

WATER LICENCE INSPECTION FORM

☒ Original

☐ Follow-Up Report

Licensee		Licensee Representative	
Department of National Defence		Tamara van Dyck	
Licence No. / Expiry		Representative's Title	
8BC-NNF1418		Coordinator, Environmental Services	
Land / Other Authorizations			
None			
Date of Inspection		Inspector	
July 20, 2016		Justin HACK	
Activities Inspected			
<input type="checkbox"/> Camp/Municipality	<input type="checkbox"/> Drilling	<input type="checkbox"/> Mining	<input type="checkbox"/> Construction
<input type="checkbox"/> Roads/Hauling	<input type="checkbox"/> Other:	<input type="checkbox"/> Reclamation	
		<input type="checkbox"/> Fuel Storage	
		<input checked="" type="checkbox"/> Other: Activities related to Water Treatment	

Conditions: **A - Acceptable** **C - Concern** **U – Unacceptable** **NA – Not Applicable** **NI – Not Inspected**

Water Use		Condition	Comment	Site Conditions	Condition	Comment	Haz/Mat Management	Condition	Comment
Intake/Screen	NA			Water Management Structures	A		Storage	A	
Flow Measure. Device	A			Culverts / Bridges	A		Spills	A	
Source:	A			Drainage	A		Spill Plan	A	
Water Use:	A			Erosion / Sediment	A				
Recirculation (y /n)	NA			Mitigation Measures	A		Administrative		
				Reclamation Activities	NA		Records	NA	
				Materials Storage	A		Reports	NI	
Waste Disposal				Signage	A		Plans	NI	
Waste Water	A						Notifications	A	
Solid Waste	A			Monitoring			Other		
Hazardous Waste	A			Sample Collection / Analysis	NI				
<i>*The number in the comments field will correspond with specific comments provided below.</i>									
Samples taken by Inspector:				Location(s):					
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No									

SECTION 1	<input checked="" type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input type="checkbox"/> Action Required
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Background

On November 4, 2014, the Department of National Defence (DND) was issued a water licence by the Nunavut Water Board. This water licence is to allow DND to use water and discharge wastes at a naval facility near the Hamlet of Arctic Bay. DND is specifically allowed to use 1,0481,856 cubic metres per year or 299 cubic meters of water per day for domestic purposes and for industrial purposes from East Twin Lake and/or Twin Lakes Creek. Furthermore, this licence allows the Licensee to discharge waste water from the sewage treatment facility and from the Bulk Liquids Storage Area as long as the water meets certain effluent quality criteria.

Inspectors Statement

On July 20, 2016 an inspection of the uses of water and the discharge of waste to water, or the deposit of waste under conditions in which waste may enter water, was conducted. Tamara Van Dyck, Environmental Coordinator, and Louis Lemay, Project Manager, accompanied the inspector during the inspection.

No concerns with the operation of this site were noted.

Inspection

Direct Water Use:

1.

At the time of the inspection, water was being withdrawn only from Twin Lakes Creek. The pump, which was located approximately 2m from the creek, was in secondary containment.

2.

This water was being used for the purposes of washing gravel prior to its use in construction activities, and was being used for concrete manufacturing.

3.

All water withdrawn from this source was being accounted for at the time of inspection and records were in order.

4.

No water was being withdrawn from any approved sources for the purpose of domestic use. DND was receiving its waters for domestic purposes from the Hamlet of Arctic Bay.

Culverts:

5.

Culverts controlling surface water appeared to be installed as designed with proper armouring to prevent sedimentation.



Water Management Structure:

- 6. A temporary water management structure was constructed surrounding the gravel washing and concrete manufacturing location to prevent any wastes from being discharged from this area, in accordance with Part H, of the Water Licence.
- 7. No concerns with the structure of the facility at the time of the inspection.

Waste Deposits and Discharges

- 8. No waste water was being discharged from site during the inspection.
- 9. Sewage generated on site is being trucked back to the Hamlet of Arctic Bay for treatment.
- 10. Effluent from the water management structure (being used to contain water from the gravel washing and concrete manufacturing) was being discharged to the ocean when required.
- 11. The banks of Twin Lakes Creek were inspected to determine if the project area was having any potential detrimental on the water within the creek. There was no concern related to the interaction between the project area and this stream.

Material Storage

- 12. At the time of the inspection, some construction materials were being stored within 31m of Twin Lakes Creek.
- 13. DND has provided follow-up confirmation that this material was removed and is being stored in accordance with their water licence.

SECTION 2

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Comments

☐

Non-Compliance with Act or Licence

☐

Action Required

Click here to enter text.

Inspector's Name

Justin Hack

Signature

Date

September 21, 2016