

DAILY REPORT #38 – DORIS NORTH INFRASTRUCTURE/ NORTH DAM

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| Prepared by: | Murray McGregor Megan Miller | Date: | 2012.02.12 |
| 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 Yes No Yes No |
| | 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 No Yes No Yes Yes No Yes No Yes Yes No No Yes 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 | | |
| This Construction Daily Report is produced as an internal communication document between SRK site and head office staff. Any distribution of this report outside of SRK is done as a courtesy, and the information contained in this report are for information only to those external parties. | | | |

WEATHER (ROBERTS BAY)

<http://www.wunderground.com/weatherstation/WXDailyHistory.asp?ID=INUNAVUT3>

| | | | | |
|-----------------------------|---|-----------------|---|--------------|
| Temperature/Wind Chill (°C) | 6AM: N/A | 12PM: -16.9/-23 | 5 PM: -16.2 | 12 AM: -15.2 |
| Precipitation (mm) | Rain: None | | Snow: Trace | |
| Conditions | Day Shift: Warm, cloudy, mild winds, calming in the afternoon. | | Night Shift: Cloudy, calm, attempting to snow but nothing significant. | |
| Daily norms (°C) | 24 hour high: --14.7 | | 24 hour low: -18.8 | |

HEALTH, SAFETY AND ENVIRONMENT

- Megan Miller and Thomas Bradshaw attended the weekly Nuna safety 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], JDS [Jerry Graham, Mark Valeriote, Lloyd Jackson, Ishan Fechter], and SRK [Murray McGregor]

| Topic | Status |
|-----------------------------------|--|
| Health and Safety and Environment | <ul style="list-style-type: none"> • No new safety incidents. • Safety topics involve staying focused while work is coming to a close. |
| North Dam | <ul style="list-style-type: none"> • SRK stated that FCM placement looks good. • SRK reports additional HDPE exposed over the GCL; so far the GCL has not frozen to the HDPE. • JDS inquired about freeze back; SRK reported temperatures of 0°C at 4:00AM. • Nuna stated there will be enough room for roughly 4 hours of placement at the dam. |
| Water Management Structures | <ul style="list-style-type: none"> • SRK will meet with Nuna forman this morning to check ROQ placement and snow clearing. • SRK reminds Nuna about proper compaction between lifts. • Nuna confirms they are splitting some areas into multiple lifts and that they plan to follow technical specifications for placement and compaction. • Nuna expects blasting to last for another day on the berm. • Nuna inquired about thermistor cables for the Jetty, Pollution Control Pond and the Sediment Control Pond; SRK will begin to prepare for these upcoming cable installs. |
| General | <ul style="list-style-type: none"> • Nuna plans to start FCM test batches at the crusher. |

SURVEY:

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

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

- Readings were taken for all multi-bead thermistors with the exception of ND-VTS-085-DS and ND-HTS-175-32.5.
- A reading was attempted at ND-HTS-175-32.5, however two beads showed no reading and the beads that worked showed readings lower than expected (-30°C vs. -20°C). The plastic around the pins on this connector is broken off; therefore it is likely that the pins were improperly aligned in the readout device.
- Damage was noticed on the connector to ND-HTS-085-25.3. The plastic around the pins is cracked and looks like it may break off soon. See photo below.
- One bead of ND-HTS-060-28.8 is not working.
- Thermistor cable ND-HTS-130-31.0 was installed and covered with 250 mm-300 mm of FCM. Only static rolling was performed to compact the material covering the thermistor cable. The last two beads of this thermistor string remain uncovered.

Frozen Core Plant*Dayshift*

- Frozen core plant started at 9:00AM; material was good for placement within 15 minutes.
- The FCP ran smoothly; the plant shut down at 1:00PM when there was nowhere left to continue placement.

Nightshift

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

Dam Shell*Dayshift*

- Cat 330 excavator removed some ROQ over the 5/8 clear on the upstream side.
- The excavator removed minor amounts of snow and ROQ at the southwest end of the dam.

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.
 - ROQ material was obtained from stockpiled ROQ material on the upstream side of the dam.
 - Transition material was obtained from the stockpile near the crusher.
 - Transition material placed adjacent to the fresh core material was not packed within a foot of the core material. Once the core material freezes this edge will require packing.
 - The edge of the transition material along the core placed February 11, 2012 was packed once the core material had frozen back.
- The CAT 330 excavator cleared snow from the south end of the trench.

