



Nunavut Regional Office (NRO)  
P.O. Box 2200  
Iqaluit, NU, X0A 0H0

August 5, 2015

Mr. Thomas Kabloona  
The Chair, Nunavut Water Board  
P.O. Box 119, Gjoa Haven,  
NU X0B 1J0

Dear Mr. Kabloona:

**RE: CAM-A (Sturt Point) Remediation Project: 2014 Annual Report  
for Water Licence No: 1BR-STU1318**

Please find attached the 2014 annual report for the Water licence No: 1BR-STU1318 issued for the remediation of the CAM-A (Sturt Point) site.

If you have any questions or comments, please contact the undersigned or the Project Manager, Dele Morakinyo at [dele.morakinyo@aandc-aadnc.gc.ca](mailto:dele.morakinyo@aandc-aadnc.gc.ca), or by telephone at (819) 934-9224

Sincerely,

Charlotte Lamontagne  
A/Director, Lands & Contaminated Sites (NRO)  
Tel: (867) 975-4578  
Fax: (867) 975-4736  
Email: [charlotte.lamontagne@aandc-aadnc.gc.ca](mailto:charlotte.lamontagne@aandc-aadnc.gc.ca)

CC: Nunavut Impact Review Board (NIRB), Cambridge Bay, Nunavut

NWB Annual Report

Year being reported:

2014

License No: 1BR-STU1318

Issued Date: August 07, 2013

Expiry Date: August 06, 2018

Project Name: CAM-A Sturt Point Remediation Project

Licensee: Indian and Northern Affairs Canada Contaminated Sites program

Mailing Address: PO Box 2200  
Iqaluit NU  
X0A 0H0

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):**

CAM-A (Sturt Point ) was reserved for use as an Intermediate DEW Line site in 1956. The military support facilities (which consisted of module train, warehouse, vehicle garage, a POL storage facility, a radar tower, an airstrip and a cargo beaching area) were constructed in 1957. In 1963 the site was deactivated. In 1965, DIAND assumed responsibility for the land.

The buildings and equipment were removed from the site in the early 1970's. In 1985, some hazardous materials stored on site, found in equipment and found as surface contaminants were removed. Site assessment completed in 1994/95 identified some areas of soil contamination and confirmed that all buildings except one section of the module train had been moved. The radar tower laid on the ground. Two landfills and two barrel piles were identified at the site. Other features on the site are: areas containing hazardous wastes (*asbestos, petroleum products, batteries, PCBs*); areas containing non-hazardous wastes/debris; two barrel piles; and contaminated soils' areas (*Tier I (lead, PCB); Tier II (metals, PCB); & Type B Hydrocarbons soils*).

The CAM-A site is on Crown Land, the Crown is responsible for the contamination (the liability is the Crown's). DIAND, an agent of the Crown, is cleaning up the site.

Further environmental site assessment (ESA) was conducted, at the site in 2005. Based on the results of the ESA, a Remedial Action Plan was developed for the site.

Remediation Works commenced on the site in 2013 and continued to the end of the 2014 construction season. All works on this site are now completed and equipment, wastes and personnel have been demobilized from the site. There are no requirements for long term monitoring as walk-away (no substance left behind) approach was adopted.

**Licence Requirements: the licensee must provide the following information in accordance 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):	Freshwater Lake (within the site)	
Water Quantity:	20/day	Quantity Allowable Domestic (cu.m)
	6.5/day max	Actual Quantity Used Domestic (cu.m)
	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:**

None

**A list of unauthorized discharges and a summary of follow-up actions taken.**

Spill No.:  (as reported to the Spill Hot-line)

Date of Spill:

Date of Notification to an Inspector:

Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)

No spills were recorded in 2014.

Spill No.:

Date of Spill:

Date of Notification to an Inspector:

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

#### Revisions to the Abandonment and Restoration Plan

AR plan submitted and approved - no revision required or proposed



Additional Details:

None

#### Progressive Reclamation Work Undertaken

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

##### **WORK COMPLETED:**

All works at this site are now completed . Works completed included but are not limited to:

- Site Mobilization and Camp Set Up. Mobilized camp, equipment and materials to CAM-A. Set up camp (camp was fully functional)
- Communication Tower Demolition – The tower was dismantled and cut up, packaged and shipped off-site.
- Module Train Foundation - The module train foundation constructed of large timbers was removed, packaged, strapped and disposed off-site.
- Culverts - All the 6 constructed culverts were removed. As the culverts are removed, the roadways were graded to allow continued access and the area is ditched or graded as required to prevent ponding of water.
- POL Line - The POL line was removed and packaged for off-site disposal. Very little liquid remained in the POL line and 5 gallon pails were used to collect this liquid. The majority of the line was above ground with the exception of limited lengths that were buried below constructed pads. The pipe was exposed and removed by excavator. The pads were reshaped following removal of the pipes.
- Surface Debris - All surface debris were removed, packaged and disposed off-site.
- other forms of wastes (hazardous, non-hazardous and contaminated soils) were removed and packaged using methods appropriate for each waste stream and disposed in accredited laboratories in the south.
- Regrades - The 2 Class C Landfills A and B found on the site were regraded (as per AMSRP INAC(2009)). Borrow sources and other disturbed areas on the site were also regraded to natural topography.
- All materials, equipment and wastes were demobilized from the site by sealift .

