

NWB Annual Report

Year being reported: 2020

License No: 1BR-LOR1727

Issued Date: April 27, 2017

Expiry Date: April 26, 2027

Project Name: Cape Christian 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 Cape Christian site is situated on a lowland coastal bluff located on the northeast coast of Baffin Island about 16 km northeast of the Hamlet of Clyde River, Nunavut. The site was a former US Coast Guard Long Range Navigation communication station constructed and operated between 1954 and 1974. The site was abandoned in 1975 without decommissioning.

The remediation of the site occurred between 2008 and 2011. All of the non-hazardous wastes were placed in a non-hazardous waste landfill (NHWL) constructed on-site for that purpose.

As per departmental commitments to monitor the NHWL post-closure, a 25-year long term monitoring (LTM) program was initiated at Cape Christian and includes visual inspections, groundwater sampling, soil sampling (as required), and natural environment monitoring. Refer to the *Cape Christian Long Term Monitoring Plan* (2009, 2017) for additional information.

Years 1, 3, and 5 of the LTM program took place in 2011, 2013, and 2015 respectively. Year 7 occurred in 2017, but due to an act of vandalism the samples were lost and could not be analyzed. CIRNAC then returned on site on August 10th, 2018 to collect new samples. Refer to the *Cape Christian 2018 LTM Report* for more details. Future events will occur in

**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)	
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 *Cape Christian Long Term Monitoring Plan* (2009, 2017) and the *Cape Christian 2018 LTM Report* for details.

CIRNAC was not onsite in 2020. Thus, no water samples were collected and no solid waste was generated in 2020.

**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**

No Spill Contingency Plan (SCP) submitted or approved ▼

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 2020.

As per the *Cape Christian Long Term Monitoring Plan* (2009, 2017), future long term monitoring events are scheduled for 2021, 2025, and 2035 (Years 11, 15 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 *Cape Christian Long Term Monitoring Plan* (2009, 2017).

**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 2011 and the only structure remaining at the site is the NHWL. No waste was deposited on site in 2020. 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)

The last inspection conducted at Cape Christian was in 2009. The 2009 Inspection Report is available on the NWB ftp site. The majority of issues were identified during remediation and no issues remain applicable to post-remediation monitoring activities.

**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 Cape Christian is in acceptable condition, is performing as designed, and is containing the enclosed waste.

**Date Submitted:**

March 31, 2021

**Submitted/Prepared by:**

Selma Al-Soweydawi, Contaminants Specialist

**Contact Information:****Tel:** 867-975-4732**Fax:** 867-975-4560**email:** [selma.al-soweydawi@canada.ca](mailto:selma.al-soweydawi@canada.ca)