

WATER LICENCE / LAND USE INSPECTION FORM

Original	
Follow-Up	Report

Licensee Representative										
Hornby Bay Mineral Exploration Ltd										
Licence No. / Expiry				Representa	itive's Title					
2BE-MOU1419				-						
Land / Other Authorizations				Land / Oth	er Authoriz	ations				
N2011C0007										
Date of Inspection				Inspector						
13/07/2014				Eva Pa	ul					
Activities Inspected										
☐ Camp ☐ Roads/Hauling ☐	Drilling Other:		☐ Mining ☐ Construction ☐ Reclamation ☐ Fuel Storage ☐ Other:			!				
	, other									
Conditions: A - Acceptable C - Concern U - Unacceptable NA – Not Applicable NI – Not Ins			Not Insp	ected						
Water Use	Condition	Comment	Site Conditions		Condition	Comment	Haz/Mat Managen	nent	Condition	Comment
Intake/Screen	NI		Water Manageme	nt Structures	U	2	Storage		U	2
Flow Measure. Device	NI		Culverts / Bridges		NA		Spills		U	4
Source: Mouse Lake	Α		Drainage		Α		Spill Plan		Α	
Water Use:	NA		Erosion / Sediment		Α					
Recirculation (<u>v</u> / n)	NA		Mitigation Measures		U	2	Administrative			
			Reclamation Activities		U	3	Records		NI	
			Materials Storag	e	U	1	Reports		Α	
Waste Disposal			Signage		NA		Plans		Α	
Waste Water	Α						Notifications		Α	
Solid Waste	U	1	Monitoring				Other			
Hazardous Waste	J	2	Sample Collection / Analysis		NA					
*The number in the comments field will correspond with specific comments provided below.										
Samples taken by Inspector:			Location(s):							
☐ Yes ⊠ No										

SECTION 1	Comments (s.1)	Non-Compliance with Act or Licence (s.2)	Action Required (s.3)

July 13 2014 was my first visit to Hornby Bay's Mouse Lake project. This project is not currently active, but work was done on the main camp in 2013. Three sites were visited: (A) Fuel Cache: N66°42′04.8 W115°45′37.9, (B) Fuel Cache and drill setup: N67°01′10.2″ W115°54′19.3″ and (C) Camp: N67°05′59.2″ W115°44′17.7″. These coordinates were provided by the company. A third fuel cache (D) at N67°13′35.0″ W117°28′05.0″ was inspected by RMO Baba Pedersen on August 8 2014. The findings are as follows:

- 1. Waste issues have resulted from improper materials storage and insufficient site management. At the drill site (B), a drill setup remains on site, and an emergency shack. The emergency shack has been ripped apart by bears, and supplies are strewn across the tundra. A pile of drill timbers were noted at approximately N67°03′12″ W115°49′40″, 5 km from the drill site en-route to camp. At the camp, litter is accumulating in the kitchen sump. With respect to materials storage, there are pallets and core boxes stored at the dock (at camp), and a shack also on the immediate bank of the lake within the high water mark. Propane tanks are stored by the shack.
- Salt has been stored without sufficient protection from the elements, both at the drill site (B) and at the main camp. At the drill site, the salt is almost completely dissolved and has resulted in a large salt-burned area where the vegetation has died. Saltimpacted areas are difficult to remediate. There is evidence that this process is beginning at the camp as well, as vegetation is dying off near the salt stacks. All fuel at the site is expired; as old as 2008. Expired fuel is also considered hazardous waste, and this has not been removed from site. Fuel is not being monitored, contrary to the Licence and LUP. Remote fuel caches have no secondary containment, contrary to the LUP, and it is only by luck that the barrels have not leaked. Approximately 65 full barrels (mixture of Jet B, P50 and Diesel) were found at (A), 11 barrels of P50 and a red 'tidy tank' at (B), and 3 berms with an unknown number of full barrels at the camp (C). At site (D) Mr. Pedersen found 10 full and 7 empty barrels. While the barrels at the camp were found within secondary containment, the cap on the central berm's port was left off, therefore nullifying the containment. Berm covers are now ripped by wind and weather, allowing water to accumulate (and leak out the open port). I could not tell whether there have been any leaks within the berm, however, I capped the port prior to departure. Another item of concern is the heating oil system. Heating oil is contained in two single-walled 1100L tanks in the middle of the camp. These tanks (which currently contain fuel) have no secondary containment, and are built into tall, narrow structures that could easily be pushed over by bears. The hard piping coming off the tanks could also be broken off, or broken at any point in the network of pipes that runs throughout the camp. I understand that this system was implemented due to frequent spills associated with individual barrel stands; however I don't think an ideal solution has been reached. While the system is not large enough to trigger Environment Canada's Storage Tank Systems for Petroleum Products and Allied Petroleum Products Regulations, I don't believe that due diligence has been exercised to prevent incidents when this system has been left unattended, particularly with fuel in it. Only one small spill kit was noted on-site.





