

DAILY REPORT #26 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

Prepared by:	John Kurylo/ Jeff Orr / Megan Miller	Date:	2012.01.31
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 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 Peters – Foreman Ron MacMaster – Surveyor Simon Chipper – Civil Supervisor	Yes No Yes Yes Yes No No Yes No No No Yes Yes Yes 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 (on site) 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/-47	12PM: -28/-43	6 PM: -26/-26	12 AM: -33/-33
Precipitation (mm)	Rain: None		Snow: Trace	
Conditions	Day Shift: Clear to trace snowfall		Night Shift: Light wind, clear.	
Daily norms (°C)	24 hour high: -26		24 hour low: -34	

The Hope Bay weather station had been down since 2012/01/29 the daily weather reported is for Cambridge Bay (<http://www.theweathernetwork.com/index.php?product=obs24h&placecode=canu0005>).

HEALTH, SAFETY AND ENVIRONMENT

- Jeff Orr attended the daily Nuna safety meeting.
- Megan Miller attended the nightly Nuna safety meeting.
- An additional light plant was set up at the North Dam to provide additional lighting when working in the key trench.

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

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

Topic	Status
Health and Safety and Environment	<ul style="list-style-type: none"> • ESR performed an inspection around site of parked vehicles. 15 minor leaks were noted under vehicles on the inspection. • Vehicles should be double checked for leaks at the time of the daily walk arounds and as well should be checked when they are serviced. • ESR/ Nuna to look into ordering additional spill trays. • JDS and ESR are currently further investigating the cost associated with using more environmentally friendly glycol. • Discussions on truck idling resulted. Trucks should only be left idling, when not in use, if there are no plug-ins available.
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/ 30. <ul style="list-style-type: none"> ◦ Placement yesterday resulted from ~ 75 to 1+85 yesterday (over day and night shift combined). • Approximately 55 to 60 loads were placed at the dam on yesterday (day and night shift total). • FCM placement is planned to result today.
Water Management Structures	<ul style="list-style-type: none"> • Some additional ripping and excavating is expected to result along the DN Diversion Berm. • Water is being removed from the cables by Sump #1 (water from heating and hording of snow cover over the cables). • The Sump #2 base is approaching final grade. • Molds have been set up in the batch plant for an upcoming concrete pour (in the base of the sumps, see DN-DMC-046).
General	<ul style="list-style-type: none"> • Nuna provided equipment status updates for JDS. • Williams Wireless requested that they be notified before heat is removed from an area where they are working on cables. JDS recently informed the Williams Wireless crew of a location where heat was being turned off to accommodate other work. • ADCO's genie lift is down. Currently three genie lifts are down on site (expected

	<p>to be from cold weather).</p> <ul style="list-style-type: none"> • Tomorrow the camp will be switched over to permanent power, and run on permanent power from the power house for ~2 days before being switch back.
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SURVEY:

Required	<ul style="list-style-type: none"> • Survey of core material placed Jan 31, 2012
Data Received	<ul style="list-style-type: none"> • Jan 30 compiled surface of placed frozen core material • Individual surveys of frozen core material placed Jan 22- Jan 30.
Outstanding	<ul style="list-style-type: none"> •
Upcoming	<ul style="list-style-type: none"> • Survey of placed core material (ongoing)

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

- The FCP started up around 10 to 10:30 am.
 - The moisture contents were within reasonable control.
 - Temperatures around the FCP started around 36°C (when the drum was preheated) and were run around 30 to 31°C for the majority of dayshift.
 - The FCP ran for around 6 hours in total today.
- Some additional work was completed on the FCM stockpile, at the FCP Pad, to sort and break down unsaturated frozen lumps.
 - A D8 was used to break down and push frozen lumps.
 - Suitable feed material was stockpiled in preparation for future placement.
- Piping continues to be welded at the SW end of the FCP Pad (along the Tails Lake Access road).

Nightshift

- The plant was started at ~9 pm and ran until ~2:30. 126 CAT 930 loader buckets were used to feed the hopper during this time.
 - Plant temperatures were 35°C.
- Once the plant shut down the CAT 345 and 308 excavators and the CAT 980 excavator sorted the frozen lumps from the stockpiled FCM. CAT 730 haul trucks were used to haul the lumps to the crusher.

Dam Shell

- No significant activity.

Key Trench*Dayshift*

- FCM was placed today on dayshift from ~0+65 to 1+17.
 - Overall placement went well. In general material quality was good.
 - ~21 (730 truck) loads were placed on dayshift
 - Additional moisture was note to be travelling downhill as lift placement progressed north. Material in the central key trench area (around 0+85) was noted on the surface to have minor ponding in select areas. Material saturation looked good (based on nuclear densometer testing and visual inspection).
- Figure 1 presents the North Dam nightshift construction progress, for 2012/01/ 31.

