMENT MANAGEMENT**

Original Document Date: April 2010

### **DOCUMENT AMENDMENTS**

	<b>Description</b>	<b>Date</b>
(1)	Updated for public distribution as separate document from NWB Guide 4	June 2010
(2)	Updated NWB logos and reformatted table to allow rows to break across page	May 2011
(3)	Update NWB logo	April 2013
(4)		
(5)		
(6)		
(7)		
(8)		
(9)		
(10)		



P.O. Box 119

GJOA HAVEN, NU X0B  
1J0

TEL: (867) 360-6338

FAX: (867) 360-6369

kNK5 wmoEp5 vttmp5

NUNAVUT WATER BOARD

NUNAVUT IMALIRIYIN KATIMAYIT  
OFFICE DES EAUX DU NUNAVUT

### GENERAL WATER LICENCE APPLICATION (APPLICATION FOR NEW WATER LICENCE)

The applicant is referred to the NWB's Guide 4: [Guide to Completing and Submitting a Water Licence Application for a New Licence](#) for more information about this application form.

<b>LICENCE NO:</b> (for NWB use only)	
<b>1. APPLICANT (PROPOSED LICENSEE) CONTACT INFORMATION</b> (name, address)  Lupin Mines Incorporated c/o Mandalay Resources Corp. Suite 3720 – 155 University Avenue Toronto, ON M5H 3B7  Phone: (403) 808-1534 E-mail: <a href="mailto:kellie@falkirk.ca">kellie@falkirk.ca</a>	<b>2. APPLICANT REPRESENTATIVE CONTACT INFORMATION</b> if different from Block 1 (name, address)  Phone: _____ Fax: _____ e-mail: _____ (Attach authorization letter.)
<b>3. NAME OF PROJECT</b> (including the name of the project location)  Lupin Mine Winter Access Road	
<b>4. LOCATION OF UNDERTAKING</b>  <b>Project Extents</b> <b>Coordinates for start and end points of the road are provided.</b> NW: Latitude: <b>(65.779171217N)</b> Longitude: <b>(-111.234159398 W)</b> NE: Latitude: ( ° ′ ″ N) Longitude: ( ° ′ ″ W) SE: Latitude: <b>(65.030828286 N)</b> Longitude: <b>(-109.719437488 W)</b> SW: Latitude: ( ° ′ ″ N) Longitude: ( ° ′ ″ W)  <b>Camp Location(s)</b> <b>The camp location will be adjacent to Portage 55 of the TCWR in NWT.</b> Latitude: ( ° ′ ″ N) Longitude: ( ° ′ ″ W)	
<b>5. MAP</b> - Attach a topographical map, indicating the main components of the undertaking.	
<b>Refer to Appendix I.</b>	

NTS Map Sheet No.: \_\_\_\_\_ Map Name: \_\_\_\_\_ Map Scale: \_\_\_\_\_  
**76E Contwoyo Lake 1:700,000**  
**76F Nose Lake 1:700,000**

**Note that this is a transboundary project and will be licenced in the Northwest Territories (see Section 6 of this Application). One of the water sources, Pellatt Lake is a transboundary lake.**

**6. NATURE OF INTEREST IN THE LAND** - Check any of the following that are applicable to the proposed undertaking (at least one box under the 'Surface' header must be checked).

**Sub-surface**

Mineral Lease from Nunavut Tunngavik Incorporated (NTI)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

Mineral Lease from Indian and Northern Affairs Canada (INAC)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

**Surface**

Crown Land Use Authorization from Indian and Northern Affairs Canada (INAC)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: Application pending.

Inuit Owned Land (IOL) Authorization from Kitikmeot Inuit Association (KIA)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: Application pending

IOL Authorization from Kivalliq Inuit Association (KivIA)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

IOL Authorization from Qikiqtani Inuit Association (QIA)  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

Commissioner's Land Use Authorization  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: \_\_\_\_\_

Other: **Mackenzie Valley Land and Water Board** \_\_\_\_\_  
Date (expected date) of issuance: \_\_\_\_\_ Date of expiry: Application pending

Name of entity(s) holding authorizations:

**Lupin Mines Incorporated**

**7. NUNAVUT PLANNING COMMISSION (NPC) DETERMINATION**

Indicate the land use planning area in which the project is located.

North Baffin  
 South Baffin  
 Akunniq

Keewatin  
 Sanikiluaq  
 West Kitikmeot

Is a land use plan conformity determination required?

Yes

No -Decision made by NPC on Oct.15

that previous conformity determination remains in place.

