

## DAILY REPORT #49 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	Murray McGregor Iozsef Miskolczi	Date:	2012.02.23
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 In No Out No 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 Yes Out No In Out
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 In Yes Yes
	EBA Engineering Consultants Ltd.	Jeff Orr – Project Manager Jennifer Stirling – Geologist Thomas Bradshaw – Junior Engineer Ernest Palczewski – Geologist	In No Yes Out
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 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	No Out No Yes No Yes Yes No No Out Yes Yes Yes Yes In No 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: -32/--	12PM: -30/--	6 PM: -30/-39	12 AM:-31/-45
Precipitation (mm)	<b>Rain:</b> None		<b>Snow:</b> None	
Conditions	<b>Day Shift:</b> Sunny with light breeze in the morning; cold with a stiff breeze during the evening.		<b>Night Shift:</b> Cold. Clear sky. Calm wind.	
Daily norms (°C)	24 hour high: -27.3		24 hour low: -32.8	

**HEALTH, SAFETY AND ENVIRONMENT**

- Iozsef Miskolczi and Thomas Bradshaw attended the daily 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 Williams Wireless, Newmont [Michelle Tanquay], JDS [Doug Fielding, Mark Valeriote, Ishan Fechter], Nuna [Doug Haverland, Kyle Kuntz] and SRK [Murray McGregor, Iozsef Miskolczi]

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> <li>• No safety representative</li> <li>• ESR reminded Nuna that rubble must be removed from the Diversion Berm area after construction.</li> </ul>
North Dam	<ul style="list-style-type: none"> <li>• SRK reported additional placement; things have been running smoothly.</li> <li>• Nuna stated they have placed 46 truckloads of FCM in the last 24 hours.</li> <li>• JDS inquired about the circuit that was breaking down at the FCP; Nuna stated they reset it to last year's setting when it was working fine.</li> <li>• Nuna stated their electricians were going to the FCP to repair the northern door.</li> </ul>
Water Management Structures	<ul style="list-style-type: none"> <li>• SRK stated that the Sump #1 excavation is looking good so far with minimal over-break and vertical sides.</li> <li>• Nuna stated there is 15m remaining for excavation along the diversion berm.</li> <li>• Nuna stated they have almost completed the Sump #1 excavation; they will only assign highly experienced operators to perform the work.</li> <li>• Nuna plans to continue the ongoing liner and cruhs work at the diversion berm.</li> </ul>
General	<ul style="list-style-type: none"> <li>• SRK announced that Lowell Wade is coming on Monday the 27<sup>th</sup> for the monthly inspection.</li> </ul>

**SURVEY:**

<b>Required</b>	<ul style="list-style-type: none"> <li>• As-built survey of Transition placed Feb 20, 2012</li> <li>• As-built survey of ROQ placed Feb 21, 2012</li> <li>• As-built survey of Transition placed Feb 23, 2012</li> <li>• As-built survey of ROQ placed Feb 21, 2012</li> </ul>
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<b>Data Received</b>	<ul style="list-style-type: none"> <li>• AB 120220 ND ROQ</li> <li>• AB 120221 ND FC</li> <li>• AB 120221 ND TR</li> <li>• AB 120222 ND FC</li> <li>• AB 120222 ND ROQ</li> <li>• AB 120221 ND TR</li> <li>• QC Cross sections working file North Dam 120222</li> </ul>
<b>Outstanding</b>	•
<b>Upcoming</b>	<ul style="list-style-type: none"> <li>• Survey of FCM after placement (ongoing).</li> <li>• Survey of Doris North Diversion berm (ongoing).</li> </ul>

## NORTH DAM/FROZEN CORE PLANT PAD:

### Multi-Bead Thermistors

- No activity.

### Frozen Core Plant

#### *Dayshift*

- No activity.

#### *Nightshift*

- No FCM placement.
- Workers cleaned up the dust and fallen core material under the mixer and the belts, as well as blew the dust off the equipment using compressed air.
- The south bay door was having issues with the electrical door actuators not working properly.

### Dam Shell

#### *Dayshift*

- Transition was placed along the downstream edge from 0+65 to 1+10.
- Crush was placed where thermistor cables daylight.

#### *Nightshift*

- Transition material was placed from Sta 1+10 to Sta. 1+85 against the core placed on the previous nightshift.
- ROQ was cut from the downstream crest and placed along the Transition Material. Some of the ROQ was regraded to create a gentle slope which allows vehicle access at any point.

### Key Trench/ Central Core

#### *Dayshift*

- Excavator, broom and labourers cleaned down to core at the northern tie-in.

#### *Nightshift*

- No core placement.
- The single bead thermistors were monitored for freeze-back throughout the nightshift. Freeze-back was reached on the south side (placement on dayshift, Feb. 22) around 5 AM. The north side (placement of Feb.22 nightshift) reached freeze-back around 6:30 AM.  
Two core samples were collected from the south side, around Sta. 0+79 and 1+00 respectively. The power generator was leaking fuel and was not used. Power for the drill was drawn from a nearby light plant. The vacuum could not be used to clean up the glycol due to insufficient power supplied by the light plant. The glycol was collected by soaking it up in spill pads and snow and placed into plastic pales for proper disposal.

