



WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

Licensee	Licensee Representative
Depart of National Defence	Sarah Rahmer
Licence No. / Expiry	Representative's Title
8BC-NNF1920	Environmental Coordinator
Land / Other Authorizations	Land / Other Authorizations
Date of Inspection	Inspector
July 18, 2019	Joseph Monteith
Activities Inspected	
<input checked="" type="checkbox"/> Camp	<input type="checkbox"/> Drilling
<input type="checkbox"/> Roads/Hauling	<input type="checkbox"/> Mining
	<input type="checkbox"/> Construction
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Fuel Storage
	<input type="checkbox"/> Other:
	<input type="checkbox"/> Other:

Conditions:	A- Acceptable	U-Unacceptable	C-Concern	NI-Not Inspected	NA- Not applicable
PART:	Condition	Observation No.*			
A: SCOPE, DEFINITIONS AND ENFORCEMENT	A				
B: GENERAL CONDITIONS	A				
C: CONDITIONS APPLYING TO SECURITY	NI				
D: CONDITIONS APPLYING TO WATER USE	A	1-4, 12			
E: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT	A	5-11			
F: CONDITIONS APPLYING TO MODIFICATIONS	NI				
G: CONDITIONS APPLYING TO CONSTRUCTION	NI				
H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY PLANNING	A	13			
I: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND CLOSURE PLANNING	NA				
J: CONDITIONS APPLYING TO MONITORING	NI				
SCHEDULES	A				
*The observation number corresponds with specific comments provided below.					
Samples taken by Inspector:	Location(s): 73° 4’ 01.09” N Longitude: 84° 32’ 49.9” W (Camp)				
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

SECTION 1	<input type="checkbox"/> Comments (s. __)	<input type="checkbox"/> Non-Compliance with Act or Licence (s. __)	<input type="checkbox"/> Action Required (s. __)
BACKGROUND			
<p>As part of an initiative to increase Canadian military presence in Arctic Waters, the Department of National Defence (DND or the Applicant or the Proponent) proposes to construct and operate a naval facility near the Hamlet of Arctic Bay, Nunavut. The Nanisivik Naval Facility (NNF or the Project) will consist of a deep-Water berthing and refueling station that will serve the Arctic/Offshore Patrol Ships (AOPS) Project, Royal Canadian Navy and other government vessels.</p> <p>The Construction Phase of the NNF Project, which is expected to last four (4) years, will commence with site preparation activities in 2014; however, most of the construction activities will be carried out during the period of 2015-2017. Following commissioning, which is anticipated to occur sometime in 2018, the facility will operate seasonally between July and October, inclusively, and shut down for the remaining period in the year, during which on-site support will be provided on an as-needed basis.</p> <p>On July 22, 2019 the Nunavut Water Board Issued the Department of National Defence a renewal Class “B” Water Licence 8BC-NNF1920 for the construction of the Nanisivik Naval Facility Project at Nanisivik, Qikiqtani Region, Nunavut for the use of water and deposit of waste. The licences allow, and shall not exceed the following, 1200m³ per year or 299m³ per day for domestic and industrial purposes.</p>			
Inspector Statement			
<p>On July 18, 2019 at 3:19pm, A Water Licence Inspection was conducted by Water Resource Officer (WRO) Joseph Monteith at Nanisivik, Qikiqtani Region, Nunavut, for water licence water licence 3BC-NNF1418. The inspection was complete on July 18, 2019 at 6:16pm.</p>			
General Condition			
<p>On April 1, 2019 Richard Dwyer, Manager of Licencing, Nunavut Water board sent Water Resource Officer(WRO) Joseph Monteith a copy of the Department of National Defence’s 2018 Annual Report.</p>			