3. The licence requires that the Licensee undertake progressive reclamation of components no longer required. Fuel caches (particularly expired fuel) and damaged facilities should be removed to prevent further spreading of waste or future spills.							
 Unprotected salt (CaCl) storage and lack of monitoring at the drill setup has resulted in a spill impacting the tundra. The Spill Contingency Plan has not been activated. 							
SECTION :	2	Comments	Non-Compli	ance with Act, Licence, or LUP	Action Required		
Water Lic	ence 2BE-M	 OU1419			_		
Part D Ite	m 6: Failure	to backhaul and disp	ose of hazardous waste				
Part E Iter	Part E Item 1: Materials are stored on the immediate banks of the lake.						
Part H Ite	m 4: Failure	to inspect fuel cache	s with sufficient freque	ncy.			
Part H Ite	m 5: Failure	to examine all fuel a	nd chemical storage cor	tainers with sufficient frequency	'.		
Part H Ite	m 4: Failure	to carry out progress	ive reclamation of the p	project components no longer red	quired.		
Land Use	Permit N20	11C0007					
Item 22: F	ailure to ma	aintain the land use a	rea in a clean state.				
			ainment for all fuels ass	ociated with this LUP.			
		amine all fuel storage	•				
Item 67: F	ailure to ma	ark all fuel storage fac	cilities with flags or othe				
SECTION	3	Comments	Non-Compli	ance with Act or Licence	Action Required		
	-		•	azardous waste on-site.			
2. Drill s	salt is to be i	moved into water- an	d weather-proof contai	nment or removed from site.			
	-				ent further spreading. Backfill the		
hole	with clean n	naterial. The spill and	l waste disposal measur	es are to be documented and rep	ported as per the Spill		
	ngency Plan						
			31m of the high water				
			rember 15 and a report	with photos of the completed w	ork submitted to the Inspector by		
	mber 30, 20						
-	_	=	·	•	tainment or double-walled tanks		
	·-			en not in use. This work is to be			
	-	•		n Plan are to be modified to inclu	·		
	heating fuel system (for temporary shut-down and preventing spills). These Addenda are to be submitted by March 31, 2015						
with the 2014 Annual Report.							
Licensee or Representative				Inspector's Name			
Not in attendance				Eva Paul			
Signature	Signature Signature						
				Sent electronically			
				Date 1.2 /00 /201 /			
- 12/09/2014							
Appraipiers. Minorestian Blotas Compile Bookity							
APPENDICES: Sample Results Other:							
Office Use Only: Follow-up report to be issued by Inspector Yes No							
CC:	CC: Phyllis Beaulieu, Manager of Licensing, NWB						

Erik Allain, Manager of Field Operations, AANDC

Tracey McCaie, Manager of Land Administration, AANDC

Baba Pedersen, Resource Management Officer, Kitikmeot Region, AANDC

