

DAILY REPORT #41 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

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Reviewed by:		Project #:	1CH008.058.0320
Role	Company	Personnel – Position	On Site
Client	Hope Bay Mining Limited (HBML)	Angela Holzapfel – ESR Compliance Manager David Vokey – ESR Coordinator Don Ethelston – HSLP Advisor Dean Wold - Safety Jill Turk – ESR Coordinator Katsky Venter – ESR Manger Michelle Tanquay – ESR Site Manager Stirling Kelly – HSLP Advisor	No No No No Yes No Yes Yes
	JDS	Lloyd Jackson – Mechanical Superintendent Doug Fielding – Construction Manager Ishan Fechter – Construction Coordinator Jerry Graham – Construction Manager Kevin Whieldon – Project Coordinator Mark Valeriote – Construction Manager	Yes No Yes Yes No Yes
Engineering Design Consultants	SRK Consulting (Canada) Inc.	John Kurylo – Site Engineer Megan Miller – Site Engineer Lawrence Borowski – Site Engineer Murray McGregor – Site Engineer Iozsef Miskolczi – Site Engineer	No No No Yes Yes
	EBA Engineering Consultants Ltd.	Jeff Orr – Project Manager Jennifer Stirling – Geologist Thomas Bradshaw – Junior Engineer Ernest Palczewski – Geologist	No No Yes Yes
Earthworks Contractor	Nuna Logistics	Ben Vostermans - Foreman Bradford Watkin – QC Manager Doug Haverland – Area Superintendent Gary Sodhi – Field Engineer Georges Cornelissen – Survey Manager Jeff Roberts - Surveyor Jim Cardinal – Foreman Kevin Oakes – Project Engineer Kevin Kozdrowski – Foreman Kyle Kuntz – Project Engineer Margaret Caley – Surveyor Matt McKay – Civil Supervisor Mike MacMaster – Surveyor Mike Price – Field Engineer Nick Stoneberger – Superintendent Rick Peter – Foreman Ron MacMaster – Surveyor Simon Chipper – Civil Supervisor	Yes No Yes Yes No Yes Yes No Yes Yes Yes Yes No No No Yes No No
External Distribution List:	SRK: Maritz Rykaart, Lowell Wade, Seema Kang, Silkie Wong EBA: Robert Zschuppe Nuna: Chris Petrovic JDS: Bob Prince-Wright, Calvin Goldschmidt HBML: Dave Power, Gerry Benson		
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WEATHER (ROBERTS BAY)

<http://www.wunderground.com/weatherstation/WXDailyHistory.asp?ID=INUNAVUT3>

Temperature/Wind Chill (°C)	6AM: -17/-24	12PM: -20/-29	5 PM: -24/-32	12 AM: -26/-29
Precipitation (mm)	Rain: None		Snow: None	
Conditions	Day Shift: Sunny, mild winds.		Night Shift: Calm wind. Clear sky.	
Daily norms (°C)	24 hour high: -16.7		24 hour low: -27.4	

HEALTH, SAFETY AND ENVIRONMENT

- Iozsef Miskolczi and Thomas Bradshaw attended the Nuna evening toolbox meeting.
- Ernest Palczewski attended the daily toolbox meeting.

COMMENTS, CORRESPONDENCE AND ACTIVITIES**DAILY MEETING WITH NUNA AND HBML TEAM:**

- The daily meeting was attended by ADCO, Newmont [Jill Turk, Sterling Kelly], Nuna [Doug Haverland, Kyle Kuntz], JDS [Jerry Graham, Mark Valeriote, Lloyd Jackson, Ishan Fechter], and SRK [Murray McGregor]

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> • Newmont safety and JDS need all information available on the incident involving a smashed hand in a seacan door for a conference call this morning; Nuna will provide details before this call. • ESR suggested shop towels held between rock support mesh to be placed under standing vehicles to capture leaking fluids. • ESR inquired about MSDS sheets for bentonite powder stored near the frozen core plant.
North Dam	<ul style="list-style-type: none"> • SRK reported freeze back on the single bead thermistors and more liner exposure during nightshift. • SRK/EBA have four sieve results from yesterday's crushing samples. • Nuna stated they plan to place FCM at the dam; trial placements will begin after today's placement is completed.
Water Management Structures	<ul style="list-style-type: none"> • Nuna stated they will be drilling for sump #1 after access is build. • Nuna plans to install sump #2 when a crane becomes available.
General	<ul style="list-style-type: none"> • The tucker will be driving to Doris Tower to install new batteries.

