

## DAILY REPORT #39 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	Murray McGregor Iozsef Miskolczi	Date:	2012.02.13
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 Out No Yes In
	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 In Yes No Yes Yes No Yes No Yes Yes No No Out 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: -15/-20	12PM: -15	5 PM: -16	12 AM: -16/-20
Precipitation (mm)	<b>Rain:</b> None		<b>Snow:</b> 2-3 cm	
Conditions	<b>Day Shift:</b> Warm, cloudy, mild winds.		<b>Night Shift:</b> Light snow. Calm to no wind.	
Daily norms (°C)	24 hour high: -15.0		24 hour low: -15.8	

**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 [Michelle Tanquay, Sterling Kelly], Nuna [Nick Stoneberger, Kyle Kuntz], JDS [Jerry Graham, Mark Valeriote, Lloyd Jackson, Ishan Fechter], and SRK [Megan Miller]

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> <li>• Safety reported an equipment damage/minor contact incident. Where a piece of equipment backed into a pickup truck that was parked in its work area. The safety message was to be aware of vehicles are parked and don't park in equipment work areas.</li> <li>• ESR asked about the location of the ground temperature cables for the ponds and bridge abutments. SRK to follow-up on the location of the cables.</li> </ul>
North Dam	<ul style="list-style-type: none"> <li>• FCM placement occurred on dayshift yesterday and ROQ and transition placement on nightshift.</li> <li>• SRK stated that a lift of FCM was accidentally placed over 1+75 without the installation of a thermistor. A trench was dug at this location before the material froze to allow for the thermistor to be installed at the correct location.</li> <li>• Nuna plans on crushing and placing FCM today.</li> </ul>
Water Management Structures	<ul style="list-style-type: none"> <li>• SRK noted that the liner slope of the key trench appears too steep for liner placement. It was brought up that discussions were had at a previous meeting which indicated that the slope under the liner could be increased provided that the liner could be installed.</li> <li>• Nuna submitted a new work plan for the sump and plans on starting to drill for Sump 1 tomorrow.</li> <li>• JDS asked about the RFI for the diversion berm, a response is expected to be sent out today.</li> </ul>
General	<ul style="list-style-type: none"> <li>• Nuna plans on moving to Quarry 2 today.</li> </ul>

**SURVEY:**

<b>Required</b>	<ul style="list-style-type: none"> <li>As-built survey of FCM placed Feb 11, 2012</li> <li>As-built survey of Transition placed Feb 11, 2012</li> <li>As-built survey of ROQ placed Feb 11, 2012</li> <li>As-built survey of FCM placed Feb 12, 2012</li> <li>As-built survey of Transition placed Feb 12, 2012</li> <li>As-built survey of ROQ placed Feb 12, 2012</li> </ul>
<b>Data Received</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Outstanding</b>	<ul style="list-style-type: none"> <li></li> </ul>
<b>Upcoming</b>	<ul style="list-style-type: none"> <li>Survey of FCM after placement (on going).</li> <li>Survey of Doris North Diversion berm excavation.</li> </ul>

**NORTH DAM/FROZEN CORE PLANT PAD:****Frozen Core Plant***Dayshift*

- Frozen core plant started at 8:00AM; material was good for placement within 15 minutes.
- The FCP ran smoothly for most of the day.
- At 2:30PM, the feed got stuck which caused the relative water content to rise substantially; one truck load of material needed to be removed after placement.
- Once the feed was restored, placement was continued on all approved frozen areas.

*Nightshift*

- No activity, no FCM was produced.
- No frozen core plant operator was available on nightshift.

**Dam Shell***Dayshift*

- No activity.

*Nightshift*

- Transition and some ROQ material were placed along the downstream side of the core material. This material was placed with the CAT 330 excavator and compacted with the vibratory packer.
  - Transition material was obtained from the stockpile near the crusher.
  - Some of the ROQ stockpiled on the downstream side was placed in a lift approx. 50 cm thick to match the transition material elevation.
  - The thin layer (1 to 2 cm) of powder snow accumulated during the evening was left in place and covered with transition/ROQ material.
- Transition material was stockpiled at the Frozen Core Plant.