## 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
			SB23	0+83	CL	SB13	0+73	CL
			SB21	1+60	CL	SB24	1+28	D/S
						SB29	1+68	U/S
						SB22	1+16	D/S

- 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-PSD49-QA-20120223	HB12-CR-CORE-PSD49-QA-20120223	
HB12-CR-CORE-PSD50-QA-20120223	HB12-CR-CORE-PSD50-QA-20120223	

**MOISTURE CONTENT SUMMARY**

Collected	Testing In Progress	Completed
		HB12-FCP-CORE-MC179-20120222
		HB12-FCP-CORE-MC180-20120222
		HB12-FCP-CORE-MC181-20120222
		HB12-FCP-CORE-MC182-20120222
		HB12-ND-CORE-MC183-20120222
		HB12-ND-CORE-MC184-20120222
		HB12-FCP-CORE-MC185-20120222
		HB12-ND-CORE-MC186-20120222
		HB12-ND-CORE-MC187-20120222
		HB12-FCP-CORE-MC188-20120222
		HB12-ND-CORE-MC189-20120222
		HB12-FCP-CORE-MC190-20120222
		HB12-ND-CORE-MC191-20120222
		HB12-FCP-CORE-MC192-20120222
		HB12-ND-CORE-MC193-20120222

**DRILLED CORE**

Collected	Testing In Progress	Completed
HB12-ND-CORE-DC50-20120223		HB12-ND-CORE-DC48-20120222
HB12-ND-CORE-DC51-20120223		HB12-ND-CORE-DC49-20120222

**DORIS NORTH DIVERSION BERM:**

- Cat 325 excavator buried the lower geotextile with 100mm minimum crush.
- Layfield continued placing geotextile with the assistance of Nuna labourers and zoom boom.
- Survey continued to pick up as-builts for liner, crush and key-trench.

**DORIS SUMPS:**

- Cat 308 excavator continued excavations at Sump #1; the excavation is nearly complete.

**SECONDARY ROAD:**

- No activity.

**QUARRY #2:**

- Crusher continued re-crushing  $\frac{3}{4}$  inch into new FCM; one sample was taken by the dayshift crusher operator.
- Crusher ran all nightshift. One sample was collected for PSD analysis.

**GENERAL:**

- Building of the snow road across Doris Lake continues to be built using a snow-cat and water truck.
- The pick-up truck used by SRK is still not functional. Dayshift was forced to take rides with the foreman, while nightshift used a different truck. Vehicles are readily available on night shift, but a general shortage of vehicles is experienced on dayshift.

## PHOTOS:



**Photo 1:** Progress photo of North Dam from photo point 3. ~NE view



**Photo 2:** Removal of debris where the northern core ties in to original ground; this area will no longer be used as access.





**Photo 3:** Excavator placing transition material along the downstream side of the dam.



**Photo 4:** Daily photo of Sump #1 at 10:30, excavation nearly complete.





**Photo 5:** Daily photo of Sump #2; no activity in the past several days.

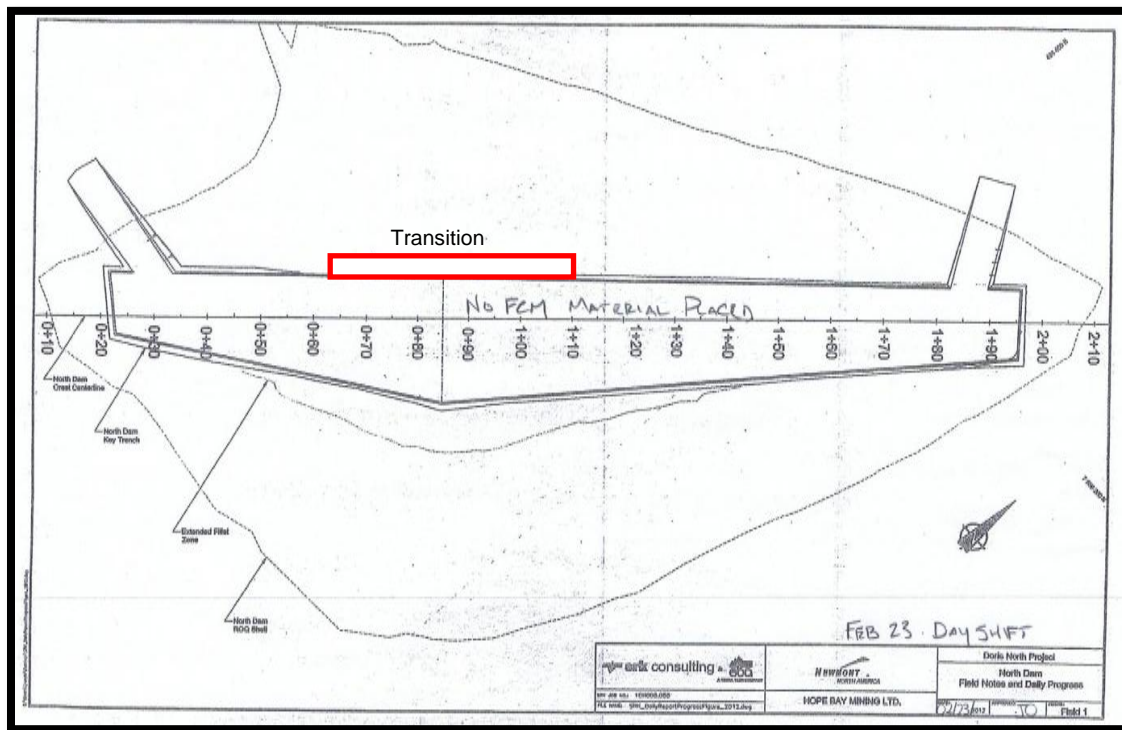


**Photo 6:** Collecting a core sample using the concrete coring machine. Photo looking east from around Sta.0+80.





**Photo 7:** Working in the field geotechnical lab.

**FIGURES:****Figure 1 – North Dam Progress – Dayshift****Figure 2 – North Dam Progress – Nightshift**