NWB Annual	Report	Year being rep	ported:	2010	_
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License No:	1BR-BEA1015	Issued Date:	April 1, 20	J10	

Project Name: Bear Island Mid-Canada Line Radar Station Remediation Project

Expiry Date: May 1, 2015

Licensee: Indian and Northern Affairs Canada - Contaminated Sites

Mailing Address: PO Box 2200

Iqaluit NU X0A 1H0

Name of Company filing Annual Report (if different from Name of Licensee please clarify relationship between the two entities, if applicable):

N/A

General Background Information on the Project (*optional):

Bear Island is approximately 5 km long, north to south, by 1.5 km wide. It is a low lying black basalt outcrop, covered with small lakes and ponds, which were created by glacial scouring. Typical plants found in this region include ground cover of dwarf birch, willow, cotton grass, lichen and moss. Seabird activity and bear and fox evidence was noted in the 1995 investigation. The wildlife typically found in this region includes black and polar bears, wolf, red fox, snowshoe hare, raven, osprey, shorebirds, seabirds, waterfowl, seal, walrus and whale.

The two Doppler radar stations operated on Bear Island from the 1950s to 1965 as part of the former Mid-Canada Early Warning Line. They were abandoned in 1965 without any cleanup operations although the majority of the buildings were removed to their foundations. The environmental issues at Bear Island include former landfills and site buildings, as well as abandoned hazardous materials (lead acid batteries, petroleum products, asbestos), barrels and scrap metal.

During 2010 remedial work began and was mostly completed at the site. The only work remaining for 2011 is to complete the demobilization activities.

Licence Requirements: the licensee must provide the following information in accodance with

Part B ▼ Item 1 ▼

A summary report of water use and waste disposal activities, including, but not limited to: methods of obtaining water; sewage and greywater management; drill waste management; solid and hazardous waste management.

Water Source(s): Water Quantity:

Bear Island Water Resovoir						
20/day Quantity Allowable Domestic (cu.m)						
13.5max/day	Actual Quantity Used Domestic (cu.m)					
8.1avg/day						
N/A	Quantity Allowable Drilling (cu.m)					
N/A	Total Quantity Used Drilling (cu.m)					

Waste Management and/or Disposal	
Solid Waste Disposal	
✓ Sewage	
Drill Waste	
✓ Greywater ✓ Hazardous	
Other:	
Additional Details:	
Solid Waste Disposal: Combustible soild waste	was incinerated on-site Non-
combustable soild wastes were packaged and to facility.	
Sewage: Sewage was directed into a tank adjace processed by a multure pump and pumped to a	·
Greywater: Greywater was directed into a tank a processed by a multure pump and pumped to a	•
Hazardous Waste: Hazardous wastes were pac shipped south to licenced disposal facilities.	kaged as per TDG requirements and
A list of unauthorized discharges and a summary of follow Spill No.: N/A	to the Spill Hot-line)
1 litre of hydraulic oil was spilled. I was cleaned water or monitoring required.	d up using absorbent. No impacts to
Spill No.: N/A (as reported Date of Spill: September 3, 2010 Date of Notification to an Inspector: N/A Additional Details: (impacts to water, mitigation measurement)	to the Spill Hot-line) res, short/long term monitoring, etc)
15 litres of diesel was spilled. 1 cubic metre of transported to a southern disposal facility for tre monitoring required	· •
Date of Spill: September 6, 2010 Date of Notification to an Inspector: N/A Additional Details: (impacts to water, mitigation measu	
4 litres of kerosene was spilled. 0.2 cubic metro transported to a southern disposal facility for tre monitoring required.	· •
Spill No.: N/A (as reported Date of Spill: Date of Notification to an Inspector: N/A Additional Details: (impacts to water, mitigation measu	to the Spill Hot-line) res, short/long term monitoring, etc)

2 litres of hydraulic oil was spilled. 0.1 cubic metres of soil was removed, packaged and transported to a southern disposal facility for treatment. No impacts to water or monitoring required.

Revisions to the Spill Contingency Plan

SCP submitted and approved - no revision required or proposed

Additional Details:

The Site Specific Spill Contingency Plan was revised as per the comments from the NWB. The revised plan was approved on January 13, 2011.

Revisions to the Abandonment and Restoration Plan

AR plan submitted and approved - no revision required or proposed

Additional Details:

The Remedial Action Plan (acts as an Abandonment and Restoration Plan) was submitted and accepted with the water licence application.

Progressive Reclamation Work Undertaken

Additional Details (i.e., work completed and future works proposed)

Work was completed as per the Remedial Action Plan. Two changes to the plan were made:

- untreated/unpainted wood was control burned on site, residual ash was shipped off site for disposal
- the Non-Hazardous Waste Landfill was not constructed at Bear Island, all wastes destined for the Landfill were packaged and shipped off site for disposal.

Results of the Monitoring Program including:

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where sources of water are utilized;

location where sources of water are utilized;	
Details attached	▼
Additional Details:	
Bear Island Water Reservoir	
The GPS Co-ordinates (in degrees, minutes and location where wastes associated with the licen	•
Details attached	
Additional Details:	<u> </u>
Additional Details: Sewage Lagoon	<u> </u>
	<u>*</u>

Results of any additional sampling and/or analysis that was requested by an Inspector

-	No additional sampling requested by an Inspector or the Board ▼							
A	Additional Details: (date of request, analysis of results, data attached, etc)							
		,						
Any other det	ails on water	r usa or	waste disposal requested by the Board by Novembe	r 1 of the ve:				
being reported		use or	waste disposal requested by the board by November	i i oi tile yea				
I	No additional sar	mpling req	uested by an Inspector or the Board	—				
A	Additional Det	tails: (Att	ached or provided below)					
		,						
		-	ns on inspection/compliance reports liance report issued by INAC					
'	NO ITISPECTION AN	iu/oi comp	nance report issued by invac	V				
<u> </u>	Additional Details: (Dates of Report, Follow-up by the Licensee)							
Any additiona	Altached is a c	or intor draft con	mation for the Board to consider y of the Bear Island Interim Remediation Completion Re	port.				
			ized once the remaining equipment and materials on Bea					
ls	Island are demobilized in 2011.							
Date Submitte	ed:	April 7,	2011					
Submitted/Pre		Mark Ye						
Contact Inform	mation:	-	867-975-4733					
		Fax:	867-975-4736					
		email:	mark.yetman@inac-ainc.gc.ca					

GPS Coordinates for water sources utilized

	Latitude			Longitude			
Source Description	o Deg	Min	, Sec	o Deg	Min	, Sec	
Bear Island Water Reservoir	54	20	41	81	5	28	

GPS Locations of areas of waste disposal

Location Description (type)	Latitude			Longitude			
	o Deg	Min	, Sec	o Deg	, Min	, Sec	
Sewage Lagoon	54	20	37	81	5	52	