

# WATER LICENCE INSPECTION FORM

$\boxtimes$	Original	
	Follow-Up	Report

Licensee Represen			tative				
Hamlet of Hall Beach Bhabesh F				Bhabesh Roy			
Licence No. / Expiry	Representative's T	itle					
3BM-HAL1520			Municipal Er	ngineer			
Land / Other Authorization	ons		Land / Other Auth	orizations			
Date of Inspection			Inspector				
July 11, 2018			Joseph Mon	teith & Jonath	an Mesher		
Activities Inspected	□ - ····						
☐ Camp☐ Roads/Hauling	☐ Drilling ☐ Other: Potable Wate	Mining  Nasta Water	Constructi	on L Rec	clamation	☐ Fuel Storage	
Noaus/Hauling	Treatment Facility, and S		☐ Other.				
		·					
Conditions:	A- Acceptable	U-Unacceptable	C-Concern	NI-Not Inspe	cted NA	- Not applicable	
PART:				Item No.*	Condition	Observation No.*	
A: SCOPE, DEFINITIO	NS AND ENFORCEME	NT			Α		
B: GENERAL CONDITI					Α		
C: CONDITIONS APPL	YING TO SECURITY				NI		
D: CONDITIONS APP	LYING TO WATER USE	Ē		1-3	А		
E: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT				4-14	С		
F: CONDITIONS APPL	YING TO MODIFICATI	ONS			NI		
G: CONDITIONS APPLYING TO CONSTRUCTION					NI		
H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY					Α		
PLANNING							
I: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND				NA			
CLOSURE PLANNING							
J: CONDITIONS APPLYING TO MONITORING				Α			
SCHEDULES				Α			
*The item number	r corresponds with sp	ecific conditions with	in the licence an	d the observation	number corres	ponds with specific	
comments provided below.							
Location(s): Latitude: 69°23'N and			ongitude: 81°46′	W Coordinates	takes you into the		
Samples taken by Inspector: ocean around Fury and Hecla Strait							
☐ Yes ☒ No							

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

## **BACKGROUND**

The Hamlet of Hall Beach (Hamlet), with an estimated population of 829 (2010), is located on the western shore of Foxe Basin within the Qikiqtani Region of Nunavut.

The Hamlet owns and operates several municipal facilities aimed at providing relevant services to the residents of the community including a potable Water Supply Facility (WSF), Solid Waste Disposal Facility (SWDF), and a Sewage Disposal Facility (SDF). The Hamlet is authorized for 70,000 cubic metres of water for community use and up to a maximum of 35,000 cubic metres annually.

The Hamlet shares the same Potable Water Source with the Department of National Defence – North Warning Sites.

## **Inspector Statement**

On July 11, 2018, a water licence was conducted at the Hamlet of Hall Beach, Qikiqtani Region, Nunavut.

## **Water Use Related Structures**

- 1. Water withdrawal is conducted from South Lake to the Water Storage Reservoir. The Water from South Lake is recharged by opening up a gate on a dyke which is also a man-made reservoir. The Storage Reservoir has a capacity of 60,000 cubic metres (See Photo #1).
- 2. At the time of the inspection a yellow triangle sign was observed titled HAL 1 at the pump house of the water treatment facility indicating a monitoring site.
- **3.** The water reservoir appeared to be working as intended.
- **4.** Two pumping stations at the Water Storage Reservoir. One for community, and another for the North Warning Site.



- 5. It was suggested that the flow metre wasn't working at the time of the inspection. But, upon closer inspection the flow metre appeared to be working, and used to record usage amounts. At the time of the inspection the flow metre read 3,387,299.9 Litres, and the logs read the same amount as of July 11, 2018 on the log sheet (See Photo #2 & 3). The monthly water consumption report recorded 3,026,455.7 Litres used for the month of July in 2018.
- 6. On October 25, 2018, William Koonoo, Municipal Technical Clerk, Government of Nunavut (GN), Community Government and Services (CGS) emailed WRO Monteith the Water Consumption records for Hall Beach for January 2018, to September 2018 which showed a total amount of 25,321,989.3 Litres. Well below their authorized amount listed in the water licence (See Photo #4).

