

DAILY REPORT #43 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	Murray McGregor Iozsef Miskolczi	Date:	2012.02.17
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 Yes Yes 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	No No No Yes Yes
	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	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 Yes No Yes No Yes Yes No No Yes Yes Yes Yes Yes No 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: -21/-32	12PM: -16/-27	5 PM: -16/-27	12 AM: -19/-31
Precipitation (mm)	Rain: None		Snow: None	
Conditions	Day Shift: Moderate wind. Blowing snow. Clear all day.		Night Shift: Moderate wind. Blowing snow.	
Daily norms (°C)	24 hour high: -15.7		24 hour low: -27.0	

HEALTH, SAFETY AND ENVIRONMENT

- Ernest Palczewski attended the daily toolbox meeting.
- Iozsef Miskolczi and Thomas Bradshaw attended the Nuna 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], and SRK [Murray McGregor]

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> • Safety stated that a kitchen accident required 4 stitches. • ESR stated there was a small leak on the crane; it was cleaned up.
North Dam	<ul style="list-style-type: none"> • SRK stated there are new lab results for the test FCM; more GCL was exposed and some 5/8 was removed near the ends of the dam. • Nuna stated they may have a small placement of FCM later today.
Water Management Structures	<ul style="list-style-type: none"> • Layfield is getting orientation today; Nuna is prepping the berm for liner work. • Nuna stated that the drill will mobilize to one of three areas depending on current access. • Nuna may send the drill to install the Jetty thermistor prior to Sump #1. • Nuna stated they will attempt to give SRK a days' notice before drilling for the thermistor. • Nuna stated they have located the bridge thermistors.

SURVEY:

Required	•
Data Received	<ul style="list-style-type: none"> • QC 120216 ND CROSS-SECTIONS.dwg – up-to-date (Feb. 15) cross sections of work in progress
Outstanding	•
Upcoming	<ul style="list-style-type: none"> • Survey of FCM after placement (on going). • Survey of Doris North Diversion berm excavation. • Survey of exposed GCL surface

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

- The three thermistor strings on the upstream side were downloaded. All are in good working order.

Frozen Core Plant***Dayshift***

- The plant had a smooth start-up around 4:00PM; material was ready for placement within the first 15 minutes.

- Temperature was not strictly monitored or changed despite being hotter than normal for production placement; the reason was that this would be used for a small trial placement focusing on moisture content, rather than freeze back optimization.
- Twelve Cat 730 haul truckloads of product were sent to the dam.

Nightshift

- No activity, no FCM was produced.
- One core was collected from the test area #4 of the Feb. 16 test pours. A small amount (approx. 1.5 liters) of Glycol was spilled during the core sampling, when the vacuum machine suddenly stopped working. All the glycol collected by soaking it up in spill pads and snow. The glycol soaked pads and snow was placed in a plastic pail for proper disposal.

Dam Shell

Dayshift

- No activity.

Nightshift

- Transition material was hauled and stockpiled at the FCP.
- Some snow blown in during the day shift was cleaned out from the upstream side of the key trench along the stockpiled ROQ and hauled to the overburden dump.

Key Trench/ Central Core

Dayshift

- A small downstream area near the center of the dam was used for trial placement.
- A sheen of water was observed after placement and the placed core material started to bleed slightly once compacted; this same surface water was observed during previous proctor tests of the new FCM.
- The Troxler gauge indicated adequate saturation and density based on the latest Proctor dry density (~2160 kg/m³).

Nightshift

- No FCM placement.
- Snow accumulated since the previous night was removed and hauled to the Overburden dump near Doris Camp.
- Removal of the frozen 5/8 crush from above the HDPE liner continued on the south end of the keytrench from about Sta. 0+40 to Sta. 0+30.
- Grades were checked in the area cleared of 5/8 crush at the south-west end of the keytrench. A portion of the cleared area was found to be at grade and only final cleanup of the snow and loose gravel will be required before placement. The extreme end of the key trench, at the foot of the overburden wall, still requires some excavation, about 15 to 20 cm, to reach the grade of the frozen core placed in 2011.
- The upstream toe of the core placement zone from station 0+40 to station 1+10 was marked up with spray paint by survey.
- Snow and loose gravel was cleaned up using the compressed air blower and the skidsteer equipped with the broom, in preparation for core placement on day shift.