Water Supply

- 1. The Nanisivik Naval Facility withdraws water using two water trucks (photo 2) to withdrawal from 2 sites at Twin Lakes Creek (Photo 3 & 4) for domestic and industrial purposes for the construction and operation phases of the project. They fill up the trucks until they are full. All water withdrawal for purposes of camp construction has stopped. Water is only obtained from the community water supply.
- 2. The water is held in a water storage tank located in a sea can next to the living quarters building (photo 5 & 6)
- 3. The licensee used heavy equipment at twin lakes creek, and caused rutting to the banks of the water body without necessary controls to prevent erosion (photo 7).
- 4. When gravel was placed down at twin lakes creek, it caused sediment to enter Twin Lakes Creek(photo8)

Waste Disposal

- 5. No waste water disposal occurred at Nanisivik Naval Facility during the 2018 field season. Sewage was disposed of through the Community of Arctic Bay into their wastewater facility.
- 6. Solid and hazardous waste that was not suitable for recycling or incineration was packaged and shipped for disposal in the south.
- 7. A hazardous Waste station was observed on site, in secondary containment, exposed to the elements.
- 8. An Incinerator was observed on site, no signs of metal in incinerator, or hazardous material (photo 9).
- 9. Hazardous Waste Station – Secondary Containment observed. Station exposed to the elements (Photo 10).
- 10. A sump pit was observed (photo 11).
- 11. Concrete settling tub. Water withdrawal for industrial use was at 2nd Water withdrawal site used for concrete making (photo 12).

Water Consumption Reports

- 12. On April 1, 2019 Richard Dwyer, Manager of Licencing, Nunavut Water board sent Water Resource Officer(WRO) Joseph Monteith a copy of the Department of National Defence’s 2018 Annual Report. In the Annual report it showed the quantity of water used for Domestic and Industrial use. In their annual report they reported an exceedance in the total quantity of water use for industrial use at 850m³ a year. They are authorized for 1200m³ a year. Further to this, they were authorized a combined volume of 1048m³ DRDC exceeded that amount by 1360m³.

Spills

- 13. Numerous minor spills were observed on site. A review of the spills database shows no spills were reported (photos 8, 13 & 14, 16).

SECTION 2	<input type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
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Do the following items below to bring yourself back into compliance:

-clean up the spills observed around the sites;

-report the spills observed in inspection report, and any other spills not observed in the inspection;

-in future, report all spills to the Spills Database as per Part H: Item 7.

SECTION 3	<input type="checkbox"/> Comments	<input checked="" type="checkbox"/> Non-Compliance with Act or Licence	<input type="checkbox"/> Action Required
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Non-Compliance with the terms and conditions of Water Licence 8BC-NNF1418:

Part H: Item 7

The Licensee shall, in addition to Part H, Item 5, regardless of the quantity of releases of harmful substances, report to the NWT/NU Spill Line if the release is near or into a Water body.

Licensee or Representative	Inspector's Name
Signature	Joseph Monteith
Date	Signature
	Date
	May 1, 2019

CC: Licensing Department, NWB
Justin Hack, Manager of Field Operations, CIRNAC



PHOTO LOG

Date	Camera	Inspector	
July 18, 2019	Nikon Cool Pix	Joseph Monteith	
Photo Log #	Location		
Photo 1	Nanisivik		
			
Description: 2018 photo of Nanisivik Naval Facility			

Photo Log #	Location
Photo 2	Nanisivik
<div><div></div><div></div><div></div></div>	
Description:1 x Water Truck	



Location

Nanisivik

Description: Water storage Tank

Location

Nanisivik

Description: Water Log



Photo Log #	Location
Photo 5	Nanisivik
	
Description: Water Storage Tank #1	

Photo Log #	Location
Photo 6	Nanisivik
	
Description: Water Storage Tank #2, with water pump	



Photo Log #	Location
Photo 7	Nanisivik
	
Description: altered banks of the Twin Lakes Creek – historic rutting observed in 2018- heavy equipment accessed Twin Lakes Creek	

Photo Log #	Location
Photo 8	Nanisivik
	
Description: all equipment historically stored near the water body were removed	



Photo Log #

Location

Photo 9

Nanisivik



Description: Incinerator – Lots of signs of metal burnt in incinerator

Photo Log #

Location

Photo 10

Nanisivik



Description: hazardous Waste station – hazardous waste barrels in secondary containment in sea can encapsulated from the outside elements.



