

Francis Emingak

From: Keith Morrison
Sent: Wednesday, October 4, 2023 11:39 AM
To: Francis Emingak
Subject: FW: [EXTERNAL] 23YN040-Long Term Water Project - Geotechnical Investigations(125845) : Response to Public Comments
Attachments: 230919-23YN040-CIRNAC Comments-IA1.pdf

From: Krishnan, Ramesh <Ramesh.Krishnan@colliersprojectleaders.com>
Sent: Wednesday, October 4, 2023 11:36 AM
To: Keith Morrison <kmorrison@nirb.ca>
Cc: McBean, Ian <Ian.McBean@colliersprojectleaders.com>; Sithole, Richard <Richard.Sithole@colliersprojectleaders.com>; 'Tamilore Adeleke' <T.Adeleke@iqaluit.ca>; a.oyefeso@iqaluit.ca; Oghenerugba Ugboduma <O.Ugboduma@iqaluit.ca>
Subject: [EXTERNAL] 23YN040-Long Term Water Project - Geotechnical Investigations(125845) : Response to Public Comments

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Good Afternoon Keith,

As part of our efforts to address CIRNAC's comments (please see attached) on our NIRB permitting application (23YN040), please find below the response as requested:

CIRNAC #1 - Management Plans for Project Activities

- The refueling plan will address how refueling will be done and ensure the concern regarding distance from waterbodies is addressed.
- We will not have fuel storage areas on the site. There are no plans to refuel equipment in the field. If this plan changes between now and when we prepare the respective plans then the refueling plan will address the concerns regarding refueling.
- The use of drip pans and the like will be addressed in the refueling plan as applicable.
- There will be no sewage water generated as part of this program however some recirculation water may be used and we will ensure any discharge of this water to the land will be done in a manner that will not impact upon the local freshwater environment particularly given we will be working near the existing Lake Geraldine reservoir for some of this work.
- Given the nature of the drilling ie shallow there will be very little overburden disturbance and the generation of rock waste will be minimal, as such erosion and sediment control measures will be minimal and limited to ensuring any waste soils or rock are not left in a condition whereby fine grained materials can enter the local freshwater water bodies.

CIRNAC #2 – Fuel and Drilling Fluid Classification

- The type and quantity of fuel to be used in executing this work will be defined in the Refueling Plan

- The type and estimated quantity of drilling fuel to be used in executing this work will be defined in the Spill Contingency Plan (note at present there is no intend to use any drilling mud or other chemicals as part of the drilling program however this will be confirmed during the preparation of the applicable plan).
- Given the only drilling fluid anticipated for the program is local water then minimal measures are required other than to control the potential run off of rock flour associated with the drilling. Any water collecting at surface will be directed away from any water bodies. More details will be provided in the erosion and sediment control write-up.

CIRNAC #3 – Rock Sampling and Characterization

- At this point we are not drilling for the purposes of identifying a quarry source and as such the amount of material that will be generated during the course of the overburden and bedrock sampling is minimal and would not result in the release in any measurable quantities of acid should PAG be exposed.
- When it comes time to do the bedrock drilling to recover core samples from the proposed rock quarry then the appropriate testing will be done to confirm PAG rock is not being used in the construction of any dams or road access or building foundation construction.
- As a general note this project will be covering the land as opposed to exposing bedrock except at the quarry and borrow locations. If during the course of the program it is identified the local bedrock beneath the proposed borrow pits is identified as being materially different from the rock at the quarry site then samples of the bedrock could be recovered and submitted for analysis to confirm if PAG bedrock is being exposed, however, there are no plans to do this work at this time.
- Analytical work would include Acid Base Accounting, bulk metals testing and synthetic leachate testing. Field paste pH testing can also be done on the overburden but would not be undertaken on the bedrock until the rock quarry was in production which is outside the scope of this permit application and as such will not be done.

CIRNAC #4 – Consultation with Interested Parties

The consultant engaged will undertake to incorporate as many of the points raised by CIRNAC in the execution of the work with the understanding this program is of a short duration and will require staff trained in the operation of the equipment necessary to do the sample recovery work. Once the program has been given the green light to proceed the consultant and its subcontractors will reach out as appropriate and can be done given the time of year we are trying to execute the work.

Please let me know if you require any further information or if you have any additional instructions.

Regards

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Assistant Project Manager

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