

## nirb info

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**From:** Ayilara, Sulaimon <SAyilara@gov.nu.ca>  
**Sent:** May 25, 2022 10:46 AM  
**To:** nirb info  
**Cc:** Francis Emingak  
**Subject:** [EXTERNAL] RE: NIRB 125677/22XN014: Opportunity for GN to Address Comments Received for the "Baker Lake Landfarm" Project Proposal

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Hello Calvin/Francis,

Kindly see response to your questions as below in red ink –

### CIRNAC -

- **Landfarm Equipment Operations** - clarify what measures will be taken to ensure that equipment used in the landfarm remediation area is cleaned prior to removal from the landfarm?

This is very dependant on many factors and how cells are constructed and what equipment is used. PPD operation choose to have a place where Loaders and trucks can enter and tip their load without driving on impacted soil. (And soil spilled in this area is scrapped into the pile) this ensures the trucks do not track contaminated soil outside of the cell.

The equipment uses the most in the cell is an excavator. Soil screening is done in the dry weather which makes it easy to clean the tracks by raising one track in the air and spinning it around to expel the soil. Repeat the same operation with the opposite side, then shovel or scrape the track frames clean. Loader tires in dry material do not track soil but if treads are loaded, then soil will be picked out of tread and not left in front of tires when driving loader away.

We also like to use gravel not sand in the top 10 inches of our ramps going both into and out of the cell, this eliminates cling to tires and tracks.

The other option is to have a wash station located on the exit ramp where tires and tracks are washed but, in most cases, this is not feasible. The wash surface must be hard, and this means stones do not soil and it must be long enough to allow cleaning of whole wheel and it must be made on a slope into the cell so water drains into the landfarm also the soil washed off plugs up the stones and they will need to be replaced or screened out to allow continuous operation. We have done this but it's not practical for operations without concrete or paved surface.

- **Landfarm Dust Suppression** - clarify if the annual precipitation falling over the footprint of the facility is expected to be adequate for dust suppression efforts of the facility, and if not, provide quantities of water to be sourced from surrounding water bodies to meet the project's dust mitigation needs?

The landfarm will require the use of tanks. These tanks will contain spring freshet water to be used as wetting agent. The water is pumped into the tanks in the spring and held there until needed. Water is then sprayed over the soil to control dust and to maintain moisture content in soil to increase microbial activity. Tanks can be placed in the cell out of the way of screening operations and with use of gas-powered pump will wet soil quickly.

Using same pump and hoses as the one used to fill tanks in the spring. Baker Lake soil is heavy with clay and is not prone to creating dust. Clay soil will skin over as it dries and become very hard. Often so hard it will not screen out properly and many chunks will pass through screening plant as rocks and cobbles. Care is always taken to screen clay soil in the right conditions so soil will pass through screens and not over them.

- **Projected Water Consumption** - clarify what water consumption is expected?

If tanks are used to contain melt water, there should be no water from outside source required. All contained water must be used up or discharged prior to freeze up. If managed there should be little or no water to discharge. Water cannot be left in tanks over the winter. Tanks will be damaged, and the storage will be required in the spring of the year during freshet.

Let me know if you need more clarification.

Thanks.

### **Sulaimon Ayilara**

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**From:** NIRB Enterprise Management System <noreply@nirb.ca>

**Sent:** May 24, 2022 5:05 PM

**To:** info@nirb.ca

**Subject:** NIRB 125677/22XN014: Opportunity for GN to Address Comments Received for the "Baker Lake Landfarm" Project Proposal

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24-May-2022

Dear Sulaimon Ayilara:

On April 28, 2022 the Nunavut Impact Review Board (NIRB or Board) requested that interested parties submit comments regarding Government of Nunavut's (GN) "Baker Lake Landfarm" project proposal (NIRB File No.: 22XN014).

By copy of the attached letter, the NIRB hereby requests that GN review the comment submissions and provide a response to the Board on or before **June 7, 2022**.

If you have any questions or concerns, feel free to contact Francis Emingak, Junior Technical Advisor at (867) 983-4616 or [femingak@nirb.ca](mailto:femingak@nirb.ca).

Best regards,

Calvin Ehaloak  
Environmental Administrator

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