

DAILY REPORT #60 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	John Kurylo Lawrence Borowski	Date:	2012.03.05
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 Yes No Yes No Yes Yes 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	Yes No No Yes Yes 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	In No Yes No Out No
	EBA Engineering Consultants Ltd.	Jeff Orr – Project Manager Jennifer Stirling – Geologist Thomas Bradshaw – Junior Engineer Ernest Palczewski – Geologist	Yes Yes No No
Earthworks Contractor	Nuna Logistics	Bradford Watkin – QC Manager Doug Haverland – Area Superintendent Gary Sodhi – Field Engineer Georges Cornelissen – Survey Manager Jeff Roberts - Surveyor Jim Cardinal – Foreman Jordan Gunter – Foreman Kevin Oakes – Project Engineer Kevin Kozdrowski – Foreman (Night shift) Kyle Kuntz – Project Engineer Margaret Caley – Surveyor Matt McKay – Civil Supervisor Mike MacMaster – Surveyor Mike Price – Field Engineer Nick Stoneberger – Superintendent Rick Peter – Foreman (Day shift) Ron MacMaster – Surveyor Simon Chipper – Civil Supervisor	No No Yes No Yes No No No Yes No No Yes Yes No Yes Yes In 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: -34/-52	12PM: -34/-53	6 PM: -30/-49	12 AM: -
Precipitation (mm)	Rain: None		Snow: None	
Conditions	Day Shift: Clear, windy, very cold. Winds ~ 30kph increasing to >40 kph by late afternoon. Whiteout on the ice road and to Quarry 2.		Night Shift: Clear, cold and windy	
Daily norms (°C)	24 hour high: -30C		24 hour low: - 34C	

HEALTH, SAFETY AND ENVIRONMENT

- Wolf spotted by the sedimentation pond
- John Kurylo and Jennifer Stirling attended the nightly Nuna line-up and safety meeting.

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

- The daily meeting was attended by HBML [Katsky Venter], Newmont [Dean Wold], JDS [Gerry Graham, Kevin Whieldon, Mark Valeriote,]; Nuna [Nick Stoneberger] and SRK [Lawrence Borowski, Jeff Orr]

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> • Safety: Glare ice on Doris Lake Road approach to the dam. Road was scarified last night. • ESR: No issues.
North Dam	<ul style="list-style-type: none"> • Good day yesterday with 6 hours production. Placed from Sta 0+70 to Sta 1 +40. Night shift placed three loads in the wedge at the north-east corner. • Discussed issues with the frozen core mixer. Recently there have been issues starting the burner. It is also known that the drum is not tracking properly. • A call will be made to the manufacturer to discuss issues. In the meantime nozzles have been inspected and fuel source covered and heated. • ROQ hauled to the downstream side when plant is not operating.
Water Management Structures	<ul style="list-style-type: none"> • Lids for sumps are not being manufactured at this time. • Excavator was placing ROQ in the key trench until it threw a track. • Track expected to be replaced this morning and work continue. • Layfield now scheduled back on March 8th. • Continue placing ROQ in the key today as well as some snow clearing. •
General	<ul style="list-style-type: none"> • Drilling at quarry 2 to continue • 3 excavators are now down, • Meridian will be here testing ground cables around the gensets and portal on Thursday. There is a need to have these areas cleaned and ready when Meridian arrives.

SURVEY:

Required	•
Data Received	<ul style="list-style-type: none"> • Core sample coordinates (Rec'd Mar 04) • Frozen core volumes (Rec'd Mar 05) • QC cross sections of work in progress (Rec'd Mar 05)
Outstanding	•
Upcoming	<ul style="list-style-type: none"> • Survey of FCM after placement (ongoing). • Survey of Doris North Diversion berm (ongoing).

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

- Multi-bead strings ND-HTS-085-KT, ND-HTS-085-29.4, ND-HTS-085-25.3, ND-HTS-130-KT, ND-HTS-130-28.8, ND-HTS-130-31.0, ND-HTS-175-KT, ND-HTS-175-32.5, ND-HTS-175-33.5 were read.
 - ND-HTS-175-32.5 has been previously noted to have a fully broken plastic connector housing.
 - The pins were manually inserted into the read-out box. Two pins appear to have been pushed downwards. Readings were not achieved on the aforementioned two pins. This string needs a new top plastic connector at a later date.