SURVEY:

Required	<ul style="list-style-type: none"> • As-built survey of Transition placed Feb 11, 2012 • As-built survey of ROQ placed Feb 11, 2012 • As-built survey of Transition placed Feb 12, 2012 • As-built survey of ROQ placed Feb 12, 2012 • As-built survey of Transition placed Feb 13, 2012 • As-built survey of ROQ placed Feb 13, 2012 • As-built survey of Transition placed Feb 15, 2012 • As-built survey of ROQ placed Feb 15, 2012 • As-built survey of FCM placed on Feb 15, 2012
Data Received	<ul style="list-style-type: none"> • None
Outstanding	<ul style="list-style-type: none"> •

Upcoming

- Survey of FCM after placement (on going).
- Survey of Doris North Diversion berm excavation.
- Survey of exposed GCL surface

NORTH DAM/FROZEN CORE PLANT PAD:**Multi-Bead Thermistors**

- The thermistor buried in snow (ND-VTS-085-DS) was found with the help of the surveyor. The cable was brought to surface and placed on a pylon just downstream of its original location.
- The three thermistors on the downstream side of the dam were downloaded. All are working as intended.

Frozen Core Plant*Dayshift*

- The plant had a smooth start-up and material was ready for placement within the first 15 minutes.
- Material was identified as wet after the first couple loads were placed and the water was dialed back.
- One truck load was sent to reject when the feed was temporarily jammed.
- The plant was turned off in the afternoon and the belts were cleaned; then it was started up again using new crush for test batches.

Nightshift

- No activity, no FCM was produced.
- No frozen core plant operator was available on nightshift.
- Frozen Core material was hauled from the crusher and stockpiled at the FCP.
- The frozen chunks rejected by the grizzly at the FCP feed hopper were cleaned up and hauled to the crusher.

Dam Shell*Dayshift*

- No activity.

Nightshift

- Transition material was placed in a lift of about 30 cm from Sta. 1+20 to Sta.1+70. Vibratory compaction was applied, with care to maintain a buffer zone of about 50 cm along the frozen core placed today on day shift (from sta. 1+30 to sta. 1+70).
- A lift of ROQ approx. 1.7 m thick was placed on the downstream side of the core, from sta. 1+30 to sta.1+70. The ROQ was toed out against the placed transition. The placed ROQ is provenant from the previously stockpiled material on the downstream side. A few small boulders of hard snow were noted in the ROQ. Vibratory compaction was applied.

Key Trench/ Central Core*Dayshift*

- Placement started near 9:00AM; it was planned to work through the center.
- One drilled core turned out melted and prompted a change of placement direction to the northeast end.
- Some sweeping was required during placement due to the change in plans.
- Thermistor cable ND-HTS-175-33.5 was installed in the pre-dug trench.

Nightshift

- No FCM placement.
- Removal of the frozen 5/8 crush from above the HDPE liner continued. The HDPE was exposed from station 1+70 to about station 1+85. The 5/8 crush from the remainder of the HDPE was partially removed using the CAT 345 excavator equipped with special digging teeth, aka "tiger teeth".
- The single bead thermistors were monitored throughout the night for freeze-back. At the end of the night shift temperature was hovering around zero degrees.

- The CAT 345 excavator was used to remove the 5/8 crush placed in the north-east end of the keytrench. The crush from the ramp into the key-trench was also removed and reconstructed using transition material.
- The extent of the core placed in the key-trench in the north-east end was marked up by survey, with cut/fill indicators to help with removal of the 5/8 crush.

