

DAILY REPORT #25 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	John Kurylo/ Jeff Orr / Megan Miller	Date:	2012.01.30
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 Yes No No Yes No No
	JDS	Lloyd Jackson – Mechanical Superintendent Sven Archimowtiz – Electrical 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 Yes
Engineering Design Consultants	SRK Consulting (Canada) Inc.	John Kurylo – Site Engineer Megan Miller – Site Engineer Lawrence Borowski – Site Engineer Murry McGregor – Site Engineer Iozsef Miskolczi – Site Engineer	Yes Yes No No No
	EBA Engineering Consultants Ltd.	Jeff Orr – Project Manager Jennifer Stirling – Geologist Thomas Bradshaw – Junior Engineer Ernest Palczewki – Geologist	Yes Yes No In
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 Peters – Foreman Ron MacMaster – Surveyor Simon Chipper – Civil Supervisor	Yes No Yes Yes Yes No No In No Out Yes Yes Yes No No No No No Yes
External Distribution List:	SRK: Maritz Rykaart (on site), Lowell Wade, Seema Kang, Silkie Wong EBA: Robert Zschuppe Nuna: Chris Petrovic (on site) 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)	5AM:-31.5/-43.0	12PM: N/A	6 PM: N/A	12 AM: N/A
Precipitation (mm)	Rain: None		Snow: None	
Conditions	Day Shift: Clear, moderate wind.		Night Shift: Windy, cold, some blowing snow.	
Daily norms (°C)	24 hour high: -31.4		24 hour low: -33.6	

Weather station is not working.

HEALTH, SAFETY AND ENVIRONMENT

- Megan Miller attended the nightly Nuna safety meeting.
- Maritz Rykaart attended the site refresher orientation.
- SRK held discussions with ESR about proper practice for storing 5 gallon pails of glycol outside. SRK is utilizing glycol to assist with drilling cores in the key trench and requires that the glycol be left outside to ensure that it is at a low temperature. At this time SRK is storing the glycol in 5 gallon pail with secure lids and then placing the pails on spill mats outside of the FCP lab. ESR indicated that best practice would be to store the glycol in pans/ in one of the small portable containments. Upon inquiry SRK was instructed that the BBE warehouse and Nuna should be further consulted to see if small fuel containment could be made available. Further inquiries into the aforementioned will be completed in the coming days.

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

- The daily meeting was attended by ADCO, Nuna [Doug Haverland, Kyle Kuntz], Newmont Safety [Don Ethelston], ESR [Katsky Venter], JDS [Doug Fielding, Mark Valeriote, Kevin Whieldon, Calvin Goldschmidt, Lloyd Jackson], SRK [John Kurylo].

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> • Safety had no issues to report. • An antifreeze spill was noted from the 988. • ESR reminded everyone to check around vehicles during pre-operation inspection and note any minor spills. • Spill reporting was discussed. • Spill pan or pad should be placed under equipment or vehicles if they are planned to be left in any location for an extended period of time (couple of days). •
North Dam	<ul style="list-style-type: none"> • SRK provided a brief update for construction activities at the North dam that resulted on 2012/ 01/ 29. <ul style="list-style-type: none"> ○ No placement resulted on dayshift. ○ Placement on nightshift resulted from ~0+80 to 0+40. ○ Freezeback had resulted in all areas, excluding the area where material was placed on the 2012/ 01/ 29 nightshift. • Approximately 16 large loads (expected to be greater than 9 m³) were placed at the dam on yesterday's nightshift. • FCM placement is planned to result today.
Water Management Structures	<ul style="list-style-type: none"> • Dozers are planned to rip at the DN Diversion Berm alignment today. • Blast mats are being moved up the DN Diversion berm area in preparation for future blasting (in the areas where Westarc was drilling on an exposed bedrock outcrop).
General	<ul style="list-style-type: none"> • The moving of core boxes was discussed. Safety requested to see a copy of the work plan, which was previously prepared by Nuna.