Frozen Core Plant*Dayshift*

- Maintenance on the plant

Nightshift

- Maintenance and clean-up was performed at the plant. Fines were cleaned from the burner. Burner was tested and the torch is again at full strength.

Dam Shell*Dayshift*

- Hauled ROQ to the downstream side all day.
- Compaction with the 10 ton packer during the day
- Quality of ROQ is good. Lift thicknesses are not exceeded.
- Ramp constructed on the side of the dam shell. Excavator working to backslope the dam shell.

Nightshift

- Snow was cleared on the downstream dam shell from ~ station 0+60 to 1+30.
- ROQ was placed on the downstream side around station 0+90 to 1+20. Material was spread with a dozer. No compaction was observed on this material.
- Minor snow and snow with some rock was cleared from the upstream dam shell around 1+40 to 1+75.

Key Trench/ Central Core*Dayshift*

- Snow clearing on upstream side at ~ Stn 60
- Labourers maintained hoarding on the upstream edge of the key trench, where two frost fighters were set up to melt ice and 5/8 crush over the GCL liner.
- Difficulty maintaining frost fighters under the windy conditions.

Nightshift

- No FCM was placed on nightshift.
- Freezeback of the previously placed FCM was achieved around 1:45 am.
- After freezeback was achieved the excavator switched over to clearing snow from the upstream slope. Snow clearing resulted on the upstream slope around 1+90 to ~1+75 and from ~ 1+30 to 0+70. The slightly overbuilt steps around the base of the 2.5H:1V upper GCL slope was slightly scraped back with the excavator bucket.
- Hording and heating with frost fighters was completed over the GCL around station 0+50 area.
 - Due to the cold weather conditions issues were experienced keeping the frost fighters running at the beginning of nightshift.
 - Some hand shovelling of frozen material over the GCL liner was completed later in the night.
- The area where a notable section of GCL liner was ripped out (around 0+70) was inspected by SRK. Approximately 0.5 to 1m of FCM is still expected to be removed from the slope edge to expose the damaged segment of GCL and obtain an adequate overlap when installing a new segment of liner in this area. Additional discussion on this area to result in the coming days.

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
			SB19	0+80	D/S	SB20	1+45	U/S
			SB18	1+45	U/S			

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

PARTICLE SIZE DISTRIBUTION SUMMARY

Collected	Testing In Progress	Completed

MOISTURE CONTENT SUMMARY

Collected	Testing In Progress	Completed
		HB12-FCP-CORE-MC254-20120304 HB12-ND-CORE-MC255-20120304 HB12-ND-CORE-MC256-20120304 HB12-FCP-CORE-MC257-20120304 HB12-ND-CORE-MC258-20120304 HB12-FCP-CORE-MC259-20120304 HB12-FCP-CORE-MC260-20120304 HB12-ND-CORE-MC261-20120304 HB12-FCP-CORE-MC262-20120304 HB12-FCP-CORE-MC263-20120304 HB12-FCP-CORE-MC264-20120304 HB12-ND-CORE-MC265-20120304 HB12-FCP-CORE-MC266-20120304 HB12-ND-CORE-MC267-20120304 HB12-ND-CORE-MC268-20120304

- Two cores were drilled on nightshift. Power was sourced from light plants for the drill and vacuum.
 - HB12-ND-CORE-DC66-20120305 was drilled around station 1+11 on the upstream;
 - Surveyed location: 7559146.04 North, 434380.14 East, 32.74m Elev
 - HB12-ND-CORE-DC67-20120305 was drilled around station 0+84 around the centerline.
 - Surveyed location: 7559124.67North, 434359.31East, 32.71m Elev

DRILLED CORE

Collected	Testing In Progress	Completed
HB12-ND-CORE-DC66-20120305		HB12-ND-CORE-DC64-20120304
HB12-ND-CORE-DC67-20120305		HB12-ND-CORE-DC65-20120304

DORIS NORTH DIVERSION BERM:

- Excavator placing ROQ in the key starting at Sta 5+80
- Survey laid out limits and staked.
- Snow was pushed back with a bucket from the top of the bank.
- Limited progress due to running out of ROQ.
- Some ROQ was moved with the excavator to the east end of the berm. .