Field Geotechnical Testing, Laboratory and Sampling

SINGLE BEAD THERMISTOR STATUS

Installed Today			Active			Destroyed / Abandoned		
ID	Station	US/DS/Center	ID	Station	US/DS/Center	ID	Station	US/DS/Center
SB13	1+35	Center	SB4	1+40	Center			
SB7	1+72	U/S	SB5	1+10	Center			
			SB12	0+60	Center			

- A summary of today's material testing progress is presented in the tables below.

PARTICLE SIZE DISTRIBUTION SUMMARY

Collected	Testing In Progress	Completed
HB12-CR-CORE-PSD34-20120215		HB12-CR-CORE-PSD34-20120215
HB12-CR-CORE-PSD35-20120215		HB12-CR-CORE-PSD35-20120215

MOISTURE CONTENT SUMMARY

Collected	Testing In Progress	Completed
HB12-FCP-CORE-MC109-QA-20120215		HB12-FCP-CORE-MC109-QA-20120215
HB12-FCP-CORE-MC110-QA-20120215		HB12-FCP-CORE-MC110-QA-20120215
HB12-FCP-CORE-MC111-QA-20120215		HB12-FCP-CORE-MC111-QA-20120215
HB12-FCP-CORE-MC112-QA-20120215		HB12-FCP-CORE-MC112-QA-20120215
HB12-FCP-CORE-MC113-QA-20120215		HB12-FCP-CORE-MC113-QA-20120215
HB12-CR-CORE-MC114-QA-20120215		HB12-CR-CORE-MC114-QA-20120215
HB12-FCP-CORE-MC115-QA-20120215		HB12-FCP-CORE-MC115-QA-20120215
HB12-FCP-CORE-MC116-QA-20120215		HB12-FCP-CORE-MC116-QA-20120215
HB12-FCP-CORE-MC117-QA-20120215		HB12-FCP-CORE-MC117-QA-20120215
HB12-FCP-CORE-MC118-QA-20120215		HB12-FCP-CORE-MC118-QA-20120215
HB12-FCP-CORE-MC119-QA-20120215		HB12-FCP-CORE-MC119-QA-20120215
HB12-FCP-CORE-MC120-QA-20120215		HB12-FCP-CORE-MC120-QA-20120215
HB12-FCP-CORE-MC121-QA-20120215		HB12-FCP-CORE-MC121-QA-20120215
HB12-FCP-CORE-MC122-QA-20120215		HB12-FCP-CORE-MC122-QA-20120215

DRILLED CORE

Collected	Testing In Progress	Completed
		HB12-ND-CORE-DC35-20120214

DORIS NORTH CAMP:

- Cat 345 Excavator completed some mucking and snow clearing.
- Westarc performed some additional drilling for spot blasting.

SECONDARY ROAD:

- No activity.

QUARRY #2:

- Crushing started in the morning and continued throughout the day; two samples were taken using the loader.
- All soil in the sampling box was loaded into pails and reconstituted in the EBA soils lab for sieve and moisture tests.

PHOTOS:



Photo 1: Drilled core attempt near the center of the dam. Melted core prompted a change in placement direction.



Photo 2: Placement progressing toward the northeast.



Photo 4: End of today's placement up to chainage 1+90.



Photo 5: Test batches of new frozen core material at the end of dayshift.



Photo 3: Thermistor string ND-HTS-175-33.5, installed with bentonite powder water stops.



Photo 6: Workers exposing the HDPE liner around Sta. 1+80. A jackhammer was used to loosen up frozen the 5/8 crush. A few holes punched in the HDPE and the underlying GCL by the jackhammer can be seen in the foreground.



Photo 7: The CAT 345 excavator equipped with tiger teeth is removing the 5/8 crush in the north-east corner of the key-trench.