If Yes, indicate date issued and attach copy

If No, provide written confirmation from NPC confirming that a land use plan conformity review is not required.

**See attached indications from the NPC from June 11, 2024 File # 15043  
(Appendix K).**

**8. NUNAVUT IMPACT REVIEW BOARD (NIRB) DETERMINATION**

Is an Article 12 Part 4 screening determination required?

Yes

No

If Yes, indicate date issued and attach copy \_\_\_\_\_

If No, provide written confirmation from NIRB confirming that a screening determination is not required. **Please refer to Appendix L**

**9. DESCRIPTION OF UNDERTAKING – List and attach plans and drawings or project proposal.**

The Applicant plans to construct and operate a portion of the existing Tibbitt to Contwoyo Winter Road from the Ekati turnoff in NWT to the Lupin Mine in NU, to support resupply for ongoing reclamation at the Lupin Mine.

To do so, the Applicant may withdraw up to a maximum of 299 m<sup>3</sup>/day of water for construction and maintenance of a winter road, and seasonal operation, including on-ice portions and portages. Portages may require snow fill and/or ice bridges.

Where necessary, water may be withdrawn from adjacent lakes and either applied directly to the work area, being the lake ice road surface and/or portages, or stored in a water truck (approx. 15,000 L) and then administered where needed on the ice road surface and/or at portages by crews of 2-3 people. Depending on site conditions, portages may be constructed by compacting snow with a snow cat or equivalent and applying water to create a durable surface.

Consultations with the Tibbitt to Contwoyo Winter Road Joint Venture have taken place to ensure access is permitted and there is no conflict in scheduling of work. The current work plan and route does not deviate from formerly permitted winter roads along this route by prior proponents.

**10. OPTIONS – Provide a brief explanation of the alternative methods or locations that were considered to carry out the project.**

No alternative locations have been considered. The project is located within an established transportation corridor.

Alternative methods include allowing the ice thickness to naturally increase without flooding, and to use only snowfills at portages. While these may be feasible, onsite conditions vary from year to year, and so the Applicant wishes to have the flexibility to use water to support ice road and portage construction as required.

**11. CLASSIFICATION OF PRIMARY UNDERTAKING - Indicate the primary classification of undertaking by checking one of the following boxes.**

Industrial

Agricultural

<input type="checkbox"/> Mining and Milling (includes exploration/drilling/exploration camps)	<input type="checkbox"/> Recreational
<input type="checkbox"/> Conservation	<input type="checkbox"/> Miscellaneous (describe below):
<input type="checkbox"/> Municipal (includes camps/lodges)	
<input type="checkbox"/> Power	

**Winter road construction**

See Schedule II of *Northwest Territories Waters Regulations* for Description of Undertakings.

Information in accordance with applicable Supplemental Information Guidelines (SIG) must be submitted with a New Water Licence Application. Indicate which SIG(s) are applicable to your application.

<input type="checkbox"/> Hydrostatic Testing	
<input type="checkbox"/> Tannery	
<input type="checkbox"/> Tourist / Remote Camp	
<input type="checkbox"/> Landfarm & On-Site Storage of Hydrocarbon Contaminated Soil	
<input type="checkbox"/> Onshore Oil and Gas Exploration Drilling	
<input type="checkbox"/> Mineral Exploration / Remote Camp	
<input type="checkbox"/> Advanced Exploration	
<input type="checkbox"/> Mine Development	
<input type="checkbox"/> Municipal	
<b>X</b> General Water Works	
<input type="checkbox"/> Power	

**12. WATER USE** - Check the appropriate box(s) to indicate the type(s) of water use(s) being applied for.

<input type="checkbox"/> To obtain water for camp/ municipal purposes	<input type="checkbox"/> To divert a watercourse
<input type="checkbox"/> To obtain water for industrial purposes	<input type="checkbox"/> To modify the bed or bank of a watercourse
<input type="checkbox"/> To cross a watercourse	<input type="checkbox"/> Flood control
<input type="checkbox"/> To alter the flow of, or store water	

**X** Other: **Winter road construction.**

**13. QUANTITY AND QUALITY OF WATER INVOLVED** - For each type of water use indicated in Block 12, provide the source of water, the quality of the water source and available capacity, the estimated quantity to be used in cubic meters per day, method of extraction, as well as the quantities and qualities of water to be returned to source.