##### **FUTURE WORKS PROPOSED UNDER THIS LICENCE:**

- No further works are required at CAM-A. No structures were left at the site, therefore there are no needs for long Term Monitoring of the site.

**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;**

Details attached

Additional Details:

See GPS Co-ordinates below

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

Details attached

Additional Details:

See GPS Co-ordinates below

**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 Details: (date of request, analysis of results, data attached, etc)

**Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.**

No additional sampling requested by an Inspector or the Board

Additional Details: (Attached or provided below)

**Any responses or follow-up actions on inspection/compliance reports**

No inspection and/or compliance report issued by INAC

Additional Details: (Dates of Report, Follow-up by the Licensee)

**Any additional comments or information for the Board to consider**

None

**Date Submitted:**

August 5, 2015

**Submitted/Prepared by:**

Dele Morakinyo

**Contact Information:**

**Tel:** (819) 934-9224

**Fax:** (819) 934-9229

**email:** [dele.morakinyo@aandc-aadnc.gc.ca](mailto:dele.morakinyo@aandc-aadnc.gc.ca)

**GPS Coordinates for water sources utilized**

Source Description	Latitude			Longitude		
	Deg °	Min '	Sec "	Deg °	Min '	Sec "
Freshwater Lake	68	48	8.61	103	21	31.22

**GPS Locations of areas of waste disposal**

Location Description (type)	Latitude			Longitude		
	Deg °	Min '	Sec "	Deg °	Min '	Sec "
Sewage Lagoon	68	47	43	103	20	55
NH Wastes temporary Storage Area	68	47	9	103	20	43

## **Appendix A:**

### **CAM-A (STURT POINT) REMEDIATION PROJECT**

#### **EXECUTIVE SUMMARY**



## **CAM-A (STURT POINT) REMEDIATION PROJECT EXECUTIVE SUMMARY**

### **1. BACKGROUND**

The Government of Canada has implemented the Federal Contaminated Sites Action Plan (FCSAP) to clean up federally owned contaminated sites which pose risks to human health and the environment. Aboriginal Affairs and Northern Development Canada (AANDC) applied for, and received funds under FSCAP for the investigation and remediation of the former CAM-A (Sturt Point) Intermediate DEW Line Site, NU.

Sturt Point (CAM-A) was reserved for use as an Intermediate DEW Line site in 1956. The military support facilities (which consisted of module train, warehouse, vehicle garage, a POL storage facility, a radar tower, an airstrip and a cargo beaching area) were constructed in 1957. In 1963 the site was deactivated. Two years later, in 1965, AANDC assumed responsibility for the land. The buildings and equipment were removed from the site in the early 1970's. In 1985, some hazardous materials stored on site, found in equipment and found as surface contaminants were removed. Site assessment completed in 1994/95 identified some areas of soil contamination above the Canadian Council of the Ministers of Environment (CCME)'s standards and confirmed that all buildings except one section of the module train had been removed. The three principal buildings, the four POL tanks, the pump houses and pipeline had been removed; however their foundations remained. The radar tower had been felled and laid on the ground. Two landfills and two barrel piles were identified at the site.

Prior to site remediation works by AANDC, the site features included the foundations of the demolished buildings, POL tanks, pump houses and pipeline; a section of the module train left behind; buried debris areas (e.g. the two *landfill areas (landfill A and landfill B)*; areas containing hazardous wastes (*asbestos, petroleum products, batteries, PCBs*); areas containing non-hazardous wastes/debris; two barrel piles; and contaminated soils including *Tier I soils (lead, PCB)*, *Tier II (metals, PCB)*, and *Type B Petroleum Hydrocarbon (PHC) soils*.

The CAM-A site is on Crown Land and the Crown was responsible for the contamination on the site. Therefore AANDC cleaned up the site during the 2013-14 and 2014-15 fiscal years (FY).

### **2. SITE LOCATION/ACCESS**

Sturt Point (CAM-A) is located on Victoria Island (68°47' N, 103°20' W) overlooking Queen Maud Gulf, 2km inland from the coast and 80km east of Cambridge Bay. The terrain of the area is relatively flat with several ponds and lakes and an average elevation of 50m above sea level.

CAM-A site can be accessed by boat, overland transport (ATV or Cat Train) from Cambridge Bay, sealift, float plane or regular landing on the ground. The site has an airstrip which is about 0.9 km long and 28 m wide. The airstrip is in good condition and it is suitable for all kinds of planes – Shorts Skyvan, Dornier 228, Twin Otter DHC6, and Buffalo DHC5.

### **3. PROJECT ACTIVITIES & SCHEDULE**

Site investigation and environmental assessment activities, required to develop Remedial Action Plan (RAP) for the CAM-A site, were completed in 2010. Site investigation/assessment works

conducted on the site included the environmental Study of abandoned DEW Line Sites III – One Auxiliary and Eight Intermediate Sites in the Canadian Arctic by Royal Military College, Environmental Services Group, 1995 and the Phase III Environmental Site Assessment for CAM-A, Sturt Point, Nunavut. Intermediate DEW Line Site by AECOM, 2010. Based on the results of these environmental site assessment studies, a Remedial Action Plan (RAP) providing the strategies for cleaning up the site was developed and finalized in 2011.

