Year being reported: 2015
Issued Date: June 17, 2009 Expiry Date: May 31, 2014
N-B (Clifton Point) Site Remediation Project
ous and Northern Affairs Canada (INAC)
PO Box 2200 Iqaluit NU XOA 0H0
ng Annual Report (if different from Name of Licensee please clarify wo entities, if applicable):

## General Background Information on the Project (\*optional):

PIN-B Clifton Point is located on the coast of Amundsen Gulf (Beaufort Sea) in Nunavut. The nearest communities are Paulatuk, Northwest Territories (NT), about 220 km to the northwest, and Kugluktuk, Nunavut about 220 km to the southeast. The site is situated about 1 km inland from the coast. PIN-B was an Intermediate DEW Line Site constructed in 1957 and subsequently closed and abandoned in 1963.

Remediation works were conducted at the site between 2009 and 2010, including consolidation and off-site disposal of hazardous soils and materials, demolition of buildings and structures, excavation and consolidation of wastes from various historical dumps and clean-up of other site debris. All of the non-hazardous wastes were placed in a non-hazardous waste landfill (NHWL) constructed on-site for that purpose. The NHWL was constructed and operated at the site between 2009 and 2010. The NHWL was closed in 2010.

As per departmental commitments to monitor the landfill post-closure, a long term monitoring program was initiated at PIN-B in August 2011. The first three monitoring events of the 25-year long-term monitoring at PIN-B were completed in August 2011, August 2013, and July 2015.

Long term monitoring activities undertaken at the site on July 24, 2015 included visual and natural environment monitoring and groundwater sampling. The attached report *Long Term Monitoring*, 2015 PIN-B, Clifton Point, Nunavut provides more details and results of the monitoring activities undertaken in 2015.

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. Monitoring Wells at Non-Hazardous Landfill (See GPS Water Source(s): Coordinates Page Quantity Allowable Domestic (cu.m) Water Quantity: 20/day <0.025 Actual Quantity Used Domestic (cu.m) Quantity Allowable Drilling (cu.m) None None Total Quantity Used Drilling (cu.m) Waste Management and/or Disposal Solid Waste Disposal Sewage **Drill Waste** Greywater Hazardous Other: Additional Details: Only 2 of the 4 wells were sampled (i.e. MW-1 and MW-3) as there was insufficient water available for sampling the remaining wells. The cumulative volume of groundwater purged from the 4 wells was < 10 L. No sewage or grey water were generated during the 2015 long term monitoring event. Solid wastes generated during the monitoring event (< 0.5 m<sup>3</sup>) were collected and removed from the site at the completion of monitoring activities. A list of unauthorized discharges and a summary of follow-up actions taken. (as reported to the Spill Hot-line) Spill No.: None Date of Spill: None Date of Notification to an Inspector: N/A Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc) None **Revisions to the Spill Contingency Plan** SCP submitted and approved - no revision required or proposed Additional Details: None

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**Revisions to the Abandonment and Restoration Plan** 

Additional Details:

AR plan submitted and approved - no revision required or proposed

None			

### **Progressive Reclamation Work Undertaken**

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

#### **WORK COMPLETED**

Long Term Monitoring

- Years 1, 3, and 5 of the 25-year long term monitoring program occurred in August 2011, August 2013, and July 2015 respectively.
- In 2015, two groundwater wells were sampled for chemical analysis (MW-1 and MW-3); the remaining wells were purged dry and sampling was not possible
- An evaluation of Phase I Long Term Monitoring at the site was completed, with a recommendation that monitoring activities progress to Phase II of the 25 year monitoring program. See attached report *Evaluation of Phase I Long Term Monitoring*, *PIN-B Clifton Point and Cape Christian* for further details.

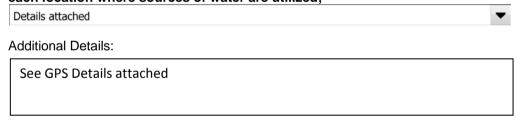
#### **FUTURE WORK PROPOSED**

Long Term Monitoring

- Started in 2011, continues until 2035
- Year 7 of the 25-year long term monitoring plan is scheduled for 2017
- Future events will occur in 2020, 2025, 2035

## **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;



The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are deposited;



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

No additional sampling requested by an Inspector or the Board

	Additional De	etails: (da	te of requ	est, analy	sis of res	sults, data	a attache	d, etc)		_
	N/A									
										_
Any other de peing report	etails on wate ted.	er use or	waste dis	sposal re	equested	by the E	Board by	Novem	ber 1 of	the year
	No additional sa	ampling red	uested by a	n Inspector	or the Boa	rd			•	
	Additional De	etails: (At	tached or	provided	below)					_
	N/A									
Anv respons	ses or follow-	up actio	ns on ins	pection/o	complian	ce repo	rts			
,	No inspection a			_					•	
	Additional De	etails: (Da	ates of Re	port, Folk	ow-up by	the Licer	nsee)			
	N/A	,					,			]
Any addition	nal comments	or infor	mation fo	u tha Da	ard to ac	noider.				
any addition										<u> </u>
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Date Submit	tted:	March :	31, 2016							
	repared by:	Lilianne		I						
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## **GPS** Coordinates for water sources utilized

	l	atitude	;	Longitude			
Source Description	o Deg	Min	, Sec	o Deg	Min	Sec.	
MW-1	70	31	32.19	68	18	19.87	
MW-2	70	31	34.97	68	18	11.64	
MW-3	70	31	32.53	68	18	7.952	
MW-4	70	31	29.87	68	18	12.88	
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# **GPS Locations of areas of waste disposal**

Location Description (type)	Latitude			Lor	ngitude	
	o Deg	, Min	, Sec	o Deg	, Min	, Sec