



WATER LICENCE INSPECTION FORM

☒ Original
☐ Follow-Up Report

Licensee	Licensee Representative
Department of National Defence	Ian Creighton
Licence No. / Expiry	Representative's Title
3BC-FOD0919	Major
Land / Other Authorizations	Land / Other Authorizations
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Date of Inspection	Inspector
Sept 9, 2015	Justin HACK
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: Culvert
	<input type="checkbox"/> Other: Bridge

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	A		Water Management Structures	A		Storage	A	
Flow Measure. Device	A		Culverts / Bridges	NA		Spills	C	5
Source:	A		Drainage	A		Spill Plan	A	
Water Use:	A		Erosion / Sediment	C	4			
Recirculation (y /n)	N		Mitigation Measures	A		Administrative		
			Reclamation Activities	A		Records	A	
			Materials Storage	A		Reports	A	
Waste Disposal			Signage	A		Plans	A	
Waste Water	A					Notifications	A	
Solid Waste	A		Monitoring			Other		
Hazardous Waste	A		Sample Collection / Analysis	NI				
*The number in the comments field will correspond with specific comments provided below.								
Samples taken by Inspector:			Location(s):					
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No								

SECTION 1	<input checked="" type="checkbox"/> Comments (s.1)	<input type="checkbox"/> Non-Compliance with Act or Licence (s.__)	<input type="checkbox"/> Action Required (s.__)
Background			
<p>Nunavut Water Licence 3BC-FOD0919 was issued to the Department of National Defence for the Direct Use of Water and the Deposit of Waste for the operation and maintenance of the FOX-3 Long range Radar Station located north of Dewar Lakes on Baffin Island, Qikiqtani Region, Nunavut.</p> <p>The licence allows for the use of 1440m³ of water per year, so long as the source water body is not drawn down, and it allows for the deposit of sewage to a sump. No other uses of water or deposits of waste are authorized without appropriate approvals.</p> <p>Observations</p> <p>A site inspection was completed on September 9th, 2015 to verify the activities related to the authorized uses of water and deposits of waste at FOX-3.</p> <p>Direct Water Use</p> <p>1. It was noted that all water for domestic camp purposes was being withdrawn from Water Lake using a water truck.</p> <p>a. No indication of drawdown was evident at Water Lake.</p> <p>b. Water records were available for inspection.</p> <p>Water Management Structures</p> <p>2. Berm surrounding horizontal fuel tanks near Airport Garage</p> <p>a. Berm wall surrounding the facility were sufficient. No signs of settlement, slope instability or seepages were noted.</p> <p>b. There was ~2 feet of water within the berm and there was a small visible sheen of hydrocarbon on it. Please ensure this water is tested and proper notification is provided before discharge.</p> <p>c. Freeboard height was sufficient.</p> <p>3. Berm surrounding tank farm at FOX-3 Campsite</p> <p>a. Berm wall surrounding the facility were sufficient. No signs of settlement, slope instability or seepages were noted.</p> <p>b. There was ~2 feet of water within the berm. Please ensure this water is tested and proper notification is provided before discharge.</p> <p>c. Freeboard height was sufficient.</p> <p>Erosion/Sediment</p> <p>4. Airport</p> <p>a. There are significant levels of erosion occurring on the west side of the airport runway.</p> <p>This area should be armoured and monitored to prevent further sedimentation into water.</p>			



Spills

5. *Historical Spills*

a. Two historical spills remain on site that are of concern.

i. After speaking with the representative on site, one spill was caused from a helicopter crash and the other from a pipeline breach. The spills have occurred a couple years ago and the contaminated soil was placed in black mega bags near the site of the spill.

ii. The soil remains in the black mega bags; however, there currently is no plan in place to remove or remediate the soil.

iii. A plan is requested from DND to address these spills to prevent the risk of them contaminating water. It is requested that this plan be developed and submitted with your annual report.

Waste Disposal/Discharges

6. *Sewage Outfall*

a. Black and grey water is being discharged via a pipeline to a sump as intended and then flows over a significant amount of land before it may enter any water.

b. This activity is being managed as intended.

c. No concerns.

7. *Domestic Waste*

d. It was noted that all domestic waste is being transported offsite.

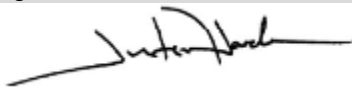
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SECTION 2

☐ Comments (s. 2_)

☐ Non-Compliance with Act or Licence, (s. __)

☐ Action Required (s. __)

Licensee or Representative	Inspector's Name
	Justin Hack
Signature	Signature
	
Date	Date
	November 9, 2015

Office Use Only:

Follow-up report to be issued by Inspector

☐ Yes ☒ No