	<ul style="list-style-type: none"> • ADCO may need another man-lift. They will try to tarp and heat the man-lift that they currently have, in an attempt to get it back working. • JDS to follow-up/ confirm what oil is being used in various machines.
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SURVEY:

Required	•
Data Received	• None
Outstanding	•
Upcoming	• Survey of placed core material (ongoing)

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

- The FCP started up around 9:30 am.
 - A break for lunch was had around 12pm and the plant was restarted around 1pm.
 - FCM temperatures started exiting the plant around 36°C then were slightly reduced, by increasing the belt speeds.
 - FCM temperatures were typically around 30°C (28 to 32°) for dayshifts placement.
 - It has been noted that receiving warm water to the FCP (i.e. water not directly from Doris Lake) has a notable effect on increasing FCM temperatures. Belt speed and incoming water temperatures have been noted to have the greatest impact on changing the FCM temperatures at the chute.
- Some additional work was completed at FCM stockpile, at the FCP Pad, to sort and break down unsaturated frozen lumps.
 - Suitable feed material was stockpiled in preparation for future placement.
 - Large lumps of FCM were hauled to the crusher. These large lumps are planned to be re-crushed.
- Piping is being welded at the SW end of the FCP Pad (along the Tails Lake Access road).

Nightshift

- The plant was started at ~8:30 pm and ran until ~5:30.
 - The plant shut down twice during this time period for ~45 min each time. Once to stop the belt from tracking and once as the plant had ran out of water.
- A loader worked at stockpiling the lump free core material in the FCM stockpile.

Dam Shell

- No significant activity.

Key Trench*Dayshift*

- FCM was placed today on dayshift from ~0+70 to 1+25.
 - Overall, the placement went well. Some variance in moisture contents was observed and required adjustments throughout the day. A few loads of core material were placed drier than optimum. This was corrected by additional compactive effort on the material in order to lower the air voids and increase saturation.
- Additional work on scraping 5/8" clear from ~ 0+90 to 1+70 resulted. Although most of the 5/8" material has been removed, portions of the aforementioned area remained to be cleaned/ swept at the end of dayshift.
- Thermistor string ND-HTS-060-28.8 was repaired today by the Nuna electricians.
- Figure 1 presents today's dayshift construction progress at the North Dam.

Nightshift

- The upstream slope of the key trench from Sta. 1+25 to 1+90 was cleaned with hand brooms.
 - The slopes were cleaned and approved to approximately the 0.3 m offset line from the GCL cover on the crest of the slope. Survey walked the approved line with SRK.
 - This was all the cleaning that was required prior to core material placement in this area.
- FCM was placed from 1+25 to approximately 1+80.
 - From the start of placement the material was on the wetter side; both compaction and saturation requirements were met.
 - After placement and compaction the temperature of the placed FCM was measured to be 27°C.
- Survey marked the required fill until the next set of horizontal thermistors is installed.
- Survey also marked the areas where the key trench has reached the elevation of the original ground, and the core material steps inwards on the downstream side. A large portion of the key trench will be stepping inward on the next lift.
- Figure 2 presents today's nightshift construction progress at the North Dam.
- The table below present the cumulative as-built volume (as provided by Nuna Survey) for FCM placed from January 22nd to January 29th.

SUMMARY OF CORE MATERIAL PLACED (AS-BUILT)

Date	FCM Placed/ Incremental Volume (m ³)	Cumulative FCM Volume Placed (m ³)
January 29 th	184.1	1,721.8
January 28 th	64.0	1,537.7
January 27 th	395.8	1,473.7
January 25 th	261.4	1,078.0
January 24 th	236.8	816.6
January 23 rd	203.0	579.8
January 22 nd	-	376.8

Field Geotechnical Testing, Laboratory and Sampling

- Single bead 43 and 44 were installed and single bead 42 was monitored today. Single bead 43 was installed in the downstream of the dam at 1+15 and bead 44 was installed in the dam around the centerline at 1+70.

SINGLE BEAD THERMISTOR STATUS

Installed Today			Active			Destroyed / Abandoned		
ID	Station	US/DS/Center	ID	Station	US/DS/Center	ID	Station	US/DS/Center
SB43	1+15	D/S	SB42	0+45	Center	SB57	1+10	Center
SB44	1+70	Center				SB41	1+65	DS

- A summary of the material testing progress for 2012/01/29 is presented in the tables below.

