NWB Annual Report Year being reported: 2024

License No: 1BR-SIM2237 (Formerly 1BR-SIM1520) Issued Date: September 28, 2022 Expiry Date: September 27, 2037

**Project Name:** CAM-D Simpson Lake Long Term Monitoring

Licensee: Crown-Indigenous Relations and Northern Affairs Canada

(CIRNAC) Contaminated Sites

Mailing Address: Nunavut Regional Office

969 Sivumugiaq St. Iqaluit, NU X0A 3H0

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-D Simpson Lake, an intermediate Distant Early Warning (DEW) Line site, is located on the Boothia Peninsula, approximately 120 km from Taloyoak, 100 km from Gjoa Haven, and 80 km from Kugaaruk. The DEW Line site was constructed in 1957 and abandoned in 1963.

Remediation of the CAM-D site occured between 2010 and 2012. A non-hazardous waste landfill (NHWL) was constructed to contain non-hazardous material. In 2011, four (4) groundwater monitoring wells were installed around the perimeter of the NHWL.

As per departmental commitments to monitor the NHWL post-closure, a 25-year long term monitoring (LTM) program was initiated at CAM-D in 2012 and includes visual inspection, groundwater sampling, soil sampling (as required), and natural environment monitoring. Refer to the *CAM-D* (*Simpson Lake*) Long Term Monitoring Plan (2010) for additional information.

Years 1, 3, 5, 7, 9, 11, and 13 took place in 2012, 2014, 2016, 2018, 2020, 2022, and 2024 respectively. Future events will occur in 2026, and 2036.

-	irements: the licens	nents: the licensee must provide the following information in accordance			
with	Part B Tte	m 1 ▼			
A summary re	port of water use a	nd waste dispos	al activities, including, but not limited to:	methods of	
obtaining wat waste manage		ywater managen	nent; drill waste management; solid and h	nazardous	
\	Water Source(s):	Monitoring Wells	s at the NHWL (See GPS Coordinates Page	)	
\	Water Quantity:	1/day <0.05 0	Quantity Allowable Domestic (cu.m) Actual Quantity Used Domestic (cu.m) Quantity Allowable Drilling (cu.m) Total Quantity Used Drilling (cu.m)		
	Waste Management a Solid Waste Dispo Sewage Drill Waste Greywater Hazardous Other: Additional Details: CIRNAC was onsit	osal	er 10th, 2024. Two groundwater samples		
	(plus one duplicate Due to deterorating could not be samp Monitoring activitie out of Cambridge E (packaging, paper generated (< 0.5 m completion of mon	e) were taken frog weather condited.  s were conduct Bay, NU so no contowels, paper, has) were collectritoring activities.	om monitoring wells MW-01, and MW-03 itions at the site, MW-02 and MW-04 ed within a single day and were based camp was required. Solid wastes kimwipes, filters, Teflon tubing) ed and removed from the site at the .  Lake Long Term Monitoring Plan (2010)		
A list of upaut	thorized discharges	and a summary	of follow-up actions taken.		
? [ ]	Spill No.: No spill Date of Spill: N/A Date of Notification to	an Inspector:	reported to the Spill Hot-line)  N/A  tion measures, short/long term monitoring, etc)		
Revisions to t	he Spill Contingenc	y Plan			
(	Other: (see additional deta	ils)		▼	
<u> </u>	Additional Details:				
	A General LTM Sp November 2, 2018		omitted to the Nunavut Water Board on on.		

	N/A - not applicable
	Additional Details:
	N/A
ress	ive Reclamation Work Undertaken
	Additional Details (i.e., work completed and future works proposed)
	No progessive reclamation work was undertaken in 2024.
	As per the CAM-D (Simpson Lake) Long Term Monitoring Plan (2010) and the additional LTM event added to the LTM Plan in 2016 to monitor deterioration observed at the northern corner of the NHWL, the next LTM event (Year 15) is scheduled for 2026. A future LTM event is scheduled for 2036 (Year 25).
ults c	of the Monitoring Program including:
	The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) o
	each location where sources of water are utilized;  Details attached
	betails attached
	Additional Details:
	Additional details regarding water sources can be found in the CAM-D (Simpson Lake) Long Term Monitoring Plan (2010).
	The ODO On auditories (in decrease retire)
	The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) o each location where wastes associated with the licence are deposited;  Not Applicable (N/A)
	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 Details: (date of request, analysis of results, data attached, etc)
	N/A
any othe	r details on water use or waste disposal requested by the Board by November 1 of the year
eing rep	No additional sampling requested by an Inspector or the Board
	Additional Details: (Attached or provided below)
	N/A
ny resp	onses 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 2024 LTM event indicate that the NHWL at CAM-D is in marginal condition and is performing as designed to contain enclosed waste. While some features such as settlement, cracking and erosion on the northern corner and southeast slope of the NHWL continue to increase since the last LTM event (2022), and new features are identified, no significant impact on NHWL stability has been observed to date. Some features, such as erosion channels. appear to be becoming self-armouring and may be stabilizing in their slumped condition. As per the monitoring report from 2016, continued monitoring at an increased frequency is still recommended at CAM-D to monitor if further deterioration is observed and if the NHWL stability remains intact.

**Date Submitted:** Submitted/Prepared by: **Contact Information:** 

October 7, 2025

Selma Al-Soweydawi, Contaminants Specialist 867-975-4732

Tel:

867-975-4560 Fax:

email: selma.al-sowevdawi@rcaanc-cirnac.gc.ca