Nightshift

- The down and upstream slope of the key trench from 0+70 to 0+30 was swept with the skid steer broom at the beginning of the shift.
- FCM was placed from ~ 0+70 to 0+30
 - The placement went well.
 - The temperature of the first truck load was 35°C after placement but before compaction.

- Where the nightshift lift tied into the dayshift lift the compactor drove slightly onto dayshift lift and disturbed the frozen crust. The frozen crust as pushed forward and formed a peak, with an air void in the center. This was removed by hand.
 - Material tying into the upstream slope came very close to the HDPE liner protecting the GCL in a few spots.
- All multi-bead thermistor readings were collected, with the exception of ND-VTS-060-DS which is buried in snow. All multi-beads were found to be in working order with the exception of one bead on ND-HTS-060-28.8 (fourth bead from the bottom) which was not working.
 - A reading for ND-HTS-175-32.5 was erroneously recorded in the data logger under ND-HTS-040-31.5. When this was noticed another reading was recorded under the correct cable name in the data logger.
 - Thermistor readings were downloaded from the data logger and sent to the SRK office.
- The multi-bead thermistor to be installed in the next lift at station 1+75 was checked and all beads were working.
 - This thermistor was programed into the data logger and is Location 19.
 - A strip of black electrical tape was added to the cable near the connector as a secondary means of identification. The tape system for cables located with the dam core is:
 - Red Tape – Top of liner horizontal cables
 - Black Tape – Upper core horizontal cables
 - White Tape– Vertical thermistor cables
- The lift placed nightshift 2012/01/30 was monitored throughout the night. This lift did not achieve freezeback by the end of nightshift.
- Figure 2 presents the North Dam nightshift construction progress, for 2012/01/ 31.
- The table below present the cumulative as-built volume (as provided by Nuna Survey) for FCM placed from January 25th to January 30th.

SUMMARY OF CORE MATERIAL PLACED (AS-BUILT)

Date	FCM Placed/ Incremental Volume (m ³)	Cumulative FCM Volume Placed (m ³)
January 30 th	518.8	2,240.6
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

Field Geotechnical Testing, Laboratory and Sampling

- Single bead 42, 43 and 44 were monitored today. Single bead 43 was monitored after a second lift was placed.
 - Single bead 60 was installed around station 0+75 centerline.
 - Single bead 45 was installed at station 0+45 upstream.

SINGLE BEAD THERMISTOR STATUS

Installed Today			Active			Destroyed / Abandoned		
ID	Station	US/DS/Center	ID	Station	US/DS/Center	ID	Station	US/DS/Center
SB60	0+75	CL	SB43	1+15	D/S			
SB45	0+45	U/S	SB44	1+70	Centre			

- 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-PSD13-20120131		HB12-FCP-CORE-PSD11-20120129

MOISTURE CONTENT SUMMARY

Collected	Processed	Completed
HB12-FCP-CORE-MC39-QA-20120131		HB12-FCP-CORE-MC31-QA-20120130
HB12-FCP-CORE-MC40-QA-20120131		HB12-FCP-CORE-MC32-QA-20120130
HB12-FCP-CORE-MC41-QA-20120131		HB12-FCP-CORE-MC33-QA-20120130
HB12-FCP-CORE-MC42-QA-20120131		HB12-FCP-CORE-MC34-QA-20120130
HB12-FCP-CORE-MC43-QA-20120131		HB12-FCP-CORE-MC35-QA-20120130
		HB12-FCP-CORE-MC36-QA-20120130
		HB12-FCP-CORE-MC37-QA-20120130
		HB12-FCP-CORE-MC38-QA-20120130

DRILLED CORE

Collected	Processed	Completed
HB12-ND-CORE-DC13-QA-20120131	HB12-ND-CORE-DC12-QA-20120130	

COMPACTION TESTING SUMMARY

Number of Tests	Material	Tested By	Shift	Notes
7	FCM	JO	Day	All Passed
4	FCM	JS	Night	All Passed

- Compaction and saturation results from the nuclear densometer were acceptable.
- A standard proctor test was performed on the core material to confirm the proctor value.