**Key Trench/ Central Core***Dayshift*

- Placement was started from 1+25 and continued until 0+55.
- Material looked excellent when first placed; over time some water bled out to form puddles.
- Almost all compaction and saturation tests were above targets.
- The last two truckloads were wet, resulting in proctors as low as 89% in a localized area.
- One single bead thermistor was installed at either end of today's placement.

*Nightshift*

- No FCM placement.
- Survey marked the edge of the next lift of core material on the previously placed core material, along

downstream side.

- Transition material was tied into the edge of the placed core material. The next lift of core material should toe out onto this transition material.
- Labourers continued removing 5/8" material from a small portion of the HDPE liner covering the GCL on the upstream side, using hand shovels and a jack hammer. After disassembly of the hoarding tents, the 330 excavator was used to remove as much of the thawed 5/8 crush as possible. About one truckload of crush was removed. The hoarding was subsequently rebuilt and heat was applied for further thawing.

#### **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
SB5	1+10	Center	SB4	1+40	Center	SB10	1+00	Center
SB12	0+60	Center				SB6	0+58	Center
						SB8	1+15	Center
						SB2	0+55	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-PSD26-20120213	HB12-ND-CORE-PSD25-20120213	HB12-CR-CORE-PSD26-20120213
HB12-CR-CORE-PSD27-20120213		HB12-CR-CORE-PSD27-20120213
HB12-CR-CORE-PSD28-20120213		HB12-CR-CORE-PSD28-20120213
HB12-CR-CORE-PSD29-20120213		HB12-CR-CORE-PSD29-20120213

##### **MOISTURE CONTENT SUMMARY**

Collected	Testing In Progress	Completed
HB12-CR-CORE-PSD26-20120213	HB12-ND-CORE-PSD25-20120213	HB12-CR-CORE-PSD26-20120213
HB12-CR-CORE-PSD27-20120213		HB12-CR-CORE-PSD27-20120213
HB12-CR-CORE-PSD28-20120213		HB12-CR-CORE-PSD28-20120213
HB12-CR-CORE-PSD29-20120213		HB12-CR-CORE-PSD29-20120213

##### **DRILLED CORE**

Collected	Testing In Progress	Completed
		HB12-ND-CORE-DC32-20120212
		HB12-ND-CORE-DC33-20120212
		HB12-ND-CORE-DC34-20120212

#### **DORIS NORTH CAMP:**

- ROQ placement continued using the Cat 345 Excavator.
- Westarc re-drilled an under blasted area and chipped out another.
- Current action items include:
  - Ripping and sloping key-trench to grade
  - Cleaning key-trench

#### **SECONDARY ROAD:**

- No activity.

**QUARRY #2:**

- Crusher operator started the crusher after overseeing the FCP start-up.
- Material was produced from noon until shift end.
- There was an issue taking samples off the belt because of the volumes of material sitting on the screens; if the crusher were stopped, it would require hours of cleaning to start it again.
- Four samples were taken off the end of the belt using a plywood box held up by the loader; the loader carries the box through the stream and back again.
- All soil in the sampling box is loaded into pails and reconstituted in the EBA soils lab for sieve and moisture tests.

**GENERAL:**

- JDS met with SRK to explain why crusher samples could not be taken from the belt.
- JDS reiterated the importance of expedient turnover on crusher sieves results.
- Iozsef Miskolczi arrived to site around 4PM. The safety re-orientation was scheduled for 2 PM on Thursday.



PHOTOS:



**Photo 2:** Progress photo of North Dam from photo point 2. ~NW view.



**Photo 2:** Progress photo of North Dam from photo point 3. ~NE view.



**Photo 3:** Survey working with excavator to ensure placement is at or below liner grade.



**Photo 3:** Cat 330 excavator scratching areas of frozen 5/8 clear to be removed prior to placement.





**Photo 5:** FCM placement. Some water bled out of the material over time.



**Photo 6:** Placement near the south end of the dam. Compaction results were slightly (1%) low in one localized area.



**Photo 10:** Chipping to obtain grade at the Doris North Diversion Berm.



**Photo 13:** ROQ placement at the Doris North Diversion Berm.



**Photo 14:** Sampling at the crusher using a plywood box in the loader bucket.



FIGURES:

Figure 1 – North Dam Progress – February 13<sup>th</sup> Dayshift

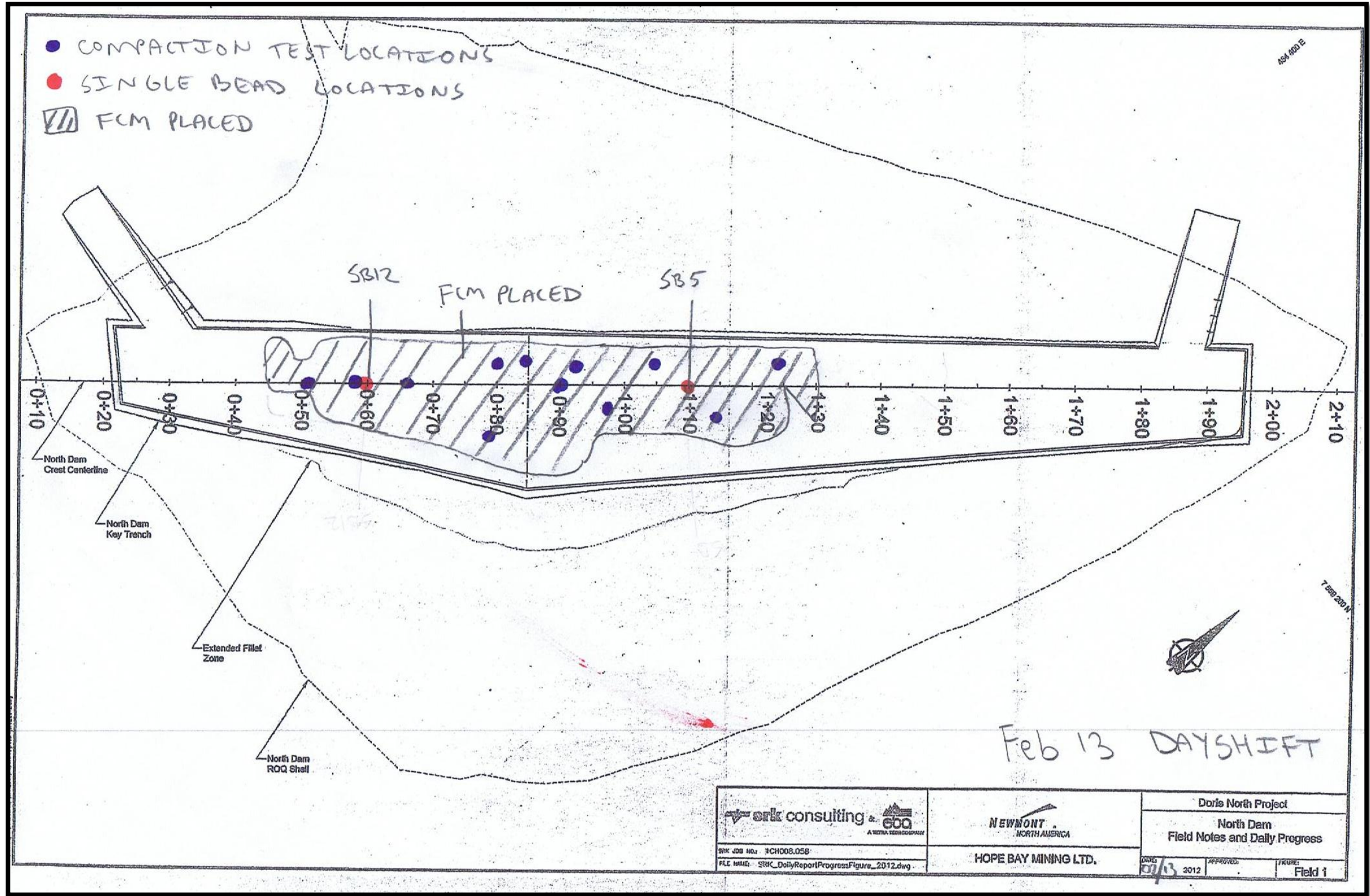




Figure 2 – North Dam Progress – February 13<sup>th</sup> Nightshift

