



Isa Qamaniq-Mason
Land Administrator Specialist, Land Administration
Crown Indigenous Relations and Northern Affairs Canada
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March 10, 2021

Dear Isa Qamaniq-Mason:

Subject: Report on Soil Stockpile Construction During Airport Improvements at the Eureka High Arctic Weather Station (HAWS)

This letter is submitted as a follow-up to the letter “Temporary Stockpile, Airport Improvements at Eureka HAWS, NU” dated July 24, 2020.

As discussed in the above referenced letter, Environment and Climate Change Canada (ECCC) is rehabilitating the runway at the Eureka High Arctic Weather Station on Ellesmere Island. The goal of the rehabilitation project is to improve the condition of the runway, airside aprons and the access road. The project is being conducted under Land Use Permit N2017N00171¹ and the Station’s Water Licence, 8BC-EUR16212². Nuna East Ltd. (Nuna) is the construction company contracted by Public Services & Procurement Canada (PSPC) on behalf of ECCC to complete the rehabilitation project.

During the construction work, Nuna discovered petroleum hydrocarbon-impacted soils while excavating the main apron in July 2020. Because the work season in Eureka is short and the runway improvements are critically important, a plan was developed to continue the construction activities while also addressing the impacted soil. This involved excavating the impacted soil and placing it temporarily in an on-site stockpile. This approach limits risks to

¹ The Land Use Permit was granted July 4/August 8, 2017 and conditions annexed on June 18, 2018.

² The Type B Water Licence was granted August 11, 2016 and amended July 18, 2018. The NIRB Screening Decisions Report is File No 12XN020 (June 1, 2018)



human health and the environment while long-term management plans can be developed. Construction of the stockpile is consistent with Requirement 58 of the Eureka Land Use Permit.

The contaminated soil excavation and stockpile construction plan was communicated to Crown Indigenous Relations and Northern Affairs Canada (CIRNAC) in the letter referenced above.

After the plan was approved by ECCC and PSPC, Nuna constructed a lined, bermed area to serve as a stockpiling location for the contaminated soil. The stockpile area was constructed to the south of the airstrip, near an existing landfarm. The base liner was constructed from high-density polyethylene. Berms were constructed from native soil in the stockpile area.

The stockpile was filled with soil from the main apron of the airport, to the north of the runway. Nuna placed an estimated quantity of 3,200 m³ of impacted soil from the main apron into the stockpile. After material placement was complete, Nuna placed a reinforced polyethylene geomembrane on top of the stockpile and secured it in place with sandbags.

We currently have a consultant working on preparing a remedial options analysis and remedial action plan which tentatively includes a sampling plan to characterize the stockpile this summer.

An as-built plan drawing of the soil stockpile is in Attachment A. Photos of the construction activities are in Attachment B to this letter.

We trust this information adequately summarizes the work completed relative to the plans provided to CIRNAC on July 24, 2020.

Should you have questions or comments, please contact, Andrea Bjarnarson at PSPC at your convenience:

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Sincerely,

Environment and Climate Change Canada (ECCC)

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Attachment A:
As-built Plan Drawing of Soil Stockpile

Attachment B:
Photo Log of Soil Stockpile Construction



**PUBLIC SERVICES AND PROCUREMENT CANADA
EUREKA AIRSTRIP RECAPITALIZATION PROJECT
Contaminated Soil Stockpile - Construction Report**



PHOTO LOG

Preparing Base of Stockpile

AUGUST 10, 2020 - Leveling Base for Stockpile	AUGUST 10, 2020 - Built berms using existing material	AUGUST 12, 2020 - Completed Base and Berms of Stockpile
		


Base Liner Installation







AUGUST 14, 2020 - Installing Base Liner	AUGUST 14, 2020 - Completed Base Liner Install	
		

LHP Contaminated Material into Stockpile

AUGUST 15, 2020 - LHP Contaminated Soil in Stockpile	AUGUST 15, 2020 - LHP Contaminated Soil in Stockpile	
		

Preparing Top of Stockpile for Liner Cover

SEPTEMBER 17, 2020 - Prepared Cover and Anchor Trench		
		

Anchor Trench Construction		
SEPTEMBER 15, 2020 - Excavation of Anchor Trench	SEPTEMBER 15, 2020 - Completed Anchor Trench	SEPTEMBER 17, 2020 - Completed Anchor Trench
		
Cover Liner Installation		
SEPTEMBER 17, 2020 - Cover Liner installation	SEPTEMBER 19, 2020 - Backfilled Anchor Trench	SEPTEMBER 23, 2020 - Sandbag Placement on Cover Liner
		
<p>Contruction Comments:</p> <p>Ramp constructed on East side of contaminated soil stockpile</p> <p>Liner panels placement mirrored from design (overlapped West to East)</p> <p>Liner cover could not be installed immediately after contaminated soil placement is complete due to delay in delivery of liner (very poor conditions of airstrip)</p>		
Attached documents : As-builts (Stockpile Base, Berms, Contaminated Material, Base and Cover Liner)		