



## Fwd: Jericho Site Stabilization Project

**Cynthia Ene** <cynthia.ene@nwb-oen.ca>  
 To: Ida Porter <ida.porter@nwb-oen.ca>  
 Cc: David Hohnstein <david.hohnstein@nwb-oen.ca>

Mon, Oct 17, 2016 at 8:28 AM

Good Morning Ida, can you please post the below email correspondence on the ftp site for "8BC-JER----", also note there are 2 additional documents attached to the email.

Thanks,

Cynthia

----- Forwarded message -----

From: **Michael Westlake** <Michael.Westlake@aadnc-aandc.gc.ca>  
 Date: Mon, Oct 17, 2016 at 8:12 AM  
 Subject: Re: Jericho Site Stabilization Project  
 To: Cynthia Ene <cynthia.ene@nwb-oen.ca>  
 Cc: Mark Yetman <Mark.Yetman@aadnc-aandc.gc.ca>

Good morning Cynthia,

I hope you had a good weekend.

The following are responses to your questions:

1) We anticipate that the water level at the West Dam will be at approximately 518 meters above sea level (masl) by the time the proposed site stabilization work can commence next year. We base this number off our past experience doing annual care and maintenance activities. The original elevation for the lake that was in this area before the Jericho Mine was built was 514.4 masl. Using the attached "Stage Storage Curve" that was developed by EBA for Shear Diamonds for their Care and Maintenance Plan, we anticipate that there is around 220,000m<sup>3</sup> of water being stored.

2) Since a contractor has not been hired yet, the best information that we have at this point comes from the AMEC Winter Road Water Withdrawal estimate which is attached for your reference. It states:

*"Assuming half the water required comes from Contwoyto Lake (conservative since the first segment of the road will require the majority of the water to make snow), results in an estimated 2850 m<sup>3</sup> being required from Contwoyto Lake and an equal amount from Lynne Lake. The effect of this much water withdrawal on Contwoyto Lake would be minuscule. An estimated 0.27% of the volume of Lynne Lake would be withdrawn. From this it can be readily determined that no measurable effects on lake levels would result from water withdrawal for winter road use."*

Presently we aren't in a position to provide the rate at which water will be removed from the source as a contractor for this work has not been hired.

I hope that we've answered your questions.

Thanks.

Michael

Michael Westlake  
 Contaminated Sites | Sites Contaminés

Northern Affairs | Affaires du Nord

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>>> Cynthia Ene <[cynthia.ene@nwb-oen.ca](mailto:cynthia.ene@nwb-oen.ca)> 10/14/2016 4:33 PM >>>

Good Afternoon Michael, thanks for the call.

For future file referencing, please note that for now, the NWB has named the "JERICHO MINE SITE STABILIZATION PROJECT" as "8BC-JER---".

Could you confirm the following:

1) Off-stream storage of water (reservoir capacity):

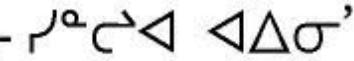
Approximately how much water is stored in the dams/dikes? Specifically, how much water will be diverted once the Dam and Dyke is breached. We understand that the goal is to return the watercourse back to its Natural flow.

2) The rate at which water is removed from the source (m3/day):

In your application you stated that about 5700 m<sup>3</sup> of water will be required to construct the land portions of the winter road, can you confirm where 100% of the water will be sourced from, and what the flow amount utilized per day will be (i.e max m<sup>3</sup> per day from source).

Thank you,



Cynthia Ene, MBA, P.Eng. - 

Technical Advisor- Conseillère Technique

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NUNAVUT WATER BOARD - OFFICE DES EAUX DU NUNAVUT  
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 Merci de penser à l'environnement avant d'imprimer ce courriel / Thank you for thinking of the environment before printing this email

On Fri, Oct 14, 2016 at 12:37 PM, Michael Westlake <[Michael.Westlake@aadnc-aandc.gc.ca](mailto:Michael.Westlake@aadnc-aandc.gc.ca)> wrote:

Hi Cynthia,

Good speaking with you this afternoon. Here's my contact.

Looking forward to hearing from you. Have a good weekend!

Michael

Michael Westlake

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**2 attachments**

 **AMEC Winter Road Water Withdrawal.pdf**

1772K

 **Jericho Stage Storage Curve.pdf**

60K