



WATER LICENCE INSPECTION FORM

☒ Original
☐ Follow-Up Report

Licensee		Licensee Representative	
Lupin Mines Inc		Karyn Lewis	
Licence No. / Expiry		Representative's Title	
2AM-LUP1520 / Expiry 18 Aug 2020		Project Manager	
Land / Other Authorizations		Land / Other Authorizations	
Date of Inspection		Inspector	
05 August 2018		Baba Pedersen	
Activities Inspected			
<input checked="" type="checkbox"/> Camp	<input type="checkbox"/> Drilling	<input type="checkbox"/> Mining	<input type="checkbox"/> Construction
<input type="checkbox"/> Roads/Hauling	<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	<input checked="" type="checkbox"/> Reclamation
		<input type="checkbox"/> Fuel Storage	

Conditions:	A - Acceptable		C - Concern	U - Unacceptable		NA – Not Applicable		NI – Not Inspected	
Water Use			Site Conditions			Haz/Mat Management			
	Condition	Comment		Condition	Comment		Condition	Comment	
Intake/Screen	A	3	Water Management Structures			Storage	A	7	
Flow Measure. Device	A	6	Culverts / Bridges			Spills			
Source:			Drainage			Spill Plan			
Water Use:	A	1	Erosion / Sediment						
Recirculation (y /n)			Mitigation Measures	NI	9 & 10	Administrative			
			Reclamation Activities	A	4,5,8,11&12	Records			
			Materials Storage			Reports			
Waste Disposal			Signage	C	2,3 & 11	Plans	A	14&15	
Waste Water	A	2				Notifications	A	14&15	
Solid Waste			Monitoring			Other			
Hazardous Waste			Sample Collection / Analysis			Borrow Pit	A	13	
*The number in the comments field will correspond with specific comments provided below.									
Samples taken by Inspector:			Location(s): No Samples were taken during this Inspection						
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									

SECTION 1	<input checked="" type="checkbox"/> Comments (s. __)	<input type="checkbox"/> Non-Compliance with Act or Licence (s. __)	<input type="checkbox"/> Action Required (s. __)
I Inspected the Lupin Mine Site (Photo 1) Reclamation on August 5, 2018. I was accompanied by Karyn Lewis, Project Manager and Johnny, Acting Camp Manager for Lupin Mines Incorporated.			
SECTION 2	<input checked="" type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input type="checkbox"/> Action Required
I saw; 1. The Water Usage Records (Photo 2) 2. The Sewage Lagoon Pond and Decant Area (Photos 3, 4 & 5), 3. The Raw Water Intake (Photo 6), 4. The Satellite Tank Farm (Photo 7), 5. The Land Farm Area (Photo 8), 6. The Water Storage and Usage Meter Container (Photo 9), 7. Main Fuel Tank Farm (Photo 10), 8. Cell 5, 9. Dam M, 10. DAM 1A, 11. Pond 2 aka The Polishing Pond (Photos 11 & 12), 12. Cell 3 (Photo 13), and 13. The Fingers Lake Borrow Pit (Photo 14). 14. Their Water License Renewal Application and Final Closure Plan were submitted to the NWB last week (late July 2018). 15. Five associated Land Lease Renewal Applications were signed and submitted to INAC Lands in July 2018.			
SECTION 3	<input type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
1. YTD Water Usage since opening on April 29, 2018 is 339.5 Cubic Meters, well within allowable limits. 2. The Sewage Lagoon Decant Program is complete for this season. Signage for Sample Station LUP-14 was faded and requires Replacement. 3. Signage must be placed at the Raw Water Intake to show Sample Location. 4. The Satellite Tank Farm Tanks will all be cleaned and certified by a Mechanical Engineer within 2 weeks, then moved to the Bone Yard for Cutting Up. 5. The Contaminated Soils in the Land Farm are being treated. The plan is to place all this underground during Site Reclamation. 6. Water Usage Records are acceptable. 7. Tank #4 has about 4 feet of P-50 and Tank #3 has about 12 inches of P-50. There is a small amount of Jet Fuel in the Dark Brown Tank. All on site fuel is expected to be used up during the Site Reclamation. 8. Cell 5 is scheduled to be covered in 2019. 9. Observation Only. 10. Observation Only. 11. They were actively adding Lime to Pond 2 in order to bring the Ph Level up before a planned discharge. Environment Canada is sampling to provide approvals. Signage for Sample Station LUP-10 has been blown away and needs Replacement. 12. Cell 3 is scheduled to be covered in 2019. 13. They are actively using the Fingers Lake Borrow Pit, I have no issues here. 14. Thank you for submitting this to the NWB. 15. Thank you for submitting these to INAC Lands.			



