

DAILY REPORT #89 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	Iozsef Miskolczi Megan Miller	Date:	2012.04.03
Reviewed by:		Project #:	1CH008.058.0320
Role	Company	Personnel – Position	On Site
Client	Hope Bay Mining Limited (HBML)	Angela Holzapfel – ESR Compliance Manager	No
		David Vokey – ESR Coordinator	No
		Dean Wold - Safety	No
		Jill Turk – ESR Coordinator	Yes
		Katsky Venter – ESR Manger	Yes
		Michelle Tanquay – ESR Site Manager	No
		Stirling Kelly – HSLP Advisor	Yes
		JDS	Lloyd Jackson – Mechanical Superintendent
	Doug Fielding – Construction Manager		No
	Ishan Fechter – Construction Coordinator		No
	Jerry Graham – Construction Manager		Yes
	Kevin Whieldon – Project Coordinator		No
	Mark Valeriote – Construction Manager		In
	Engineering Design Consultants	SRK Consulting (Canada) Inc.	Calvin Goldschmidt – Construction Coordinator
Megan Miller – Site Engineer			Yes
Lawrence Borowski – Site Engineer			No
Earthworks Contractor	Nuna Logistics	Iozsef Miskolczi – Site Engineer	Yes
		Benny Vostermans – Foreman (Day Shift)	Yes
		Doug Haverland – Area Superintendent	No
		Gary Sodhi – Field Engineer	Yes
		Georges Cornelissen – Survey Manager	Out
		Jeff Roberts - Surveyor	No
		Jim Cardinal – Foreman (Day Shift)	Yes
		Jordan Gunter – Foreman	No
		Kevin Kozdrowski – Foreman	No
		Kyle Kuntz – Project Engineer	No
		Margaret Caley – Surveyor	No
		Mike MacMaster – Surveyor	Yes
		Mike Price – Field Engineer	Out
		Rick Peter – Foreman (Night Shift)	Yes
Simon Chipper – Civil Supervisor	No		
External Distribution List:	SRK: Maritz Rykaart, 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:-7/-16	12PM: -10/-16	6 PM: -10/-17	12 AM: -12/-12
Precipitation (mm)	Rain: None		Snow: 2 to 3 mm	
Conditions	Day Shift: Sunny with some clouds; warm, no wind.		Night Shift: Overcast in the evening, clearing overnight. Moderate to calm wind.	
Daily norms (°C)	24 hour high: -6.7		24 hour low: -13.0	

HEALTH, SAFETY AND ENVIRONMENT

- Megan Miller attended Nuna's morning toolbox meeting.

COMMENTS, CORRESPONDENCE AND ACTIVITIES

DAILY MEETING WITH NUNA AND HBML TEAM:

- The daily meeting was attended by Nuna [Lucas Evans, Trevor Sorken], ESR [Katsky Venter], Nuna Safety [Stirling Kelly], JDS [Jerry Graham, Calvin Goldschmidt, Mark Valeriotte], SRK [Megan Miller]

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> • No safety incidents. • No new incidents to report • ESR and Nuna discussed an inspection of the KCMD area before they leave site.
North Dam	<ul style="list-style-type: none"> • ROQ was placed at the dam all yesterday. • Nuna plans to continue ROQ placement today. • Dam instrumentation order was discussed. Nuna has ordered everything.
Water Management Structures	<ul style="list-style-type: none"> • The overburden material for Sump 2 will be warmed up today.
General	<ul style="list-style-type: none"> • SRK and JDS set a time to look at the Roberts Bay Tank Farm berm area. • Nuna filled 36 mega-bags with overburden on nightshift, 10 of which are for Sump 2. • The CAT 345 excavator will start work on the Jetty tomorrow. • Today Nuna plans on drilling the holes for thermistor installation at the Doris-Windy Road bridges. • The Jetty thermistor was discussed.

- After the meeting a brief discussion was had with Mark Valeriotte regarding the survey monuments for the dam. SRK agreed with installing centralizers however had some concerns with the stiffeners. JSD decided to proceed with the survey monuments as-per the IFC drawings, with no additions.