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
SB1	0+90	D/S	SB13	1+35	Center			
			SB7	1+72	U/S			
			SB4	1+40	Center			
			SB5	1+10	Center			
			SB12	0+60	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-ND-CORE-PSD36-20120217

MOISTURE CONTENT SUMMARY

Collected	Testing In Progress	Completed
HB12-FCP-CORE-MC135-QA-20120217		HB12-FCP-CORE-MC135-QA-20120217
HB12-FCP-CORE-MC136-QA-20120217		HB12-FCP-CORE-MC136-QA-20120217
HB12-FCP-CORE-MC137-QA-20120217		HB12-FCP-CORE-MC137-QA-20120217
HB12-ND-CORE-MC138-QA-20120217		HB12-ND-CORE-MC138-QA-20120217
HB12-ND-CORE-MC139-QA-20120217		HB12-ND-CORE-MC139-QA-20120217
HB12-ND-CORE-MC140-QA-20120217		HB12-ND-CORE-MC140-QA-20120217
HB12-ND-CORE-MC141-QA-20120217		HB12-ND-CORE-MC141-QA-20120217

DRILLED CORE

Collected	Testing In Progress	Completed
HB12-TEST-CORE-DC40-20120217		HB12-ND-CORE-DC36-20120216 HB12-ND-CORE-DC37-20120216 HB12-ND-CORE-DC38-20120216 HB12-ND-CORE-DC39-20120216 HB12-TEST-CORE-DC40-20120217

DORIS NORTH CAMP:

- Cat 345 Excavator completed some mucking and snow clearing.
- Westarc performed some additional honey-combing and chipping using the drill.
- Cat 330 filled the key-trench to grade with last year's frozen core material; no compaction was observed.

SECONDARY ROAD:

- No activity.

QUARRY #2:

- Crusher underwent additional repairs; no new crusher samples were received.

GENERAL:

- Preventative maintenance was performed on the vacuum cleaner used to clean up the glycol when collecting core samples.
- Part of the Nuna nightshift crew was tasked with snow clearing around the site.
- Snow was cleaned from a portion of Tail Lake to allow the HDPE pipe to be strung out and welded.

PHOTOS:



Photo 1: 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 4: Trial placement near the center of the key-trench.



Photo 5: Drill core quality has improved since new core barrels have arrived on site.



Photo 3: Photo of a haul truck being loaded under the surge bin. The new material requires more moisture to achieve saturation. The angle of repose is flatter than previous 20mm FCM.



Photo 6: Laborers cleaning snow and loose gravel using compressed air.



Photo 7: Skidsteer equipped with broom attachment cleaning loose gravel and snow from frozen core area.

FIGURES:

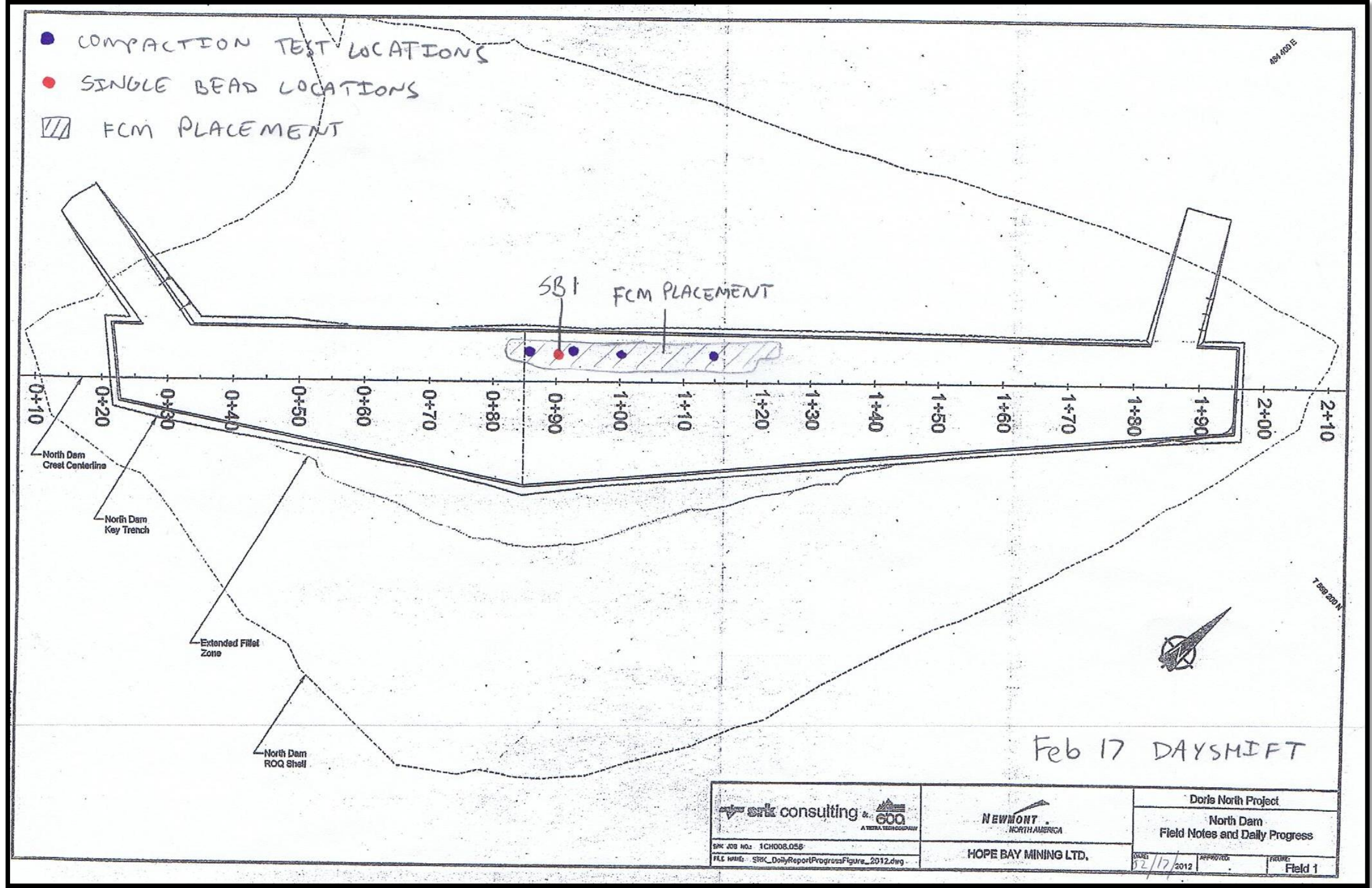


Figure 1 – North Dam Progress – February 17th Dayshift

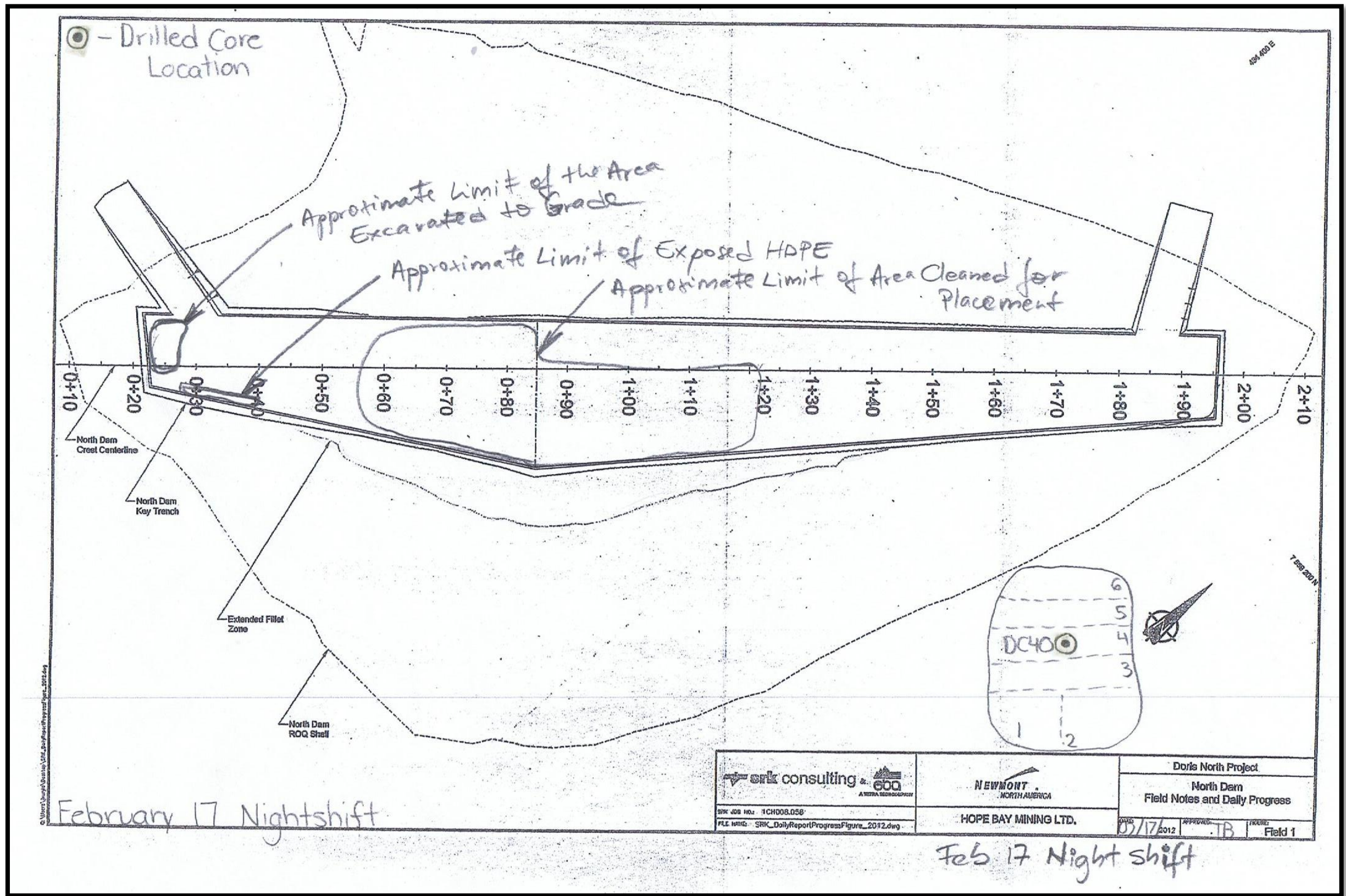


Figure 2 – North Dam Progress – February 17th Nightshift