

NWB Annual Report

Year being reported: 2009 ▼

License No: 1BR-EKA1017

Issued Date: March 1, 2010

Expiry Date: September 30, 2017

Project Name: FOX-C Ekalugad Fjord Remediation Project

Licensee: Indian and Northern Affairs Canada

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):

The FOX-C Intermediate Distant Early Warning (DEW) Line Site was constructed in 1957 and subsequently abandoned in 1963. It is located on the Northeast coast of Baffin Island, Nunavut on the south shore of Ekalugad Fjord. It is approximately 240 kilometres northwest of Qikiqtarjuaq and 260 kilometres south of Clyde River.

The remediation phase of the FOX-C Ekalugad Fjord Remediation Project was completed over 3 field seasons (2006-2008). Monitoring activities for the first year of the 25-year long-term monitoring plan for this project were completed on August 27th, 2009. The report *Long term Monitoring, 2009 FOX-C, Ekalugad Fjord, Nunavut* provides details and results of the monitoring activities undertaken. In general, site conditions were good and the non-hazardous landfill was performing as designed.

The next site monitoring event is scheduled for August 2011 (See Table #2 of the *FOX-C Ekalugad Fjord Long-Term Monitoring Plan (2008)*).

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):	Monitoring Wells at Non-Hazardous Landfill (See GPS Coordinates Page)		
Water Quantity:	5 per annum	Quantity Allowable Domestic (cu.m)	
	0	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:

No waste was deposited or disposed of at the site during the one-day long term monitoring site visit.

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)

Revisions to the Spill Contingency Plan

SCP submitted and approved - no revision required or proposed



Additional Details:

Revisions to the Abandonment and Restoration Plan

AR plan submitted and approved - no revision required or proposed



Additional Details:

Progressive Reclamation Work Undertaken

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

WORK COMPLETED

-Please See Appendix 4 Section 2.0 for a detailed summary of remediation works carried out from 2005 - 2008.
 -The first year of the 25-year Long Term Monitoring Plan was implemented at FOX-C on August 27, 2009. Visual inspections of the Non-Hazardous Waste Landfill (NHWLF), Landfarm, and other work areas were conducted.
 -An attempt to sample the groundwater monitoring wells around the NHWLF was made but the wells were all found to be frozen, thus no water was collected for analysis.
 -Residents of Qikiqtarjuaq were interviewed to gather anecdotal Traditional Knowledge of the site, as part of the Natural Environmental Monitoring component of the Long Term Monitoring Plan for FOX-C.

FUTURE WORK PROPOSED

-The second monitoring event of the 25-year Long Term Monitoring Plan for FOX-C is scheduled for August, 2011.

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 page 5 for GPS coordinates for the monitoring wells.

Results of the long term monitoring program are contained in the report *Long term Monitoring, 2009 FOX-C, Ekalugad Fjord, Nunavut* which appears in Appendix 3

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

Not Applicable (N/A) ▼

Additional Details:

No water was deposited during the Long Term Monitoring activities.

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)

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Any additional comments or information for the Board to consider

In accordance with Part B Item 1. I. of the licence which states: "For the first Annual Report following issuance of the Licence, include disposal information for soil treated in the Landfarm and sludge in the sewage lagoon; this shall also cover the abandonment and restoration of the above facilities." the following details are provided.

Landfarm

See Appendix 4 (090428 - 1BR-EKA1017 - FOX-C 2008 Construction Clean-up Summary Final Report) Section 2.3 and 2.4; Section 3.4.1 and Table 5.0 and 6.0 in Appendix B.

Sewage Lagoon

See Appendix 4 (090428 - 1BR-EKA1017 - FOX-C 2008 Construction Clean-up Summary Final Report) Section 2.8

Date Submitted:

March 26, 2009

Submitted/Prepared by:

Natalie Plato

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GPS Coordinates for water sources utilized*

Source Description	Latitude			Longitude		
	Deg °	Min '	Sec "	Deg °	Min '	Sec "
Non-Haz Landfill Monitoring Wells (MW)						
MW South	68	43	46.9	-68	39	12.76
MW East	68	43	50.02	-68	39	7.523
MW North	68	43	50.17	-68	39	15.45
MW Northwest	68	43	48.54	-68	39	17.39
MW Southwest	68	43	47.66	-68	39	16.36

* All monitoring wells were frozen, no water was utilized.

GPS Locations of areas of waste disposal

Location Description (type)	Latitude			Longitude		
	Deg °	Min '	Sec "	Deg °	Min '	Sec "
N/A						

APPENDIX 1: Executive Summary (Inuktitut)

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APPENDIX 2: Executive Summary (English)

EXECUTIVE SUMMARY

FRANZ Environmental Inc. (FRANZ) was retained by Indian and Northern Affairs Canada (INAC) to conduct the first of eight long-term monitoring activities over the next 25 years at the former DEW Line site, FOX-C, as prescribed by INAC's FOX-C Ekalugad Fjord Long-Term Monitoring Plan. This project was completed under INAC standing offer number 01-09-6038, call-up number 01, file number 1632-11/01-09-6038.

The FOX-C Ekalugad Fjord site is located on the Northeastern coast of Baffin Island, Nunavut, on the southern shore of Ekalugad Fjord. FOX-C was an intermediate Distant Early Warning (DEW) Line Site at which a remediation project was conducted between 2005 and 2008. After demolition, remediation consisted of disposal of non-hazardous waste and contaminated soils in on-site facilities.

Monitoring efforts were conducted on August 27, 2009 while based out of the nearest community, Qikiqtarjuaq, approximately 240 km to the Southeast. The landfill monitoring program consisted of a visual inspection of the Non-Hazardous Waste Landfill (NHWL).

It was noted that there was some minor settlement on top of the landfill and some very minor erosion on the sideslopes, but otherwise it was in satisfactory shape. Based on visual and photographic investigations, it was determined that: the site remains little changed from the time construction and remediation were completed in 2008; its facilities continue to operate as designed; and the site poses no imminent threat to the natural environment.

The Lake, Beach, Mid- and Upper Station Areas were also observed and found to be in good condition with the exception of an insignificant stain in borrow area 6 of the Lake Area. Physical evidence and second-hand information suggest that wildlife and local hunters continue to frequent this site.

This executive summary should be read in conjunction with the main report and is subject to the same limitations described in Section 8.0.