SURVEY:

Required	<ul style="list-style-type: none"> • Final as-built surveys of the following Diversion Berm components: <ul style="list-style-type: none"> ○ Overliner crush ○ Liner ○ ROQ berm (underliner) ○ Bentonite ○ Underliner crush ○ Key trench crush
Data Received	<ul style="list-style-type: none"> • None
Outstanding	<ul style="list-style-type: none"> • None
Upcoming	<ul style="list-style-type: none"> • Diversion Berm material as placed • Dam material (ongoing)

- There is currently only one surveyor on site.

NORTH DAM/FROZEN CORE PLANT PAD:

Multi-bead Thermistors

- No multi-bead thermistor readings were collected.
- Metal ID tags were installed on most thermistors, except for those at station 0+60. The remaining tags will be installed tomorrow.

Dam Shell*Dayshift*

- ROQ placement continued with the CAT D8 dozer placing ROQ in a third lift (to the same elevation as the top of transition material) on the upstream side of the dam. The slopes in this area were placed as the front moved forward.
- The CAT 330 excavator sloped the upstream side of the final lift of ROQ material approximately station 1+00 to 1+30.
- Material from the excavator sloping was hauled to the dozer and placed in the fill. Some of the material was within specification but bony. This material was spread over the thicker part of the next lift where the finer ROQ material can become mixed in.
- Snow was cleared from the south end of dam footprint where it had blown in overnight.
- The surveyor marked the area where additional crush material has to be placed over the thermistor pipes where they extend out to the radiators. Additional snow cleaning is required prior to crush placement; however the snow clearing will have to be done carefully as in a few areas the pipes are only covered by a thin layer of crush (6" in one section).

Nightshift

- Placement of ROQ continued on nightshift. The third lift was completed around 3 AM, and the crew was working on placing the final lift for the balance of the nightshift.
- The 4H:1V downstream slope was shaped and finished by the excavator to the crest of the third lift of ROQ between Station 0+35 and Station 1+00.
- A lift of crush was placed over the thermosyphon pipes near the radiators, as laid out by survey. A few rocks were noted by the excavator operator embedded in the old crush, and were manually removed before the new crush was placed. No compaction of the crush was done.
- As of end of the nightshift, placement of ROQ on the dam shell is essentially complete from the north end of the dam to Station 1+00. Also the upstream and downstream slopes are essentially complete for the entire length of the dam, with only the top lift remaining to be placed. Further sloping and finishing, as well as compaction is required to complete the dam shell.
- No settlement indicators have been installed to date.

DORIS NORTH DIVERSION BERM:

- ROQ material was placed in the corner by the culverts under the Primary Road. Once the first lift of ROQ was placed in this area the culverts were extended and the overliner crush was placed above the culverts.
- The culverts were backfilled with crush and the second lift of ROQ material was placed in the area.
- The first lift of ROQ material was completed in the section which has previously been covered with snow. After the first lift of ROQ was complete the CAT 308 excavator continued to clear snow from the footprint of the second lift.
- No compaction was observed on any material.

SUMPS:

- No activity.

QUARRY #2:

- ROQ material was loaded from the quarry.

GENERAL:

- SRK and JDS met at Roberts Bay tank farm to discuss the berm to prevent water from flowing into the south east corner of the tank farm. It does not appear that there will be much work involved with constructing this berm.
- Mega bags continued to be filled with overburden material for use at sump 2 and Boston.

PHOTOS:

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



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



Photo 3: Progress photo of North Dam from photo point 3. Looking north east along dam alignment.



Photo 4: North Dam – View of progress on north dam. Line and stakes mark the final crest which is at grade.



Photo 5: Diversion Berm – Culvert extensions installed at crossing through Primary Road.



Photo 6: Diversion Berm – Culverts after placement of first lift of ROQ and crush material.



Photo 7: Diversion Berm – culverts after backfilling with second lift of ROQ material.



Photo 8: North Dam – excavator clearing snow before additional crush placement at south thermosyphon radiators. Photo looking north-east.



Photo 9: North Dam – completed crush placement at the south thermosyphon radiators. Photo looking west.



Photo 10: North Dam – CAT D8 dozer placing the third lift of ROQ. Note the boulders spread out in the right side of the photo, to prevent creation of large cavities. Photo looking north-east from Sta. 0+40



Photo 11: North Dam – completed third lift of ROQ. Compactor is compacting the ROQ as well as the transition surfaces. Photo taken from Sta.0+10, looking north-east.