Photo Log #	Location
Photo 11	Nanisivik
	
Description: Fuel Cache site – in non engineered berm.	

Photo Log #	Location
Photo 12	Nanisivik
	
Description: Numerous Quatrex bags with contaminated soil	



Photo Log #	Location
Photo 13	Nanisivik
	
Description: Minor Spill, no spill reports has come out of the Nanisivik Naval facility	

Photo Log #	Location
Photo 14	Nanisivik
	
Description: Minor Spill next to twin creek	

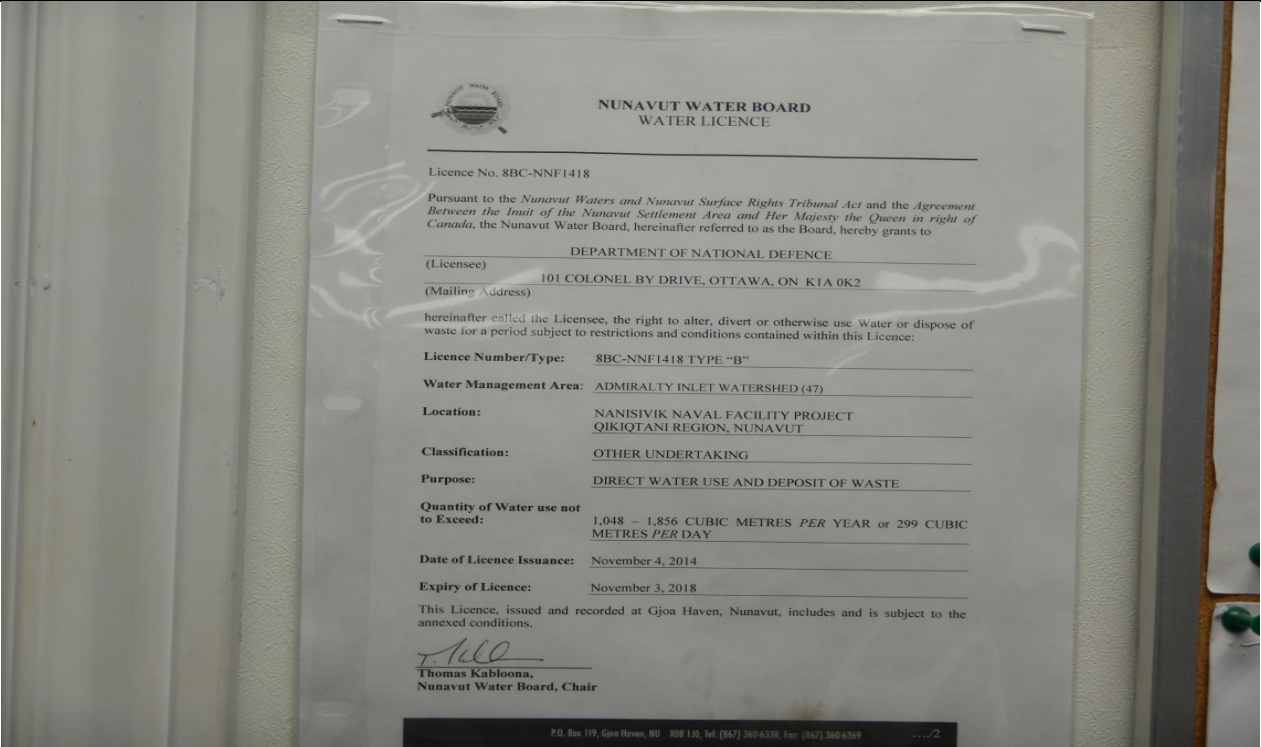


Photo Log #

Location

Photo 15

Nanisivik



Description: Copy of licence

Photo Log #

Location

Photo 16

Nanisivik



Description: hornet abrasive – CAS Number 14808-60-7 – Health Hazard

