

WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

Licensee	Licensee Representative
Department 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
August 16, 2020	Joseph Monteith
Activities Inspected	
<div><div><input checked="" type="checkbox"/> Camp</div><div><input type="checkbox"/> Drilling</div><div><input type="checkbox"/> Mining</div><div><input type="checkbox"/> Construction</div><div><input type="checkbox"/> Reclamation</div><div><input type="checkbox"/> Fuel Storage</div></div> <div><div><input type="checkbox"/> Roads/Hauling</div><div><input checked="" type="checkbox"/> Other:</div><div><input type="checkbox"/> Other:</div></div>	

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, 10
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	11
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 August 16, 2020 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 August 16, 2020 at 6:16pm.</p> General Condition			



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.

Water Supply

1. The Nanisivik Naval Facility withdraws water using two water trucks (photo 2) to withdrawal from Arctic Bay 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. And only retrieve water for domestic purposes. But, due to COVID-19 restrictions, no activity was conducted in 2020.
2. The water is held in a water storage tank located in a sea can next to the living quarters building (photo 4)
3. The licensee used heavy equipment at twin lakes creek, and fixed up the rutting to the banks of the water body (photo 6 & 7).

Waste Disposal

4. 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.
5. A Waste station was observed on site (photo 8).
6. An Incinerator was observed on site, no signs of metal in incinerator, or hazardous material (photo 5).
7. A sump pit was observed (photo 3).
8. Numerous Quatrex bags with contaminated soil, packaged to be shipped out (photo 10).

Fuel Cache

9. A fuel Cache was observed on site (Photo 9)

Water Consumption Reports

10. 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

11. Numerous minor spills were observed on site. A review of the spills database shows a few spills were reported since my August 16, 2020 inspection (photos 11, 12, 13).

SECTION 2

☐ Comments

☐ Non-Compliance with Act or Licence

☒ Action Required

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

☐ Comments

☒ Non-Compliance with Act or Licence

☐ Action Required

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
	Joseph Monteith
Signature	Signature
Date	Date
	August 22, 2020

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

PHOTO LOG

Date	Camera	Inspector	
August 16, 2020	Nikon Cool Pix	Joseph Monteith	
Photo Log #	Location		
Photo 1	Nanisivik, Qikiqtani Region, Nunavut		



Description: Buildings that house the construction crew. No occupants, seasonal shutdown due to COVID-19 restrictions.

Photo Log #	Location
Photo 2	Nanisivik, Qikiqtani Region, Nunavut





Description: Vehicles in storage

Photo Log #

Photo 3

Location

Nanisivik, Qikiqtani Region, Nunavut



Description: Grey Water Sump Pit.

Photo Log #

Photo 4

Location

Nanisivik, Qikiqtani Region, Nunavut



Description: 2 x Water Storage Tanks in sea can. Locked due to seasonal shutdown

Photo Log #	Location
Photo 5	Nanisivik, Qikiqtani Region, Nunavut
<div></div>	
Description: Water Storage Tank #2, with water pump	


Photo Log #	Location
Photo 6	Nanisivik, Qikiqtani Region, Nunavut
<div></div>	
Description: Site of monitoring station at Twin Creeks. New gravel put down.	

Photo Log #	Location
Photo 7	Nanisivik, Qikiqtani Region, Nunavut
<div><div>16.08.2020 13:33</div></div>	
Description: all equipment historically stored near the water body were removed	

Photo Log #	Location
Photo 8	Nanisivik, Qikiqtani Region, Nunavut
<div><div>16.08.2020 13:33</div></div>	
Description: Waste storage bins	



Photo Log #	Location
Photo 9	Nanisivik, Qikiqtani Region, Nunavut



Description: Fuel Cache site – in non engineered berm.

Photo Log #	Location
Photo 10	Nanisivik, Qikiqtani Region, Nunavut



Description: Numerous Quatrex bags with contaminated soil, packaged to be shipped out.



Photo Log #	Location
Photo 11	Nanisivik, Qikiqtani Region, Nunavut



16.08.2020 13:30

Description: Minor Spill, Spill reports has come out of the Nanisivik Naval facility during the COVID-19 shutdown.

Photo Log #	Location
Photo 12	Nanisivik, Qikiqtani Region, Nunavut



16.08.2020 13:36

Description: Frequent observations of minor spills coming from stored vehicles. Spill Reports for these spills were reported.



Photo Log #	Location
Photo 13	Nanisivik, Qikiqtani Region, Nunavut
	
Description: hornet abrasive – CAS Number 14808-60-7 – Health Hazard	