PARTICLE SIZE DISTRIBUTION SUMMARY

Collected	Processed	Completed
		HB12-FCP-CORE-PSD11-20120129

MOISTURE CONTENT SUMMARY

Collected	Processed	Completed
HB12-FCP-CORE-MC31-QA-20120130		HB12-FCP-CORE-MC28-QA-20120129
HB12-FCP-CORE-MC32-QA-20120130		HB12-FCP-CORE-MC29-QA-20120129

HB12-FCP-CORE-MC33-QA-20120130		HB12-FCP-CORE-MC30-QA-20120129
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DRILLED CORE		
Collected	Processed	Completed
HB12-ND-CORE-DC12-QA-20120130		HB12-ND-CORE-DC8-QA-20120127 HB12-ND-CORE-DC9-QA-20120127 HB12-ND-CORE-DC10-QA-20120129 HB12-ND-CORE-DC11-QA-20120129

COMPACTION TESTING SUMMARY				
Number of Tests	Material	Tested By	Shift	Notes
8	FCM	JO	Day	All Passed
5	FCM	JS	Night	All Passed

- Compaction and saturation results from the nuclear densometer were acceptable.

DORIS NORTH CAMP:

- Westarc finished drilling at the main bedrock outcrop noted towards the east central area of the DN Diversion Berm. Test drilling by Westarc to get a better feel for the rip-ability of the underlying permafrost, in addition to investigating if additional bedrock will be encountered in the diversion key trench will be completed in the coming days.
- A D8 and D9 dozer start
- The cables/ areas around the Sump #1 location continue to be hoarded and heated with frost fighters.
- The 325 excavator continued excavating material from the Sump #2 area/ footprint. Nuna survey checked grades and assisted with outlining areas where additional excavation was required. Excavated permafrost material is currently being piled on the snow pad created around the sump #2 work site.
- Til Cho has completed the fabrication/ installation of the insulation/ bottom portion of one of the Doris North camp sumps (for sump 1 and 2). The bottom sections of the sumps are currently in the bath plant and the top of the Sumps are at the Roberts Bay Laydown area.

GENERAL:

- Maritz Rykaart and Ernest Palczewski arrived on site today.
- Nuna inquired with SRK about the availability of an additional/ spare thermistor cable on site that could be installed at the Jetty. This cable would be expected to be installed as repairs on the existing cable are expected to be more difficult and costly than installing a new cable. SRK indicated that no ‘spare’ multibead thermistor are currently on site; however there are thermistors that are currently on site that have been ordered for areas/ programs. Further discussions are expected to result in the coming days.
- SRK (John Kurylo) and Newmont (Bill Patterson) had a tour together of the North Dam and DN Diversion Berm areas.

PHOTOS:



Photo 1: View of D9 ripping up frozen tundra/ permafrost along the W side of the DN Diversion Berm alignment.



Photo 2: ~E view of hording and heating around the cables which intersect the Sump #1 footprint.



Photo 3: ~SE close-up view of 325 excavator digging within the Sump #2 footprint.



Photo 4: ~ WSW view of down the key trench. Note the skid steer and 345 excavator cleaning in preparation for placement in this photo.



Photo 5: Progress photo of North Dam from photo point 3. ~ENE view.



Photo 6: Progress photo of North Dam from photo point 1. ~SSE view.



Photo 7: Progress photo of North Dam from photo point 2. ~WNW view.



Photo 8: ~NW stitched panoramic view of FCM placement around station 0+90.



Photo 9: ~ N stitched panoramic view of FCM placement progress on dayshift, taken in the pm. Note the 345 excavator is spreading the dumped material in ~ 0.3m thick lift before it is compacted with the vibratory roller.



Photo 10: ~NEE view of excavator cleaning 5/8" material from the upstream fillet slope.



Photo 11: Paint marks indicating the height to the next horizontal thermistors cables above the current lift.



Photo 13: Survey picking up the edge of the FCM placed on nightshift.



Photo 12: Looking NE along key trench at material placed during the nightshift.



Photo 14: Drilled core HB12-ND-CORE-DC12-QA-20120130 collected from station 0+55 downstream. This core is of the lift placed 2012/01/29 nightshift.

