

RE: Yesterday's lift and notes on today's progress

Kurylo, John

Sent: Monday, January 16, 2012 5:45 PM
To: Mark Valeriote [Markv@jdsmining.ca]
Cc: Wade, Lowell; Bay, Hope; Rykaart, Maritz
Attachments: AB 120105 ND FC.PDF (15 KB)

Hey Mark,

Based on field observations the lift placed yesterday was about 0.2 to 0.4m thick (a little thick, closer to 0.3+m range). Survey sent me some data so tonight I will try to plot up a quick isopach to see what was actually recorded/ as-built. We stopped placing yesterday around 16:45. It took until around 14:45-15:00 today to reach -2 degrees (so about 22 hours to freeze back). At about 14:20 today the temperature was around -0.9 degree then around 15:10 the temperature had already dropped to -2.5 degrees.

I think the main thing that we would try to change next time, to help speed up freeze back, would be to try and get the moisture contents a little lower (we were favouring things a little towards the wetter side to start off). This being said our tests/ checks were looking good. Based on the Nuke test that Jeff did the material was looking a little on the wetter side of things (closer to the 12-13% range). I think getting the moistures down to the 11 - 11.5% range would likely be optimum. Also I think smaller lifts that were all closer to the 0.2m range would help for quicker freezeback.

The temperature of the FCM it was coming out around 30 degrees. I think this is a reasonable temperature as it was helping to break up some of the frozen lumps in the feed and the material was starting to get the top hard crust shortly after it was spread by the excavator and compacted. If anything I would be tempted to go a little hotter to help with workability until all the kinks are ironed out. For the first load there was some issues with the compactor and they barely got the compactor onto the first truckload of material in time.

As noted in the daily the hard ground 'zig zag' roller had to be used for the first lift. This drum left the final surface compacted but not very level/ clean. The smooth drum compactor is apparently fixed now and is planned to go back out to the dam (a heater was broken).

Today after freeze back they started to clean the area placed yesterday. Unfortunately the compressor broke down, and due to the undulating and zig zag indented surface the bobcat and brush were unable to do a good job cleaning things. Placement was postponed until first thing in the morning. Night shift will be working on cleaning the area where they want to place first thing. Attached to this email I have attached a sketch that Nuna survey gave me to help with my inspections. As you will see the area that they were hoping to place is again in the central area and is not too large (I would say about 3 to 4 truckloads to cover the area in the old 'fish bowl'). Around the central trench area the side slopes block the wind very well. It's actually a pretty nice place to hang out and take test but perhaps not the best place to get freeze back readily.

Well hopefully the weather clears up and you can make it in first thing tomorrow.

jkurylo@srk.com

Staff Consultant, EIT

SRK Consulting (Canada) Inc.

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Vancouver, V6E 3X2, Canada

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Direct: +1-604-628-2570

-----Original Message-----

From: Mark Valeriote [<mailto:Markv@jdsmining.ca>]
Sent: Monday, January 16, 2012 3:14 PM
To: Kurylo, John
Subject: Yesterday's lift

Hello John,

Two questions regarding the frozen core material placed yesterday:

- 1) How thick was the lift?
- 2) How long did it take before it was -2 or colder?

Regards,

Mark Valeriote

Re: Yesterday's lift and notes on today's progress

Mark Valeriote [Markv@jdsmining.ca]

Sent: Monday, January 16, 2012 5:51 PM

To: Kurylo, John

Cc: Wade, Lowell; Bay, Hope; Rykaart, Maritz

Thanks for the feedback John. Hopefully I will get to site tomorrow and we can review operations, etc.

----- Original Message -----

From: Kurylo, John [<mailto:jkurylo@srk.com>]

Sent: Monday, January 16, 2012 05:45 PM

To: Mark Valeriote

Cc: Wade, Lowell <lwade@srk.com>; Bay, Hope <HopeBay@srk.com>; Rykaart, Maritz <mrykaart@srk.com>

Subject: RE: Yesterday's lift and notes on today's progress

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jkurylo@srk.com

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Regards,

Mark Valeriote

RE: Hope Bay Test Results - 2012/02/19 Update

Mark Valeriotte [Markv@jdsmining.ca]

Sent: Sunday, February 19, 2012 8:05 AM**To:** Palczewski, Ernest [epalczewski@eba.ca]; Kurylo, John; Wade, Lowell; Rykaart, Maritz; Bay, Hope; EBA.Hopebay [hopebayteam@eba.ca]**Cc:** Orr, Jeff [JOrr@eba.ca]; Klassen, Renata [rklassen@eba.ca]; Borowski, Lawrence; Miller, Megan; McGregor, Murray; Stirling, Jennifer [jmsirling@eba.ca]; Bradshaw, Thomas [tbradshaw@eba.ca]; Zschuppe, Robert [rzschruppe@eba.ca]; Horne, Bill [bhorne@eba.ca]; Miskolczi, Iozsef

Please ensure all reports are changed to truly reflect the new material that is being used for core construction. We are now longer using a blend of fines and frozen core material that was produced in 2011. The field trials conducted on February 15, and 16; and the material placed on February 17 and 18 is the 5 mm minus material that was recently produced.

Mark Valeriotte
Construction Manager
JDS Energy & Mining Inc.

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From: Palczewski, Ernest [mailto:epalczewski@eba.ca]**Sent:** Sunday, February 19, 2012 7:59 AM**To:** Palczewski, Ernest; Kurylo, John; Wade, Lowell; Rykaart, Maritz; Mark Valeriotte; Bay, Hope; EBA.Hopebay**Cc:** Orr, Jeff; Klassen, Renata; Borowski, Lawrence; Miller, Megan; McGregor, Murray; Stirling, Jennifer; Bradshaw, Thomas; Zschuppe, Robert; Horne, Bill; Miskolczi, Iozsef**Subject:** RE: Hope Bay Test Results - 2012/02/19 Update

Hello everyone,

Please find attached the updated 'unreviewed draft' test results from recent North Dam material testing. Additional results to follow in the coming days.

Thanks,
Ernest

Ernest Palczewski B.Sc., Geol.I.T. | Junior Geologist - Arctic
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epalczewski@eba.ca

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North Dam - Deep Settlement Points

Wade, Lowell

Sent: Friday, May 04, 2012 6:16 AM

To: garys@nunalogistics.com

Cc: Bay, Hope; Rykaart, Maritz

Hi Gary,

To summarize the discussions between Nuna and SRK for completing the installation of the Deep Settlement Points:

- 1) Backfill the borehole to 0.5 m below the cased depth using ¾" crush material
- 2) The Volume of back fill material to be measured and compared to the estimated quantity
- 3) Lengths of 4" diameter Vitriolic pipe can then be welded and installed within the casing
- 4) The stick-up of the outer casing can then be welded to the design height
- 5) A top cap fabricated and placed over the installation

Please let me know if I have missed anything

Sincerely,
Lowell

Lowell Wade *M.Sc., P.Eng., P.Geo.*

Senior Consultant



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