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To: [Phyllis Beaulieu](#); [Ian Rumbolt](#)
Cc: ar_enviro@yahoo.ca
Subject: Part G- Item 5. NWB1JER0410
Date: Monday, June 13, 2011 8:50:36 AM
Attachments: [JER-SWO-04 WQ02.xlsx](#)
[L1012896-2 T96.doc](#)
[L1012896-2 D48.doc](#)

June 13, 2010

Phyllis Beaulieu, Manager of Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, Nunavut
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Delivered by Email

RE: Notice of discharge from the Process Kimberlite Containment Area (PKCA)

In order to satisfy the conditions in PART G, Item 2a of water license NWB1JER0410 and maintain sufficient freeboard in the (PKCA) Shear Diamonds will be discharging water to Stream C3. In the 2010 Geotechnical Inspection (EBA) submitted in November of 2010 the elevation of 521.5 is indicated as the low point of Divider Dyke A. Current elevation of Divider Dyke A is 516.25. Current freeboard is 5.25 meters.

The discharge water meets quality criteria required by Part G, Section 6 and Part G, Section 7. Attached are analytical results from May 30, 2011 and daphnia and trout toxicity samples from June 09, 2011. The trout bioassay was completed as a pass/fail due to laboratory issues with the blanks (2% mortality in the lab control). Both the daphnia and trout bioassays passed acute lethality testing. Shear Diamonds is directing discharge from the Waste Water Treatment Plant (WWTP) to the PKCA and thus have included BOD₅ and Oil and Grease as required by PART G, Item G(i). The Faecal Coliform results will be submitted on Thursday.

Please note that sample site SWQ-04 is now called WQ02. The site water management sampling locations have been renamed to be clearly delineated from Aquatic Effects monitoring sites as discussed in the Site Water Management Plan submitted as part of Shear Diamonds water license renewal application package.

Should you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Michelle Tanguay
Jericho Environment Manager
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cc: Ian Rumbolt
Water Resource Officer
Indian and Northern Affairs Canada
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