FIGURES:
Figure 1 – North Dam Progress – Jan 30th DAYSHIFT

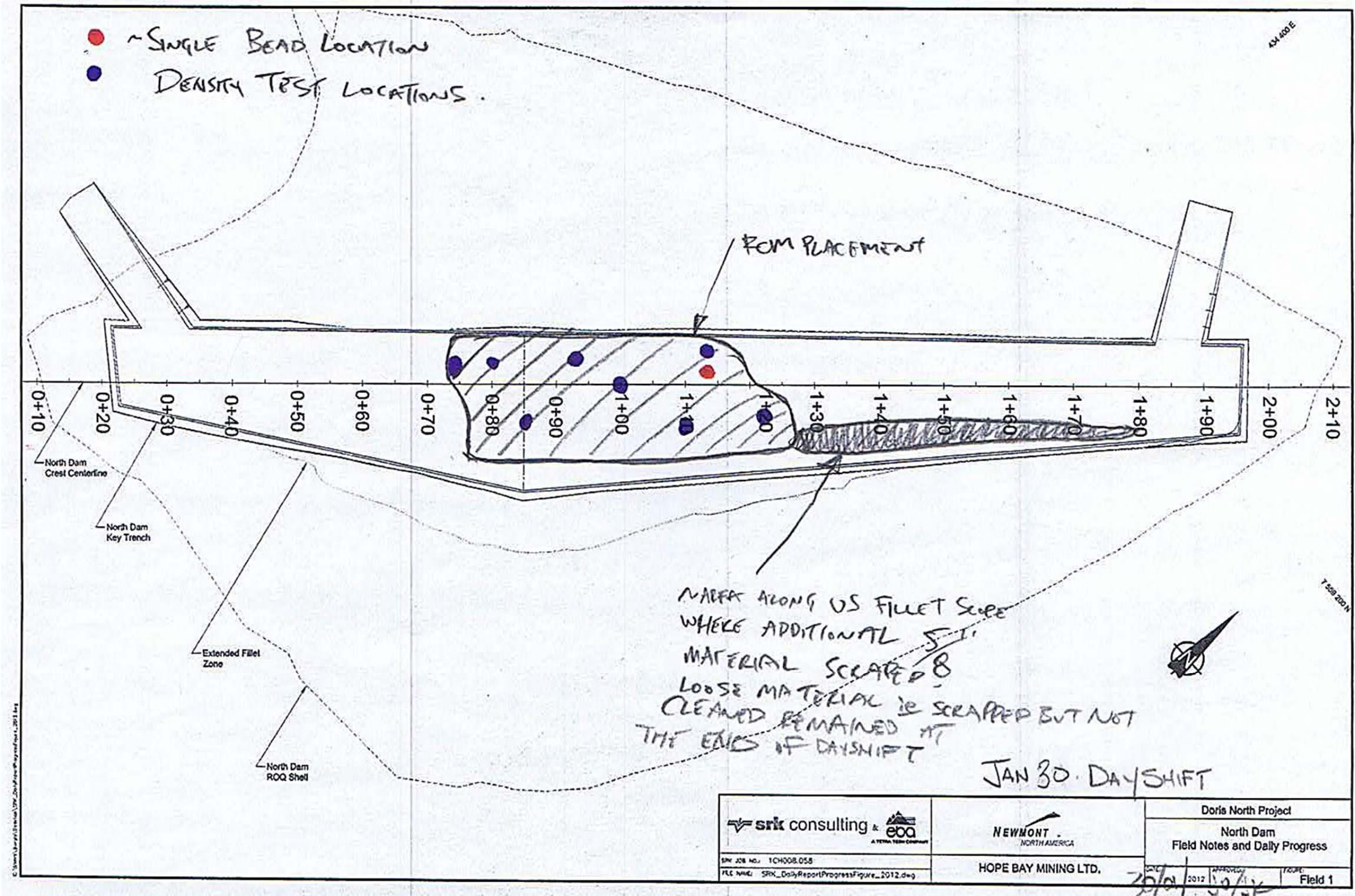


Figure 2 – North Dam Progress – Jan 30th NIGHTSHIFT