DORIS SUMPS:

- No activity: sumps are covered with tarps
- Construction of the lids has not started.

QUARRY #2:

- Two drills working on dayshift only.
- ROQ was hauled to the north dam all day.

GENERAL:

- Overall weather conditions were extreme, with cold temperatures and strong winds.
- Little activity by labourers.
- No attempts to clear snow in the key trench at the berm due to blowing snow.
- SRK nightshift completed a crew change.

PHOTOS:



Photo 1: Progress photo from photo point 1, facing SSE



Photo 2: Progress photo facing SW



Photo 3: Progress photo Facing south late afternoon



Photo 4: Sump 1



Photo 5: Sump 2

Photo 6: FCM work area facing south Sta 1+35 to Sta 0+70



Photo 7: Excavator sloping down stream ROQ



Photo 8: Dam shell construction. Vibratory packer worked most of the day.



Photo 9: Progress filling key trench.



Photo 10 : Excavator working on clearing snow from upstream core slope, ~ WSW view.



Photo 11 : Close up of drilled core 66, drilled around station 1+11 on the upstream. Note that less glycol was used when drilling the first half of this core.



Photo 12 : Close up of drilled core 67, drilled around station 0+84 around the centerline.



Photo 13 : ~SSE view of nightshift ROQ placement, looking towards downstream dam shell.

FIGURES:

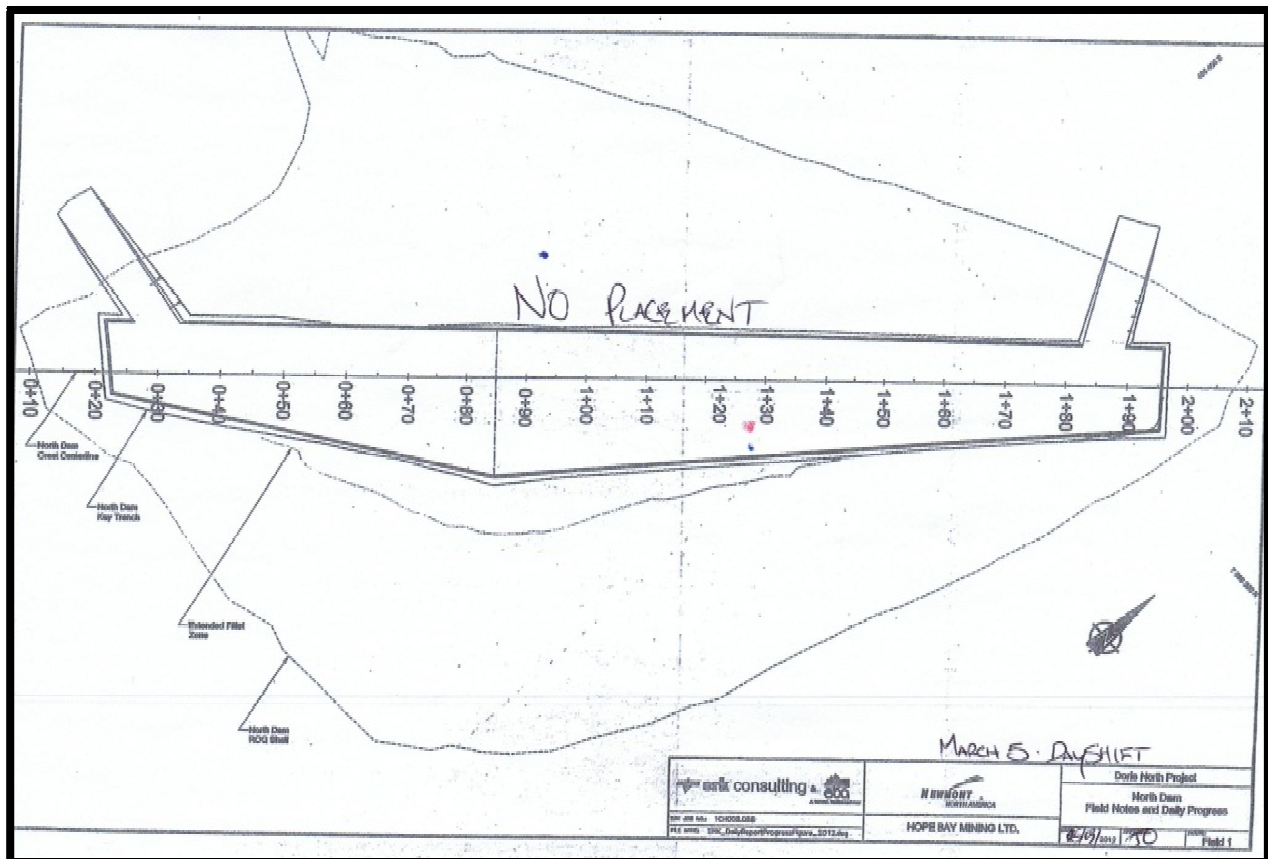


Figure 1 – North Dam Progress – Dayshift

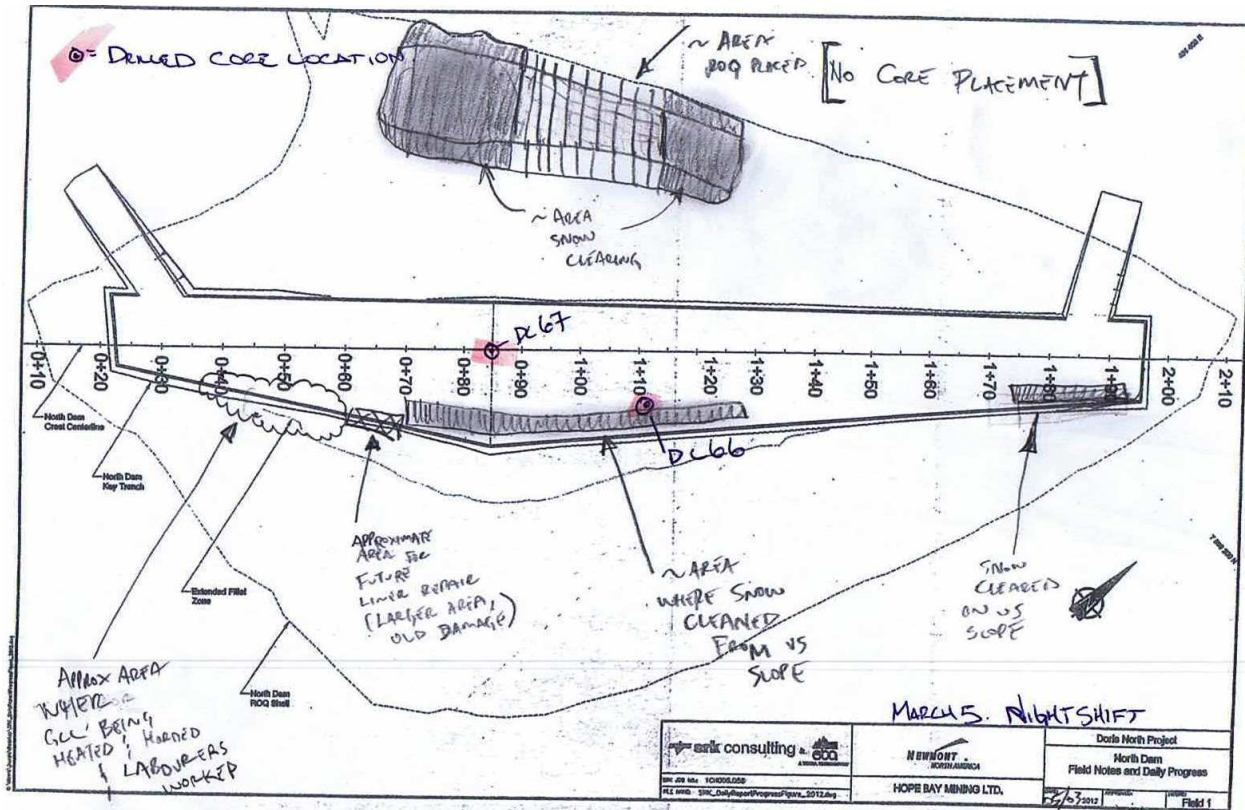


Figure 2 – North Dam Progress – Nightshift