#### **Water Treatment Facility**

- 7. The Water Treatment Facility consists of two cells. Cell #1 is the south side cell of the two; whereas, Cell #2 is the north side of the two cells.
- **8.** The fencing looked like it was operating as intended, but the base of the fencing looked as if it was causing some structural damage to the lagoon walls, this may need to be maintained and should be monitored (See Photo #5).
- **9.** The freeboard was in good standing above 1 metre.
- 10. A leak was observed at the South East corner of Cell # 1 at the time of the inspection (See Photo #6). A spill report was requested to be submitted. On August 3, 2018 at 14:47 a Spill Report Spill 2018309 was submitted to the Spill Line as per Part B: Subsection 6. On October 2, 2018 Bhabesh Roy, Community and Government Services Municipal Planning Engineer had emailed WRO Monteith with a document attached which had stated that since a leak was found, CGS created a mitigation measure to use until the damage to the sewage lagoon walls can be repaired. The plan was to use Cell #2 until it reached capacity and then to deposit sewage into Cell # 1 when full and, to submit a spill report if any signs of spills are observed (See Photo #7).

#### **Solid Waste Facility**

- 11. The Solid Waste Facility located next to the Water Treatment Facility segregates their waste into metals, burnable waste, hazardous waste, and woods. There was solid waste deposited next to a lake North West of the sewage lagoon, that site is under remediation, and was being supervised by a consultant from EXP Services Inc. (See Photo #8). At the time of the inspection, it was observed that the berms were compromised, but upon discussion with the consultant on site, he had fixed up the berms so that no contact with the waste and the water would take place (See Photo #9).
- 12. Fencing requires maintenance around burnable waste section. (See Photo #10).
- **13.** Some hazardous waste is located in the Bulk Metal Storage section. This should be removed and segregated appropriately. (See Photo #11).
- **14.** The Hazardous Waste section appears to be bermed but not lined. Further inspection to verify whether it is lined is required. Hazardous Waste is segregated, exposed to the elements. But, no signs of water pooling, seepage, or ground instability (See Photo #12).

SECTION 2	Comments	Non-Compliance with Act or Licence	Action Required		
-Maintain fencing base at the sewage lagoon (see Photo # 5) -Maintain fencing at burnable waste facility (see Photo #10)					
-Remove hazardous waste from bulk metal storage facility ( see Photo #11)					
SECTION 3	Comments	Non-Compliance with Act or Licence	Action Required		
Click here to enter text.					

Licensee or Representative	Inspector's Name
Bhabesh Roy	Joseph Monteith
Signature	Signature
	1-d A.J.T.
Date	Date
	November 15, 2018





Licensing Department, NWB

Justin Hack, Manager of Field Operations, INAC

PHOTO LOG







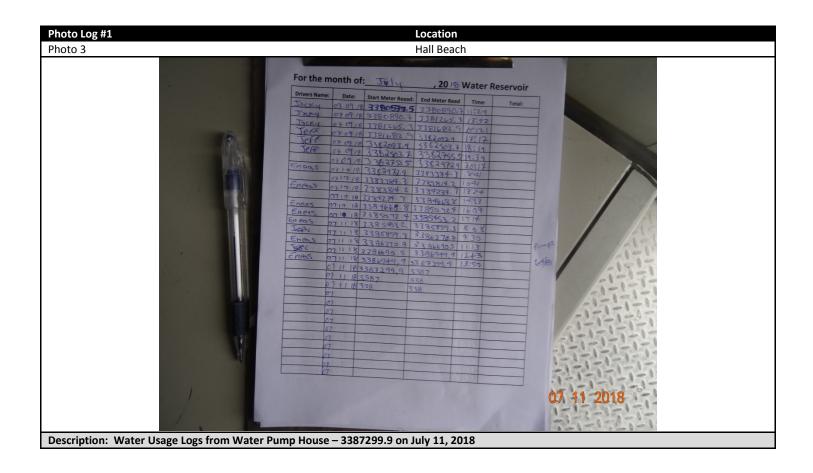


Photo Log #1			cation		
Photo 4	Hall Beach				
	MONTHLY WATER CONSUMPTION REPORT FOR THE HAMLET OF HALL BEACH, NUNAVUT  Month and Year Being Reported: January to September, 2018				
	Month Reported	Quantity of Water Obtained from all Sources (Litres)	Quantity of Sewage Waste Discharged (Estimated)		
	January 2018	2,831,103.50	Same	]	
	February 2018	2,588,072.40	Same	]	
	March 2018	2,883,195.2	Same	]	
	April 2018	2,735,222.4	Same	]	
	May 2018	3,003,232.2	Same	]	
	June 2018	2,699,500.9	Same	]	
	July 2018	3,026,455.7	Same		
	August	2,842,430.7	Same		
	September	2,712,776.3	Same	]	
				]	
Description: Water Usage Report – S	Shows a total amoun	t of 25,321,989.3 Liti	res between Jan. – Sept. 2	018	