FIGURES:

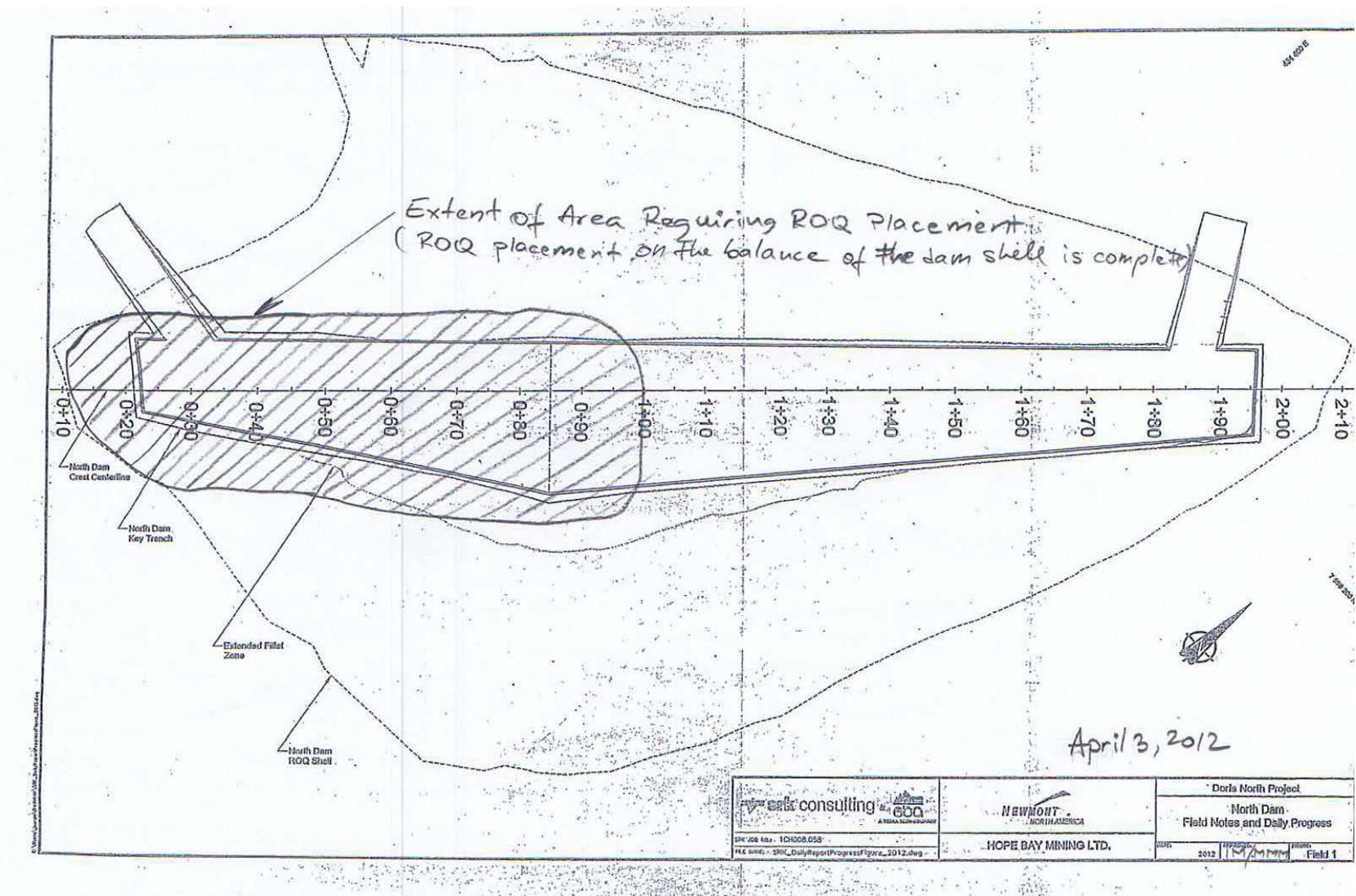


Figure 1: North Dam Progress Figure