Name of water source(s) (show location(s) on map):

**Contwoyto Lake, Pellatt Lake.**

Describe the quality of the water source(s) and the available capacity:

**Source water quality is expected to be characteristic of typical Arctic lakes. Source lakes are very large; withdrawal volumes will be <10% of the available water in each lake. Water used for ice road construction on lakes will remain on the lakes as ice cover.**

Provide the overall estimated quantity of water to be used: **Approximately 5,544m3/day**

Provide the estimated quantity(s) of water to be used from each source:

**It is anticipated that the projec will use <99m3/day withdrawn intermittently as needed throughout construction. However, we understand that a Type B license allows for up to 299 m3/day,**

Indicate the estimated quantities to be used for each purpose (camp, drilling, etc.)

**Up to 299 m3/day for winter road construction.**

Describe the method of extraction(s): **pump with appropriately sized screened intake**

Estimated quantity(s) of water returned to source(s): **up to 299 m<sup>3</sup>/day, when flooding lake surface.**

Describe the quality of water(s) returned to source(s): **Pristine. Water used will be either applied directly back to the snow or ice surface, or, if stored temporarily before use, will be stored in a dedicated water truck.**

**14. WASTE** – Check the appropriate box(s) to indicate the types of waste(s) generated and deposited.

<input type="checkbox"/> Sewage <b>x</b>	<input type="checkbox"/> Waste oil
<input type="checkbox"/> Solid Waste <b>x</b>	<input type="checkbox"/> Greywater <b>x</b>
<input type="checkbox"/> Hazardous	<input type="checkbox"/> Sludges
<input type="checkbox"/> Bulky Items/Scrap Metal	<input type="checkbox"/> Contaminated soil and/or
<input type="checkbox"/> Animal Waste	<input type="checkbox"/> water <b>x</b>

**X** Other (describe): **In the event of a spill, spent spill response materials may be generated. Any other solid waste generated on site is expected to be minimal and will disposed of offsite at authorized facilities such as the Lupin Mine (see Appendix S).**

**15. QUANTITY AND QUALITY OF WASTE INVOLVED** – For each type of waste indicated in Block 14, describe its composition, quantity in cubic meters/day, method of treatment and method of disposal.

Type of Waste	Composition	Quantity Generated	Treatment Method	Disposal Method
Spent spill response materials	Various absorbent materials	Various	n/a	Backhaul for disposal at KBL, Yellowknife
Treated sewage				Sump
Greywater				Sump
Food waste				Incinerate or haul
Please Appendix. R - Waste management plan				

**16. OTHER AUTHORIZATIONS** – In addition to the sub-surface and surface land use authorizations provided in Block 6, indicate any other authorizations required in relation to the proposed undertaking. For each provide the following:

Authorization: **Approval Without a Licence (in process)**

Administering Agency: **Nunavut Water Board**

Project Activity: **Early season withdrawal to support winter road construction in advance of receipt of Type B water licence.**

Date (expected date) of issuance: **December 1, 2024** Date of expiry: **November 30, 2029**

**17. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES** - Describe direct, indirect, and cumulative impacts related to water and waste.

**Refer to Appendix M.**

**18. WATER RIGHTS OF EXISTING AND OTHER USERS OF WATER**

Provide the names, addresses and nature of use for any known persons or properties that may be adversely affected by the proposed undertaking, including those that hold licences for water use in precedent to the application, domestic users, in-stream users, authorized waste depositors, owners of property, occupiers of property, and/or holders of outfitting concessions, registered trapline holders, and holders of other rights of a similar nature.

Advise the Board if compensation has been paid and/or agreement(s) for compensation have been reached with any existing or other users.

**It is understood that the following water licenses have been issued for water use from Contwoyto Lake:**

- **2AM-LUP1520, water use for mine care and maintenance, Lupin Mines Inc. 76 Richmond Street East, Suite 330 Toronto, ON M5C 1P1**
- **2AM-JER1119, water use for winter road construction c/o CIRNAC, P.O.Box 2200 Iqaluit, NU X0A 0H0**

**It is understood that there are outpost camps located on Contwoyto Lake.**

**Given the volume of Contwoyto Lake and the nature and duration of the proposed water use, none of these users are expected to be adversely affected.**

**19. INUIT WATER RIGHTS**

Advise the Board of any substantial affect of the quality, quantity or flow of waters flowing through Inuit Owned Land (IOL), and advise the Board if negotiations have commenced or an agreement to pay compensation for any loss or damage has been reached with one or more Designated Inuit Organization (DIO).

**20. CONSULTATION** – Provide a summary of any consultation meetings including when the meetings were held, where and with whom. Include a list of concerns expressed and measures to address concerns.