DORIS NORTH CAMP:

- Westarc has finished drilling at the main bedrock outcrop noted towards the east central area of the DN Diversion Berm. Additional drilling was started along the DN Diversion berm alignment.
- SRK inspected the sump fabrication/ construction that have been completed. The outside diameters of the culverts were measured to be ~ 3.11m (inside dimension thus confirmed to match dimensions provided for IFCs). Styrofoam insulation looked sound. Currently the sumps (~ 2.5m total height) are being stored in two sections. The top sections are at Roberts Bay while the bottom sections are in the batch plant.
- 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. This area is nearing the required depth and dimensions.
- SRK, JDS and Nuna held discussions about water management projects currently in progress. Highlights included:
 - It is planned that the DN Diversion berm will be drilled and blasted along the entire alignment, due to difficult ripping conditions encountered. SRK has no issues with this approach as long as the minimum design requirements are met.
 - At the base of the DN Diversion berm, and under the HDPE liner, a compacted levelling layer of core/ fine crush material will be used as a levelling course, if/ as required in the key trench. Bentonite is required under/ around the base of the liner, as per the IFC's for all areas.
 - The location for Sump #2 is expected to be moved slightly (in the order of 0.3m) to better fit the current excavation. This slight move would be completed to ensure that the excavation extents are not increased beyond current field limits (i.e. the excavation is desired to be as close to the diameter of the sump culverts as possible).
 - Concrete is planned to be poured in the base of the sumps in the batch plant (i.e. pre poured rather than poured in place). Nuna plans to reinforce the base of the sumps to be able to handle the load of the concrete when lifted.
 - The top portion of the sumps will be required to be disassembled in order to properly bolt

together the top and bottom sump segments.

- The sumps are planned to be fully constructed and then lifted into place.

GENERAL:

- A town hall meeting was held at 8:30 am today. Newmont outlined that Hope Bay will be entering a 'care and maintenance' phase for the remainder of the year. Construction of the North Dam and water management structures are planned to be completed this year.

PHOTOS:



Photo 1: ~W view down key trench towards the start of dayshift FCM placement.



Photo 2 (top middle): ~ E view of D9 working on breaking up frozen lumps at the FCM stockpile on the FCP Pad



Photo 3 (center right): Drilled Core 13 (HB12-ND-CORE-DC13-QA-20120131), this was taken from ~ 1+15 upstream.



Photo 4: ~NNE view of the 345 excavator spreading FCM around station 0+90.



Photo 5: View of 325 excavator boom (with finishing bucket) working on the Sump #2 excavation.

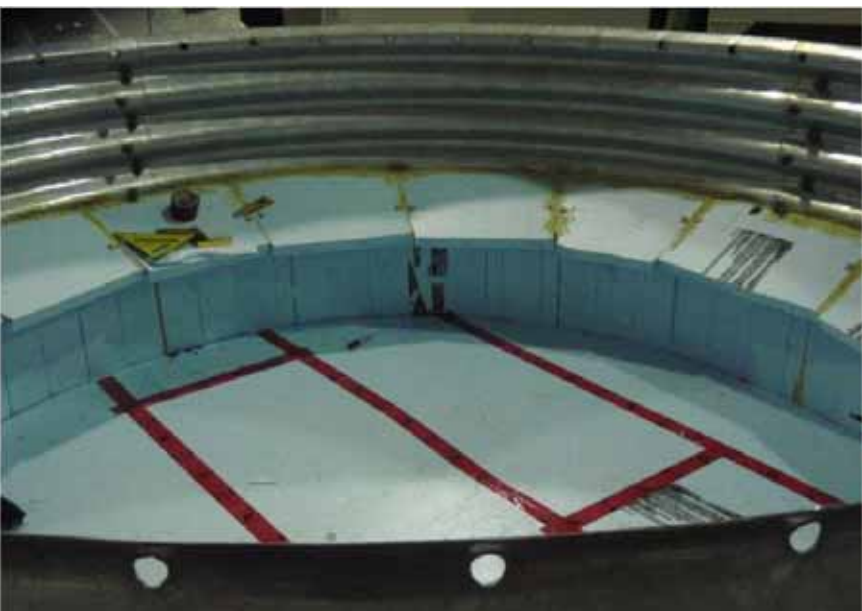


Photo 6: Close up view of insulation installed in the base of a Doris North Camp sump. Note that additional pieces of insulation have been placed on the top portions, as requested, to limit the potential for seepage going behind or in-between layers of insulation.



Photo 7: Progress photo of North Dam from photo point 1. ~SSE view.



Photo 8: Progress photo of North Dam from photo point 2. ~WNW view.



Photo 9: Progress photo of North Dam from photo point 3. ~ENE view.



Photo 10: ~ ESE stitched panoramic view of FCM placement around station 0+85 to 0+90.



Photo 11: ~SWW stitched panoramic view of the North Dam (left of the photo) and the Doris Lake ice airstrip (center of the photo).