Licensee or Representative	Inspector's Name
	Baba Pedersen
Signature	Signature
	Signed Original on File
Date	Date
	23 January 2019

Office Use Only:	Follow-up report to be issued by Inspector	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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cc. CIRNAC, Manager Field Operations, Iqaluit, justin.hack@canada.ca

Nunavut Water Board, Manager of Licensing, Gjoa Haven, licensing@nwb-oen.ca



PHOTO LOG

Date	Camera	Inspector	Authorization
05 August 2018	Sony DSC-HX50V	Baba Pedersen	2AM-LUP1520

Photo Log # DSC03981

Photo 1



Description: Aerial View of Lupin Mine Site

Photo Log # DSC03999

Photo 2

<div>DISCOVERY MINING SERVICES Discovery Air</div>							
Lupin Mine Camp Water Use							
Date	meter reading (time)	meter reading (US gal)	daily use (US gal)	daily use (litres)	total water use (litres)	total water used (m3)	Comments
26-Apr-18		0	0	0	0	0.00	Opened camp
27-Apr-18		0	0	0	0	0.00	melted snow for water
28-Apr-18 15:00pm		0	0	0	0	0.00	Installed meter, filled tanks
29-Apr-18 13:00pm		682.3	682.3	2729.2	2,729	2.73	6 persons in camp
30-Apr-18 08:00am		1173.4	491.1	1964.4	4,694	4.69	6 persons in camp
1-May-18 08:00am		1755.6	582.2	2328.8	7,022	7.02	8 persons in camp
2-May-18 08:30am		2179.4	423.8	1695.2	8,718	8.72	7 persons in camp
3-May-18 09:30am		2553	373.6	1494.4	10,212	10.21	7 persons in camp
4-May-18 07:35am		2987.1	434.1	1736.4	11,948	11.95	7 persons in camp
5-May-18 08:40am		3457.3	470.2	1880.8	13,829	13.83	7 persons in camp
6-May-18 07:41am		4376.5	919.2	3676.8	17,506	17.51	7 persons in camp
7-May-18 07:40am		4813.2	436.7	1746.8	19,253	19.25	7 persons in camp

Description: Computer Screen Shot showing Water Usage of 339.5 Cubic Meters of Water since opening on 2018 April 29



Photo Log # DSC04009

Location : Sewage Lagoon Pond

Photo 3



Description: Sewage Lagoon Pond showing Decant Intake Lines

Photo Log # DSC04010

Location : Sewage Lagoon Pond

Photo 4



Description: Sewage Lagoon Pond showing Decant Outflow Lines



Photo Log # DSC04015

Location : Sewage Lagoon Pond

Photo 5



Description: Sample Station LUP-14 at Sewage Lagoon Pond Decant Outflow showing faded Signage that requires REPLACEMENT

Photo Log # DSC04025

Location : Water Intake

Photo 6

N 65°46'38.4" W 111°13'01.2"



Description: Water Intake location on Contwoyto Lake showing NO SIGNAGE



Photo Log # DSC04047

Location : Satellite Tank Farm

Photo 7



Description: Satellite Tank Farm waiting to be Cleaned and Certified before being moved to Bone Yard to be Cut Up for Disposal

Photo Log # DSC04048

Location : Land Farm

Photo 8



Description: Contaminated Soil being treated in Land Farm prior to planned placement Underground for Permanent Storage



Photo Log # DSC04055

Location : Water Storage Container

Photo 9



Description: Inside view of Container used for Water Storage Tank and Usage Meter

Photo Log # DSC04063

Location : Main Fuel Tank Farm

Photo 10



Description: View of some of the Tanks in Main Tank Farm



Photo Log # DSC04084

Location : Pond 2 (aka Polishing Pond)

Photo 11



Description: Project to add Lime to raise Ph Level prior to Discharge

Photo Log # DSC04092

Location : Pond 2 (aka Polishing Pond)

Photo 12



Description: Decant Outflow Area, Sample Station LUP-10 SIGNAGE NEEDS REPLACEMENT



Photo Log # DSC04099

Location : Cell 3

Photo 13



Description: Cell 3 (and Cell 5) which are to be Covered in 2019

Photo Log # DSC04106

Location : Fingers Lake Borrow Pit

Photo 14



Description: Partial View of Fingers Lake Borrow Pit