For logistical reasons and in line with the long term plan of the AANDC, works on CAM-A were put on hold during the fiscal year 2011-12.

During the FY 2012-13, AANDC applied for and obtained the necessary licences and permits required for the completion of the remediation works at CAM-A. These licences/permits include the Nunavut Water Board (NWB)'s water licence, AANDC Lands' land use permit (LUP) and the Inuit owned lands (IOL) exemption certificate. The exemption certificate was procured just in case the successful contractor plans to CAT train from Cambridge Bay to the site over IOL Land.

Site Remediation works were completed on CAM-A during the FYs 2013-14 and FY2014-15. The site remediation activities completed are as follows:

- Mobilization of equipment, materials and personnel from south to the CAM-A site by sealift in August 2013.
- Improvement of site access routes.
- Improvement of site roads.
- Improvement of site airstrip to enable landing of aircrafts at the site.
- Preparation of the ocean area for badge landing.
- Set-up and Operation of the site camp to accommodate site personnel.
- Demolition of building and other site infrastructure, and segregation of the demolition wastes into hazardous and non-hazardous materials and wastes.
- Collection of site debris and separation into hazardous and non-hazardous materials and wastes.
- Containerization and transportation offsite of hazardous materials and wastes to a licenced facility in the south.
- Containerization and transportation offsite of non-hazardous materials and wastes to a licenced facility in the south.
- Excavation, containerization and transportation offsite of metals and PCB contaminated soils to a licenced facility in the south.
- Land farm cell construction & decommissioning (after soil is remediated to INAC Abandoned Military Sites Protocol's standards).
- Excavation and relocation of PHC contaminated soils to the Land farm cell; treatment of the soils; confirmatory testing of the treated soil and eventual disposal on-site after the soils were certified clean by a certified laboratory.
- Quarrying of borrow materials from the approved borrow areas for site regrading.
- Regrading of the borrow areas and other areas of the site.
- Demobilization of equipment, materials/wastes and personnel. Demobilization followed similar approach the contractor used to mobilize to the site which is direct sealift from the site to the south.

AANDC adopted walk-away solution for this site meaning that no materials, waste or infrastructure (e.g. landfill) was left at the site post-remediation. Consequently there will not be any need for long-term post-remediation monitoring at this site.

#### **4. SOCIAL IMPACT OF THE PROJECT**

As much as possible, the project adopted solutions tailored to the northern environment and its inhabitants, by using local knowledge and including the unique needs of northerners and their environments in the remediation work plan.

Throughout the project, community meetings were held in Cambridge Bay to share the project plans, employment and subcontracting opportunities, and project's progress with the community members, the local Inuit organizations, the hunters and trappers' association and other stakeholders. Feedbacks and responses were also obtained from the attendees of these meetings. A community meeting held in Cambridge Bay on February 3, 2011 presented the draft copy of the proposed Remediation Action Plan (RAP). AANDC shared her strategies for cleaning up the site and obtained feedbacks from the stakeholders. These feedbacks were useful in finalizing the RAP.

On August 13, 2013, prior to mobilization to the site, another community meeting was held to inform the community that the project is about to start. Attendees were also informed of the available jobs and subcontracting opportunities and the procedures for getting the jobs and the subcontracting businesses. This was followed by an inter-season meeting on June 26, 2014 which briefed the community about the progress made during the first year of remediation and the plans and employments/ subcontracting businesses available for the second year of construction (summer 2014). A Final community meeting following project completion, was held on October 21, 2014 to inform of the project completion and future plans

The contract for the project also specifies target levels for Inuit employment and Inuit subcontracting. The contractor committed to Inuit employment target of 65% and Inuit subcontracting target of 80%. Although the contractor fell short of his Inuit target making 53.5% / 65%, at project completion, he demonstrated to AANDC that he made substantial efforts to meet the target but could not get enough Inuit employees in the Cambridge Bay area where lots of mining activities have engaged several Inuit employees. Notwithstanding, the contractor's shortfall in Inuit employment was penalized based on Public Works and Government Services Canada (PWGSC) contracting terms. The contractor, however, significantly exceeded his Inuit subcontracting target level making 100% / 80%.

The CAM-A (Sturt Point) remediation project is now fully completed. Furthermore, no long term monitoring is required on this site as no materials, wastes or post-remediation structures (e.g. landfill, as is the case with some completed sites) are left on the site. This report is the last regulatory annual report that will be submitted on this project.

## **Appendix B:**

### **CAM-A (STURT POINT) REMEDIATION PROJECT**

#### **EXECUTIVE SUMMARY (INUKTITUT)**











## **Appendix C:**

### **CAM-A (STURT POINT) REMEDIATION PROJECT**

#### **EXECUTIVE SUMMARY (INUINNAQTUN)**

*Translators are not available. This document will be provided to the Board as soon as translators are found and the translation is completed*