**Refer to Appendix N.**

**21. SECURITY INFORMATION**

Provide an estimate of the total financial security for final reclamation equal to the total outstanding reclamation liability for land and water combined sufficient to cover the highest liability over the life of the undertaking. Estimates of reclamation costs must be based on the cost of having the necessary reclamation work done by a third party contractor if the operator defaults. The estimate must also include contingency factors appropriate to the particular work to be undertaken.

Where applicable, the financial security assessment should be prepared in a manner consistent with the principals respecting mine site reclamation and implementation found in the *Mine Site Reclamation Policy for Nunavut*, Indian and Northern Affairs Canada, 2002.

**Refer to Appendix C.**

**22. FINANCIAL INFORMATION**

Provide a statement of financial responsibility.

If the applicant is a business entity, provide a list of the officers of the company.

If the applicant is a business entity attach a copy of the Certificate of Incorporation or evidence of registration of the company name.

**Refer to Appendices A, D & E.**

**23. STUDIES UNDERTAKEN TO DATE** - List and attach copies of studies, reports, research, etc.

n/a

**24. PROPOSED TIME SCHEDULE** – Indicate the proposed start and completion dates for each applicable phase of development (construction, operation, closure, and post closure).

Construction

Proposed Start Date: **Dec 2024** Proposed Completion Date: **March 2025**

Operation

Proposed Start Date: **Jan 2025** Proposed Completion Date: **May 2025**

Closure

Proposed Start Date: **Apr 2025** Proposed Completion Date: **May 2025**

Post - Closure

Proposed Start Date: \_\_\_\_\_ Proposed Completion Date: \_\_\_\_\_  
(month/year) (month/year)

For each applicable phase of development indicate which season(s) activities occur.

Construction

Winter  Spring  Summer  Fall  All season

Operation

Winter  Spring  Summer  Fall  All season

Closure

Winter  Spring  Summer  Fall  All season

Post - Closure

Winter  Spring  Summer  Fall  All season

**25. PROPOSED TERM OF LICENCE**

Number of years (maximum of 25 years): **3 years**

Requested Date of Issuance: **December 2024** Requested Expiry Date: **December 2027**

(The requested date of issuance must be at least three (3) months from the date of application for a type B water licence and at least one (1) year from the date of application for a type A water licence, to allow for processing of the water licence application. These timeframes are approximate and do not account for the time to complete any pre-licensing land use

planning or development impact requirements, time for the applicant to prepare and submit a water licence application in accordance with any project specific guidelines issued by the NWB, or the time for the applicant to respond to requests for additional information. See the NWB's *Guide 5: Processing Water Licence Applications* for more information)

**26. ANNUAL REPORTING** – If not using the NWB's *Standardized Form for Annual Reporting*, provide details regarding the content of annual reports and a proposed outline or template of the annual report.

**The Applicant will use the NWB's *Standardized Form for Annual Reporting* and any other conditions as per the approved licence.**

**27. CHECKLIST** – The following must be included with the application for the water licensing process to begin.

Written confirmation from the NPC confirming that NPC's requirements regarding land use plan conformity have been addressed.

Yes       No      If no, date expected \_\_\_\_\_

Written confirmation from the NIRB confirming that NIRB's requirements regarding development impact assessment have been addressed.

Yes       No      If no, date expected \_\_\_\_\_

Completed General Water Licence Application form.

Yes       No      If no, date expected \_\_\_\_\_

Information addressing Supplemental Information Guideline (SIG) , where applicable (see Block 11)

Yes       No      If no, date expected \_\_\_\_\_

English Summary of Application.

Yes       No      If no, date expected \_\_\_\_\_

Inuktitut and/or Inuinnaqtun Summary of Application.

Yes       No      If no, date expected \_\_\_\_\_

Application Fee of \$30.00 CDN (Payee Receiver General for Canada).

Yes       No      If no, date expected: [DATE]. Cheque has been sent by mail, and pdf copy of the cheque is attached (Appendix F).

Water Use Fee Deposit of \$30.00 CDN (Payee Receiver General for Canada). The actual water use fee will be calculated by the NWB based upon the amount of water authorized for use in accordance with the Regulations at the time of issuance of the licence.

Yes       No      If no, date expected: [DATE]. Cheque has been sent by mail, and pdf copy of the cheque is attached (Appendix F).

**28. SIGNATURE**

<b>Kellie Leedham</b>	<b>Regulatory Compliance Lead</b>		<b>August 22, 2024</b>
<b>Name (Print)</b>	<b>Title (Print)</b>	<b>Signature</b>	<b>Date</b>