

DAILY REPORT #84 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	Iozsef Miskolczi Megan Miller	Date:	2012.03.29
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 Out No Yes Yes No No
	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 Calvin Goldschmidt – Construction Coordinator	No Out No In No 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 Lowell Wade – Senior Engineer	No Yes No No Yes No
	EBA Engineering Consultants Ltd.	Jeff Orr – Project Manager Jennifer Stirling – Geologist Thomas Bradshaw – Junior Engineer Ernest Palczewski – Geologist	No No Out Yes
Earthworks Contractor	Nuna Logistics	Benny Vostermans – Foreman (Night shift) Doug Haverland – Area Superintendent Gary Sodhi – Field Engineer Georges Cornelissen – Survey Manager Jeff Roberts - Surveyor Jim Cardinal – Foreman (Day Shift) Jordan Gunter – Foreman Kevin Kozdrowski – Foreman Kyle Kuntz – Project Engineer Margaret Caley – Surveyor Matt McKay – Civil Supervisor Mike MacMaster – Surveyor Mike Price – Field Engineer Rick Peter – Foreman Ron MacMaster – Surveyor Simon Chipper – Civil Supervisor	Yes No In Yes No Yes Out No No Out No Yes Out In No Yes
External Distribution List:	SRK: Maritz Rykaart (Leaving site), Lowell Wade, Seema Kang, Silkie Wong EBA: Robert Zschuppe Nuna: Chris Petrovic HBML: Dave Power		
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WEATHER (ROBERTS BAY)

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

Temperature/Wind Chill (°C)	6AM: -20/-29	12PM: -21/-29	6 PM: -20/-28	12 AM: -18/-29
Precipitation (mm)	Rain: None		Snow: Traces	
Conditions	Day Shift: Overcast light snow, cool wind. Clearing around 10 am.		Night Shift: Overcast, light to moderate wind. Light flurries.	
Daily norms (°C)	24 hour high: -16.0		24 hour low: -21.6	

HEALTH, SAFETY AND ENVIRONMENT

- Megan Miller attended the dayshift Nuna toolbox meeting.

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

- The daily meeting was attended by Nuna [Trevor Sorken, Lucas Evans, Simon Chipper], Newmont Safety [Don Ethelston] ESR [Katsky Venter], JDS [Doug Fielding, Calvin Goldschmidt], SRK [Maritz Rykaart, Megan Miller]

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> Two safety incidents occurred yesterday. No injuries occurred with either incident. <ol style="list-style-type: none"> At waste management an aerosol can exploded when workers were raking ashes. A haul truck window broke. ESR had not incidents to report. Cleaning of the CAT 345 excavator for use at the Jetty was discussed. The excavator will get cleaned up tonight.
North Dam	<ul style="list-style-type: none"> No freeze back on the material placed March 26. Yesterday SRK asked survey for an estimate of the remaining ROQ and transition material for placement at the dam. They estimate 12,000 to 13,000 m³ of ROQ remain and 1,250 m³ of transition. SRK asked why the transition material was being stockpiled at the frozen core plant pad. Nuna plans on using a CAT 773 haul truck to haul this material from the frozen core plant stockpile; a loaded CAT 773 cannot run on the ice. SRK has marked the thermistor cables with the broken connectors with orange flagging tape, so that when the electricians are available they can be repaired.
Water Management Structures	<ul style="list-style-type: none"> Yesterday there were discussions during the day regarding the portion of the diversion berm that runs adjacent to the road. The slope of the berm was steepened and the slope toe moved slightly east to prevent the berm from encroaching on the roadway.
General	<ul style="list-style-type: none"> Nuna hopes to blast on Sunday, but is thinking Monday is more likely, as they are not sure that they will be drilled out on Saturday. Discussions were had on whether it was possible to cut holes from the blast so that it can occur on Sunday. Nuna plans on going to the Jetty Saturday. Nuna plans on sending Layfield offsite on Monday. Nuna will only be down to one surveyor (total) starting Monday. An additional surveyor should be coming in next Thursday. Nuna is going to get the wood chipper started today.

SURVEY:

Required	<ul style="list-style-type: none"> To date as-builts of Doris Diversion Berm (ROQ, underliner crush, liner, overliner crush)
Data Received	<ul style="list-style-type: none"> As-built surveys of transition material for the period of March 24-28. All as-built ROQ and transition material surveys since the beginning of the year.
Outstanding	<ul style="list-style-type: none"> To date as-builts of Doris Diversion Berm (ROQ, underliner crush, liner, overliner crush)
Upcoming	<ul style="list-style-type: none"> Diversion Berm material as placed Dam material (ongoing)

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

- No multi-bead thermistor readings were collected of the upstream thermistors and the thermistor clusters at station 1+75, 0+85 and 1+30.
- The Nuna electricians fixed the connector for ND-HTS-175-32.5, ND-VTS-040-KT, ND-HTS-085-25
- The crush surrounding ND-HTS-085-33.5 was dug back and the cable examined; the cable had no visible damage.

