

Review of Correspondence between EBA (Nov 25/05) and Acres (Oct 20/05)

Completed by: Joe Murdock

Date: November 30th, 2005

Licence: NWB1JER0410 Part D, Item 16

C1 Diversion

NWB1JER0410 C1 Diversion (Section D, Item 16)

This document evaluates Tahera's (EBA) response to comments presented by Ramli Halim (Acres) and identifies points where Tahera (EBA) is to provide further clarity.

Acres Review and Comments Section 1 - *General*

Bullet 1 Channel side slopes and quality control

EBA states that an EBA geotechnical engineer will provide quality control with respect to the construction of channel side slopes and site specifics. The Board would like to better understand how this information is to be reported and when.

Acres Review and Comments Section 3 – *Hydraulic Design Parameters*

The Proponent has not adequately addressed Acres request for a summary of parameters used in design with brief comments and references. As per Section D, Item 16 of the licence the Proponent is to submit a final detailed design plan and in doing so should clearly identify what hydraulic parameters have been used to establish the final design. The Proponent is invited to reiterate specific parameters from previously referenced documents through a re-listing in the stand-alone final detailed design document if that is desired. The Proponent should also qualify that the SRK referenced parameters are adequate in the design presented by EBA and qualify that EBA believes that these parameters are scientifically sufficient for the final design presented by EBA.

Acres Review and Comments Section 4 – *Permafrost Degradation...*

Bullet 1 Statement outlining Model/Study for decision

The Board appreciates the discussion provided but would still like a statement from the Proponent highlighting if a model or study was conducted to support the decision to have a wide channel for peak flow during the 1:200 year event in response to Acres question.

Bullet 3 Geothermal modeling for berm sizing and berm as a transportation platform

The Proponent has not adequately addressed Acres concern. How was the berm dimensioned to ensure that the berm will preserve and aggrade permafrost conditions? Could the Proponent please provide sufficient detail and backing (previous studies, modeling, etc) in their response?

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The Board understands that this berm is to be used as a transportation platform for heavy equipment traffic. What bearing capacity limitations have been set on the berm to ensure structural integrity and prevention loss of berm section through all seasons?

Bullet 5 Modeling/Studies for insulating layer

The Board requests a clear statement identifying if a model or study was used to support the use of the design insulating layer in response to Acres question. If not what is the scientific foundation of this decision (i.e. Quantitative and qualitative specifications/reasoning such as appropriate depth with the materials used in the layer).

Acres Review and Comments Section 5 – *Energy Dissipation/Fish Pool*

Bullet 2 Removal of Silt

The Proponent states that the *"removal of silt trapped by silt curtains will be an operational/maintenance requirement that will likely need to be addressed during the first year"*. Could the Proponent please elaborate on how and when this will be reported to the Board?

Bullet 4 Riffle Pools

The Proponent states that *"Riffle Pools will be constructed by hand under the direction of a biologist following a period of stabilization"*. Could the Proponent please elaborate on how this will be reported to the Board?

Acres Review and Comments Section 6 – *Drawings and Construction Specs*

Bullet 1 Rock Excavation

The Proponent should provide further information. What detailed instructions will be given to the contractor on site to excavate rock?

Bullet 3 Rip Rap Dimensioning

The Proponent states that *"Rip-Rap thickness should be 1.5 times the maximum specified particle diameter size"*. Could the Proponent please elaborate further on this specification?

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RECOMMENDATION:

To officially send back to Tahera (via Bruce Ott) when other regulatory comments and responses are evaluated by NWB for C1 Diversion.