Photo 12 (above): Tape as secondary marker on ND-HTS-175-33.5 which is soon to be installed in the key trench.

Photo 13 (right): Checking that the thermistor string ND-HTS-175-33 works.



Photo 14: Compactor running on material placed during the night shift.



Photo 15: Excavator placing FCM along the upstream edge of the key trench near station 0+60.



Photo 16: FCM placed on the upstream slope very close to possibly on the HDPE liner which is protecting the GCL. The HDPE will have to be removed and the GCL in the coming days.

FIGURES:
Figure 1 – North Dam Progress – Jan 31st DAYSHIFT

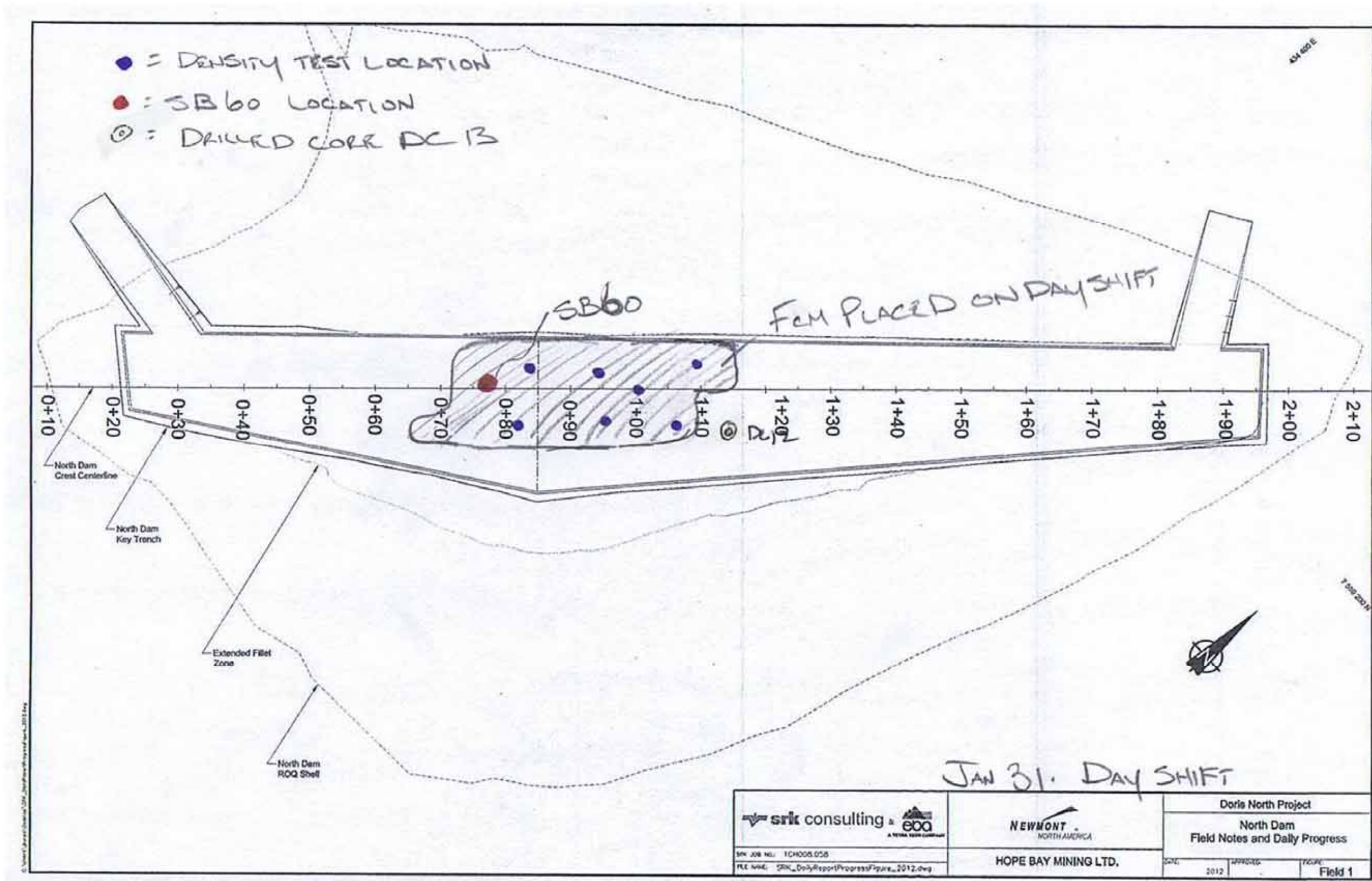


Figure 2 – North Dam Progress – Jan 31st NIGHTSHIFT

