

NWB Annual Report

Year being reported: 2021

License No: 1BR-EKA1734

Issued Date: September 22, 2017

Expiry Date: September 21, 2034

Project Name: FOX-C Ekalugad Fjord Long Term Monitoring

Licensee: Crown-Indigenous Relations and Northern Affairs Canada
(CIRNAC) Contaminated SitesMailing 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 on the south shore of Ekalugad Fjord and is approximately 240 km from Qikiqtarjuaq and 260 km from Clyde River. Remediation at the FOX-C site was completed between 2006-2008 and involved the construction of a non-hazardous waste landfill (NHWL), the only structure remaining onsite.

As per departmental commitments to monitor the NHWL post-closure, a 25-year long term monitoring (LTM) program was initiated at FOX-C in 2009 and includes visual inspection, groundwater sampling, soil sampling (as required), and natural environment monitoring. Refer to the *FOX-C Ekalugad Fjord Long Term Monitoring Plan (2008)* for additional information.

Years 1, 3, 5, 7, and 10 of the LTM program were completed in 2009, 2011, 2013, 2015, and 2018 respectively.

The next LTM event was scheduled for 2021 (Year 13), however due to weather, the site could not be accessed. Future events will occur in 2023, 2028 and 2033 (Years 15, 20, and 25, respectively).

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 the NHWL (See GPS Coordinates Page) Surface Water Sample (SW-East)	
Water Quantity:	1/day	Quantity Allowable Domestic (cu.m)
	0	Actual Quantity Used Domestic (cu.m)
	0	Quantity Allowable Drilling (cu.m)
	0	Total Quantity Used Drilling (cu.m)

Waste Management and/or Disposal

☒ Solid Waste Disposal

☐ Sewage

☐ Drill Waste

☐ Greywater

☐ Hazardous

☐ Other:

Additional Details:

Refer to the *FOX-C Ekalugad Fjord Lake Long Term Monitoring Plan (2008)* and *FOX-C Ekalugad Fjord 2018 LTM Report* for details.

CIRNAC was not onsite in 2021. Thus, no water samples were collected and no solid waste was generated in 2021.

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

▼

Additional Details:

Revisions to the Abandonment and Restoration Plan

N/A - not applicable

Additional Details:

N/A

Progressive Reclamation Work Undertaken

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

No progressive reclamation work was undertaken in 2021.

As per the *FOX-C Ekalugad Fjord Long Term Monitoring Plan* (2008) and additional recommendations from the 2018 site visit, an additional LTM event for 2021 was scheduled, however due to weather, the site could not be accessed. Future LTM events are scheduled for 2023, 2028, and 2033 (Years 13, 15, 20, and 25 respectively).

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:

Additional details regarding water sources (monitoring wells) can be found in the *FOX-C Ekalugad Fjord Long Term Monitoring Plan* (2008).

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:

Remediation was completed in 2008 and the only structure remaining at the site is the NHWL. No waste was deposited on site in 2021. Any solid waste generated is removed from the site at the completion of LTM 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)

N/A

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)

N/A

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)

N/A

Any additional comments or information for the Board to consider

Physical observations of the NHWL conducted during the 2018 LTM event indicate that the NHWL at FOX-C Ekalugad Fjord is in acceptable condition, is performing as designed, and is containing the enclosed waste. However, given the parameters reporting exceedances against the Federal Interim Groundwater Quality Guidelines (FIGQG) and the upper limit of acceptability (ULA) calculated, it is recommended to increase the frequency of monitoring compared to what was originally set out in the *FOX-C Ekalugad Fjord Long Term Monitoring Plan* (2008). An additional site visit was scheduled for Year 13 (2021) but due to weather, the site could not be accessed. The next monitoring event is scheduled to be at Year 15 (2023).

Date Submitted:

January 18, 2022

Submitted/Prepared by:

Selma Al-Soweydawi, Contaminants Specialist

Contact Information:**Tel:** 867-975-4732**Fax:** 867-975-4560**email:** selma.al-soweydawi@rcaanc-cirnac.gc.ca