



WATER LICENCE INSPECTION FORM

☒ Original
☐ Follow-Up Report

Licensee		Licensee Representative	
AANDC Contaminated Sites		Bob Johnson, Delta Engineering	
Licence No. / Expiry		Representative's Title	
1BR-CLR1419		Contractor	
Land / Other Authorizations		Land / Other Authorizations	
N2013U0028			
Date of Inspection		Inspector	
16/07/2014		Eva Paul	
Activities Inspected			
<input checked="" type="checkbox"/> Camp	<input type="checkbox"/> Drilling	<input type="checkbox"/> Mining	<input type="checkbox"/> Construction
<input type="checkbox"/> Roads/Hauling	<input type="checkbox"/> Other:	<input type="checkbox"/> Other:	<input checked="" type="checkbox"/> Reclamation
			<input checked="" type="checkbox"/> Fuel Storage

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	C	2		Storage	A		
Flow Measure. Device	A			Culverts / Bridges	NA			Spills	A		
Source:	A			Drainage	U	2		Spill Plan	A		
Water Use:	A			Erosion / Sediment	A						
Recirculation (y /n)	NA			Mitigation Measures	A			Administrative			
				Reclamation Activities	A			Records	A		
				Materials Storage	A			Reports	NA		
Waste Disposal				Signage	NA			Plans	U	5	
Waste Water	U	1						Notifications	C	4	
Solid Waste	A			Monitoring		Other					
Hazardous Waste	C	2		Sample Collection / Analysis	U	3		Engineered Drawings	U	5	
*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 checked="" type="checkbox"/> Non-Compliance with Act or Licence (s.2)	<input checked="" type="checkbox"/> Action Required (s.3)
<p>An inspection as conducted on July 16 2014 to verify compliance with the project’s water licence and land use permit. I was met on-site by Bob Johnson of Delta Engineering, contractor for AANDC. The project consists of the removal of a historic weather station from a small island on Contwoyto Lake. The company established a small camp, land farm, and fuel cache on the island to support the reclamation. Inspection findings are as follows:</p> <ol style="list-style-type: none">At the time of the inspection, the camp was operating on a zero-discharge basis, as the on-site water treatment system approved in the licence was not brought to site. Instead, all human waste and grey-water was containerized. However, no contact water to my knowledge was being collected from site activities (including excavations of contaminated areas) as required by the licence.While most hazardous waste was well-managed (lead, PCB’s and ash contained in a sea-container placed within a lined berm), my concern arose from the landfarm. The landfarm was built by pushing aside the vegetation from a sandy esker, and no liner was placed. Hydrocarbon-impacted soils were placed in the landfarm. At the time of the inspection, fertilizer was being spread on the piles of soil, and it was raining heavily. It had rained in the area for several days. At the time I left site, it appeared that the piles of soil had been flattened or moved to form the walls of the landfarm.No monitoring wells were installed, no sumps were in place to collect contact water, and the nature of the soil (sandy and well-drained) likely permits most contact water to permeate into the esker. As such, no sampling was conducted on contact water to determine whether it met licensed discharge criteria. Mr. Johnson notified me that the monitoring wells were installed following the inspection.To my knowledge no water was collected or tested, and no notifications for discharge were submitted to the Inspector.Engineered drawings (pre-construction and as-built) of the Landfarm were not submitted to the NWB as required by the Licence, nor does a QA/QC plan appear in the public registry.			
SECTION 2	<input type="checkbox"/> Comments	<input checked="" type="checkbox"/> Non-Compliance with Act or Licence	<input type="checkbox"/> Action Required
<p>Part B Item 2: Failure to notify the NWB of changes to operational plans.</p> <p>Part B Item 4: Failure to implement plans as approved.</p> <p>Part D Item 11: Failure to collect and store water generated from the storage and segregation of solid waste, demolition rinse water resulting from decontamination processes or procedures and water derived from borrow pits, quarry sites, and excavation activities.</p> <p>Part D Item 12: Failure to ensure that all contact water, including water associated with the dewatering of contaminated soil areas and/or water within the perimeter of the Landfarm Facility, solid waste segregation and storage area(s), demolition rinse water,</p>			



water from Borrow Sources, and seepage from monitoring program stations, meet the effluent discharge criteria prior to being released to the receiving environment:

Part D Item 16: Failure to pump all water collected from excavated areas, including borrow pits, to an area as described in Part D, Item 11.

Part D Item 22: Failure to notify Inspector of discharges from the Landfarm Area.

Part E Item 1: Failure to seek approval from an Inspector of Borrow Areas and to provide GPS coordinates thereof.

Part H Item 1: Failure to provide for-construction drawings for the Landfarm facility.

Part H Item 2: Failure to provide as-built engineered drawings of the Landfarm facility.

Part K Item 1: Failure to install Monitoring Program stations.

Part K Item 2: Failure to confirm locations for monitoring wells with an Inspector.

Part K Item 5: Failure to measure and record effluent discharged from the Landfarm.

Part K Item 6: Failure to sample effluent from the Landfarm.

Part K Item 17: Failure to provide a QA/QC plan.

SECTION 3	<input type="checkbox"/> Comments	<input type="checkbox"/> Non-Compliance with Act or Licence	<input checked="" type="checkbox"/> Action Required
<div><div>1. GPS coordinates for the monitoring wells are to be submitted immediately to the Board and the Inspector.</div><div>2. GPS coordinates for borrow areas are to be submitted immediately to the Inspector.</div><div>3. Contact water is to be collected, tested, and treated if required as per licence conditions.</div><div>4. For-construction and as-built drawings for the landfarm, stamped by an engineer, are to be provided immediately to the Board and the Inspector.</div><div>5. Changes to camp operations from the original application are to be reflected in the appropriate plans, to be updated and submitted to the Board with the Annual Report.</div></div>			

Licensee or Representative	Inspector's Name
	Eva Paul
Signature	Signature
	Send electronically
Date	Date
	27/10/2014

APPENDICES:	<input checked="" type="checkbox"/> Inspection Photos	<input type="checkbox"/> Sample Results	<input type="checkbox"/> Other: _____
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Office Use Only:	Follow-up report to be issued by Inspector	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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CC: Phyllis Beaulieu, Manager of Licensing, NWB
 Erik Allain, Manager of Field Operations, AANDC
 Baba Pedersen, Resource Management Officer, Kitikmeot Region, AANDC