Frozen Core Plant*Dayshift*

- No activity.

Nightshift

- No activity

Dam Shell*Dayshift*

- The CAT D8 dozer placed ROQ along the upstream slope of the 2nd lift of ROQ over the core placed yesterday.
- The final lift of ROQ along the crest of the dam was started. This lift extends from the north end to station 1+35.
- No packing of the ROQ was observed, this is due to crew change.

Nightshift

- Placement of the final lift of ROQ continued. This lift reached station 1+20 by end of dayshift.
 - A few oversize were noted in the fill. The issue was discussed with the foreman who reminded the loader operator in the quarry and the dozer operator placing the ROQ that maximum size of rock for this thinner lift is 500 mm opposed to 900 mm specified for the full lift thickness.
- The ROQ shell on the upstream side was shaped to meet the 6H:1V grade and finished with the cleaning bucket of the excavator. The finished surface reaches from the toe of the shell to the top of the final lift on a width of about 10 meters from station 1+40 to 1+50. Vibratory compaction was applied on this surface, but it did not cover the entire finished area.
 - Some additional work is required to blend in and finish the final surface of ROQ on both the upstream and downstream sides.
- The first and second lifts of ROQ placed yesterday was tapered off and shaped to create vehicle access into the keytrench on the upstream side. The finished ramp was compacted.
- ROQ was of good quality, with adequate fines and some oversize.
- Compaction of the final lift on the crest of the dam is required.

Key Trench/ Central Core*Dayshift*

- No activity.
- Freeze back of the single bead thermistors placed in the last lift of core material was monitored. Two of the beads had not achieved freeze back by the end of the shift.

Nightshift

- Freeze-back of the frozen core placed on Monday night was monitored. SB9 located around station 0+60 was still indicating around zero degrees in the deep part of the core, while SB 20 was indicating that freeze-back was reached by the end of the nightshift, at 6AM. The third, shallow SB 6, was indicating around -14 degrees C.
- The Frost Fighter used to thaw the ice and gravel at the toe of the dam core was removed from the keytrench and moved to the FCP.

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
			SB9	0+60	CL			
			SB20	0+65	CL			
			SB6	0+70	CL			

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

PARTICLE SIZE DISTRIBUTION SUMMARY

Collected	Testing In Progress	Completed
None	None	None

MOISTURE CONTENT SUMMARY

Collected	Testing In Progress	Completed
None	None	None

DRILLED CORE

Collected	Testing In Progress	Completed
HB12-ND-CORE-DC89-QA-20120329	HB12-ND-CORE-DC89-QA-20120329	None

COMPACTION TESTING SUMMARY

Number of Tests	Material	Tested By	Shift	Notes
0	N/A	EP	Day	No FCM Placed
0	GCL cover	TB	Night	No FCM Placed

DORIS NORTH DIVERSION BERM:

- Placement of the bentonite 'plug' and overliner crush was continued to station 027.
- Lower geotextile, underliner crush, underliner geotextile and HDPE liner were placed in the corner near the culverts (station 000 to 027).

QUARRY #2:

- One drill continues to drill on both day and night shifts.
- The CAT 385 excavator was used to load ROQ material.

GENERAL:

- Maritz Rykaart left site.
- The EBA personnel on site have been reduced to one person. Thomas Bradshaw left site while Ernest Palczewski will cover the lab work tasks on both day and shifts, as required. Overliner core is expected to be placed on nightshift only.

PHOTOS:

Photo 1: Progress photo of North Dam from photo point 2. Looking north west.



Photo 2: Diversion Berm - Layfield seaming HDPE liner near station 020 of the diversion berm.



Photo 3: North Dam - CAT D8 dozer starting to place final/upper lift of ROQ on the North dam.



Photo 4: Diversion Berm - Excavator placing ROQ material on diversion berm. Photo looking east along diversion berm.



Photo 5: North Dam – excavator shaping the first lift of ROQ to create vehicle access ramp into the key trench. Photo looking east around station 0+90



Photo 6: North Dam – compactor working on the second lift of ROQ after it was tapered to create vehicle access into the keytrench.



Photo 7: North Dam – CAT D8 dozer placing ROQ on the final lift of the dam shell. Photo looking north-east from station 1+00.



Photo 8: North Dam – progress photo of final lift of ROQ. Photo looking north-east from station 1+00.



Photo 9: North Dam – progress photo of the final lift of ROQ. Photo looking south-west along the upstream crest of the dam shell from Sta. 1+90.



Photo 10: Excavator placing ROQ material on diversion berm. Photo North Dam – progress photo of the final lift of ROQ. Photo looking south-west along the downstream crest of the dam shell from Sta. 1+90.

FIGURES:

Figure 1: North Dam Progress Figure

