

WATER LICENCE INSPECTION FORM

Original	
Follow-Up Repor	ı

Licensee			Licensee Represent	ative	
Hamlet of Kimm	irut		Bhabesh Roy		
Licence No. / Expiry			Representative's Tit	tle	
3BM-KIM1929			Municipal Eng	gineer	
Land / Other Authorizati	ions		Land / Other Autho	rizations	
Date of Inspection			Inspector		
September 27, 2	021		Joseph Monte	eith	
Activities Inspected					
│	Drilling	Mining	☐ Construction	n Reclamation	☐ Fuel Storage
☐ Roads/Hauling	 -	er Source, Waste Water Facility, and Hazardous	Other:		
Conditions:	A- Acceptable	U-Unacceptable	C-Concern	NI-Not Inspected	NA- Not applicable
PART:				Condition	Observation No.*
A: SCOPE, DEFINITION	ONS AND ENFORCEME	NT		NA	
B: GENERAL CONDIT	TIONS			С	
C: CONDITIONS APP	LYING TO SECURITY			NI	
D: CONDITIONS APP	PLYING TO WATER US		А	1-6	
E: CONDITIONS APP	LYING TO WASTE DIS	POSAL AND MANAG	С	9-19	

PLANNING			
I: CONDITIONS APPLYING TO ABANDONMENT,	NI		
CLOSURE PLANNING			
J: CONDITIONS APPLYING TO MONITORING	NI		
SCHEDULES	Α		
* The observation nun	comments provided below		
Samples taken by Inspector: Location(s): N62° 50′ 06″ and		W69°52'04''	

ΝI

NΙ

	, ,	Non-Compliance with Act or Licence		.,	
☐ Yes ⊠ No					
Samples taken by Inspector:		Location(s): N62° 50′ 06′′ and W69°52′04′′			

(s._

BACKGROUND

SECTION 1

F: CONDITIONS APPLYING TO MODIFICATIONS

G: CONDITIONS APPLYING TO CONSTRUCTION

H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY

Comments (s.__)

ON May 27, 2019 Richard Dwyer, Manager of Licensing, Nunavut Water Board (NWB) sent Water Resource Officer (WRO) Joseph Monteith, Crown Indigenous Relations and Northern Affairs Canada(CIRNAC) a copy of Kimmirut's new Water Licence 2BE-KIM1929. The new water license is a type "B" water license and authorizes them to withdrawal 35,000 cubic metres annually. This withdrawal amount is an increase from 30,000 cubic metres annually, as the license extension is for 10 years.

Inspector Statement

On September 27, 2021, an inspection by Water Resource Officer (WRO) Joseph Monteith was conducted at the Hamlet of Kimmirut, Qikiqtani Region, Nunavut.

General Condition

On April 6, 2021, WRO Monteith received an email from Sylvia Ekelik, Licensing Administrative Assistant acknowledging receipt of the Hamlet of Kimmirut's 2020 Annual Report.

ftp://ftp.nwb-oen.ca/registry/2%20MINING%20MILLING/2B/2BE%20-%20Exploration/2BE-MRY1421%20Baffinland/3%20TECH/B%20GENERAL/2%20ANNUAL%20RPT/

Water Use and Related Structures

- 1. Water is being withdrawn from Fundo Lake(photo 1) from a water pumping station (photo 2).
- 2. The quantity of water withdrawn from the lake is being accounted for by calculating the amount of water being delivered. Water meter is broken
- 3. Road washing out, and into Fundo Lake (photo 3).



Action Required (s._

- 4. On November 16, 2021 The Senior Administrative Officer (SAO) Joseph Stephen Mabberi provided, WRO Joseph Monteith a copy of the water consumption rates for the Hamlet of Kimmirut for the Months of Delivery Summary By Month and Year Date range from Jan. 1, 2021 to Oct. 31, 2021. Grand total 15748619.31 Litres withdrawn from Fundo Lake (photo13).
- 5. At the time of the inspection, no evidence of drawdown from water use was evident at the lake.
- 6. A yellow triangle sign titled KIM1 indicting the location of a monitoring station was observed at the time of the inspection (photo 1).

Solid Waste Facility

- 7. The Hamlet deals with solid waste by burning the burnable waste, and capping the ash with gravel obtained by their gravel pit (photo 4).
- 8. The fencing did appear to be incomplete in its construction, and without maintenance and has become damaged and should be repaired.
- 9. During the inspection it was observed that the hazardous waste was located at two locations. The Solid waste facility which had the hazardous waste exposed to the elements (Photo 5). At the municipal garage Hazardous Waste is stored within sea cans behind the municipal garage. At the time of the inspection some of the hazardous waste was taken out the sea cans, so that sea-cans can be cleaned (Photo 7,8,&9).
- 10. The Hamlet of Kimmirut uses a waste oil burner to heat up the municipal garage. They store waste oil to use it for their oil burner (photo 10).
- 11. Garbage blown from the Solid Waste Disposal Facility was observed within the drainage ditch of the Wastewater Discharge Location. Tires were deposited to the site (photo 14).