FIGURES:

Figure 1 – North Dam Progress – February 15th Dayshift

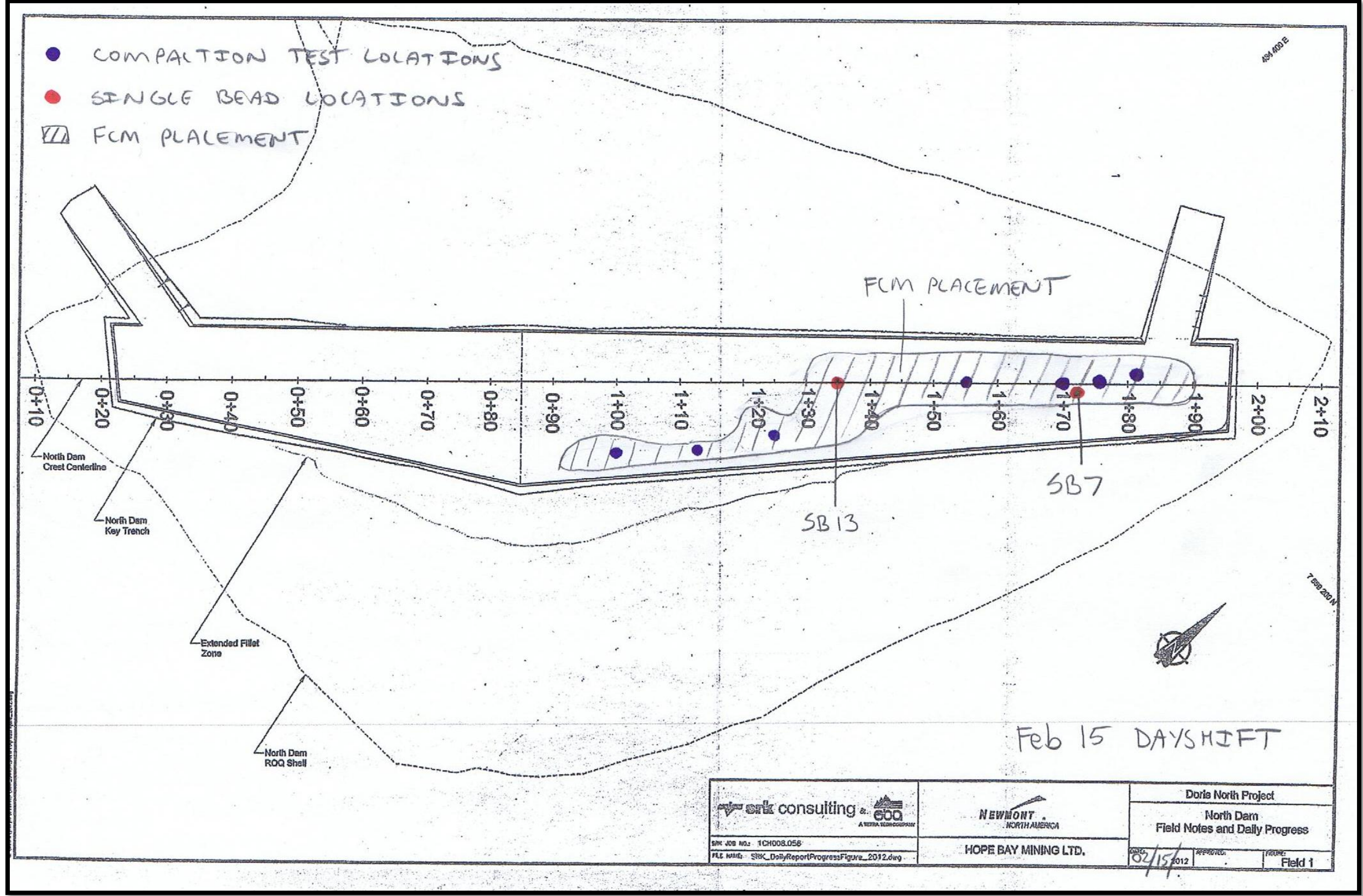


Figure 2 – North Dam Progress – February 15th Nightshift