Wastewater Discharge

- 12. Municipal Wastewater is being discharged at a location approximately 300 metres from the ocean (photo 12). The wastewater flows over land before it enters the ocean. During a discharge the wastewater runs along the ditch and mixes with the rainfall and fresh water run-off during the freshet while migrating down to fresh water ponds and streams that runs along the base of the mountain ahead its final deposit to the receiving marine environment.
- 13. There are two monitoring stations at the along the discharge route titled KIM 2 & 3 (photo 11). No sampling was conducted at the time of the inspection. Last sample taken on June 29, 2020
- 14. The estimated amount of sewage waste discharged is being recorded in the Hamlets "Water Consumption" document listed as "same". The estimates aren't accurate as it doesn't take into account all water withdrawn from the water source for water uses such as dust suppression, which cannot be calculated as the same amount discharged at the discharge location for waste water.

SECTION 2		Comments	\geq	Non-Compliance with Act or Licence		Action Required
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Non-Compliance related to the water license

Part C (6): The Licensee shall not cause erosion to the banks of any water body and shall provide necessary controls to prevent such erosion.

Part C (7): Sediment and erosion control measures shall be implemented prior to and maintained as required during Hamlet operations, to prevent entry of sediment into Water.

Non-Compliance with the Act

Nunavut Waters and Nunavut Surface Rights Tribunal Act Use of Waters

- 11. (1) Subject to subsection (2), no person shall use, or permit the use of, waters in Nunavut except in accordance with the conditions of a licence.
- (2) Subsection (1) does not apply in respect of
- (a) any unlicensed use of waters that is authorized by the regulations.
- (b) the use of waters
- (i) for a domestic purpose, or
- (ii) for the purpose of extinguishing a fire or, on an emergency basis, controlling or preventing a flood; or
- (c) The use of waters in a national park.
- (3) Where a person diverts waters for a purpose referred to in subparagraph (2)(b)(ii), the person shall, when the need for the diversion has ceased, discontinue the

diversion and, in so far as possible, restore the waters to their original channel.

Deposit of Waste

12. (1) Subject to subsection (2) and except in accordance with the conditions of a licence, no person shall deposit or permit the deposit of waste



	(a)) in	waters	in	Nunavut;	or
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(b) in any other place in Nunavut under conditions in which the waste, or any other waste that results from the deposit of that waste, may

enter waters in Nunavut.

- (2) Subsection (1) does not apply in respect of
- (a) any unlicensed deposit of waste that is authorized by the regulations; or
- (b) The deposit of waste in a national park.

Bring the non-compliance issues identified in the inspection into compliance by:

- -maintain and complete the construction of fencing to contain all wastes permanently in the Solid Waste Facility;
- -install signage to notify the public that there are dangerous hazardous wastes on site;
- -consider an amendment to the water license to have all hazardous waste stored at the Municipal Garage;
- -build a berm to limit the amount of water entering in the hazardous waste facility, and taking the hazardous waste with it;
- -install Spill Kits next to the hazardous waste facility to properly clean up spills;
- -consider building a trench to mitigate the road from washing out at KIM 1 monitoring station, and the deposit of sediment into Fundo Lake.

Licensee or Representative	Inspector's Name
Bhabesh Roy	Joseph Monteith
Signature	Signature
Date	Date
	November 12, 2021

CC: Licensing Department, NWB

Justin Hack, Manager of Field Operations, INAC

PHOTO LOG

11101010			
Date	Camera	Inspector	
June 30, 2020	Nikon Coolpix	Joseph Monteith	
Photo Log #		Location	
Photo 1		Kimmirut, NU	















Description: Burn and cap of domestic garbage. No fencing around this section of the solid waste facility. Wind blown garbage blown across site of sewage discharge. Burn Garbage was capped between 2020, and 2021 to help mitigate the windblown debris.

Photo Log	Location
Photo 5	Solid Waste Facility, Kimmirut, NU





Description: With the exception of domestic burning and capping waste, all other waste such as bulk wood, bulk metal, hazardous waste, and gravel have been deposited into the pile along the road. The trench the direct any leachate from the pile was covered as directed in 2020.



Photo Log	Location
Photo 7	Municipal Garage, Kimmirut, NU





Description: Sea cans filled with Hazardous waste drums of used oil.



Description: some hazardous waste stored outside, exposed the outside elements. Used to fuel the oil burner in the municipal garage. Wall doesn't appear to be able to contain any liquid wastes

Photo Log	Location
Photo 9	Municipal Garage, Kimmirut, NU







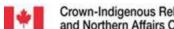


Photo Log

Photo 11

Sewage Discharge, Kimmirut, NU





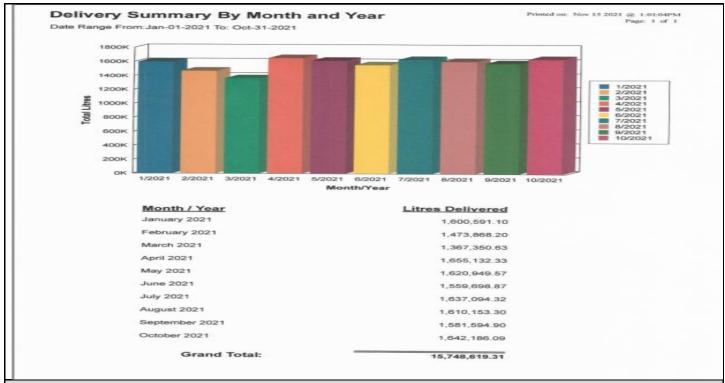


Description: Monitoring Stations "KIM 2 & KIM 3", wind blown garbage carpet the sewage drainage ditch.



Kimmirut, NU





Description: Delivery Summary By Month and Year – Date range from Jan. 1, 2021 to Oct. 31, 2021. Grand total 15748619.31 Litres withdrawn and delivered to Municipal clients.