Key Trench/ Central Core*Dayshift*

- SRK approved a clean surface for immediate placement of FCM.
- Material looked good throughout the day; no changes were made to FCP settings once placement was started.
- All material passed both density and saturation requirements with the exception of two tests at 84% saturation and 84.5% saturation. These were deemed acceptable by the onsite engineer.
- One single bead was installed near the beginning of today's placement

Nightshift

- No FCM placement.
- Prior to FCM placement on dayshift the FCM at station 1+75 was on grade for the next horizontal thermistor string. This forgotten on dayshift, and a lift was placed over the area. While the material was still warm a trench was hand shoveled in the placed material to the appropriate grade.
- Survey marked the grade to the next thermistor string at station 0+40. One or two more lifts are required at this station prior to thermistor installation. This area is currently 0.15 to 0.33 m below the thermistor elevation.
- Survey marked the edge of the next lift of core material on the previously placed core material, along downstream side. The core material in this area is slightly underbuilt. This was mentioned to the nightshift foreman.
 - 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.
- The lift of material placed dayshift February 11, 2012 froze back midway through the shift. Three drilled core samples of this material were collected.
 - Two of the cores were collected within 0.5-2 m of locations where compaction testing during placement occurred.
 - All cores were of good quality.
- Labourers used shovels and a small jackhammer to remove 5/8" material from the HDPE liner covering the GCL on the upstream side.
- The hoarding tents heating the frozen 5/8" material on the upstream side were moved, to cover ~1+85 to 1+65.
- The core material placed February 11, 2012 nightshift (~1+20 to 0+55) was cleaned in anticipation of placing another lift in that area on the day shift. The CAT 330 excavator scrapped ice and the skid steer with broom attachment swept loose debris.
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Field Geotechnical Testing, Laboratory and Sampling**SINGLE BEAD THERMISTOR STATUS**

| Installed Today | | | Active | | | Destroyed / Abandoned | | |
|-----------------|---------|------------------|--------|---------|------------------|-----------------------|---------|------------------|
| ID | Station | U/S, D/S, Center | ID | Station | U/S, D/S, Center | ID | Station | U/S, D/S, Center |
| SB4 | 1+40 | Center | SB4 | 1+40 | Center | SB4 | 1+40 | 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-FCM-CORE-PSD24-20120212 | | HB12-FCM-CORE-PSD23-20120211 HB12-FCM-CORE-PSD24-20120212 |

MOISTURE CONTENT SUMMARY

| Collected | Testing In Progress | Completed |
|--|---------------------|--|
| HB12-FCP-CORE-MC91-QA-20120212 HB12-FCP-CORE-MC92-QA-20120212 | | HB12-ND-CORE-MC88-QA-20120211 HB12-ND-CORE-MC89-QA-20120211 |

| | | |
|--|--|---|
| HB12-FCP-CORE-MC93-QA-20120212 HB12-FCP-CORE-MC94-QA-20120212 | | HB12-ND-CORE-MC90-QA-20120211 HB12-FCP-CORE-MC91-QA-20120212 HB12-FCP-CORE-MC92-QA-20120212 HB12-FCP-CORE-MC93-QA-20120212 HB12-FCP-CORE-MC94-QA-20120212 |
| DRILLED CORE | | |
| Collected | Testing In Progress | Completed |
| HB12-ND-CORE-DC32-20120212 HB12-ND-CORE-DC33-20120212 HB12-ND-CORE-DC34-20120212 | HB12-ND-CORE-DC32-20120212 HB12-ND-CORE-DC33-20120212 HB12-ND-CORE-DC34-20120212 | |
| DORIS NORTH CAMP: <ul style="list-style-type: none"> SRK met with Nuna's site engineer and again with Nuna's foreman to reiterate the importance of preserving vegetation while clearing snow for ROQ placement. Small blasts occurred throughout the day at the Doris North Diversion Berm. Cat 345 excavator continued mucking out the blast and moving blast mats. ROQ placement continued up to the bedrock outcrop. Multiple lifts were observed. Nuna had one of the vibratory packers present to compact areas with multiple lifts. Some areas of the key-trench quite steep, beyond appropriate angles to install liner systems. These areas will need to be sloped/ripped to create a proper working surface. | | |
| SECONDARY ROAD: <ul style="list-style-type: none"> No activity. | | |
| QUARRY #2: <ul style="list-style-type: none"> Additional work was performed to switch the crusher screens. Repairs lasted throughout the afternoon; no material was crushed today. | | |
| GENERAL: <ul style="list-style-type: none"> SRK and JDS communicated a strategy to optimize turnover of sieve testing when the crusher begins to produce additional FCM. This strategy involves taking a sieve an hour for the first four hours of crushing. | | |

PHOTOS:



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



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



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



Photo 4: FCM placement over top thermistor cable DN-HTS-130-31.0; only static compaction was used directly above the cable.



Photo 5: View facing NE of FCM placement, roughly 1+25 to 1+85.



Photo 6: Small additional patch of FCM placement at the southwest end of the dam.



Photo 7: ROQ placement at the Doris North Diversion Berm. Note the packer (in the background) has been mobilized to compact ROQ between lifts.



Photo 8: View looking west along the Doris North Diversion Berm. Some vegetation has been stripped in this area while snow clearing.



Photo 9: Recent snow clearing near the Doris North Diversion Berm key-trench excavation. Much better preservation of vegetation was observed after recent discussions with Nuna foreman.



Photo 10: Doris North Diversion Berm. In some areas, the key-trench requires significant cutting to achieve a slope acceptable for liner placement. Photo looking west towards Quarry 2.



Photo 12: Cracked plastic on connector of thermistor cable ND-HTS-085-25.3



Photo 13: Success full coring expedition on nightshift!



Photo 14: Trench cut in FCM at 1+75 to allow for installation of the next horizontal thermistor at the correct elevation.

FIGURES:

Figure 1 – North Dam Progress – February 12th Dayshift

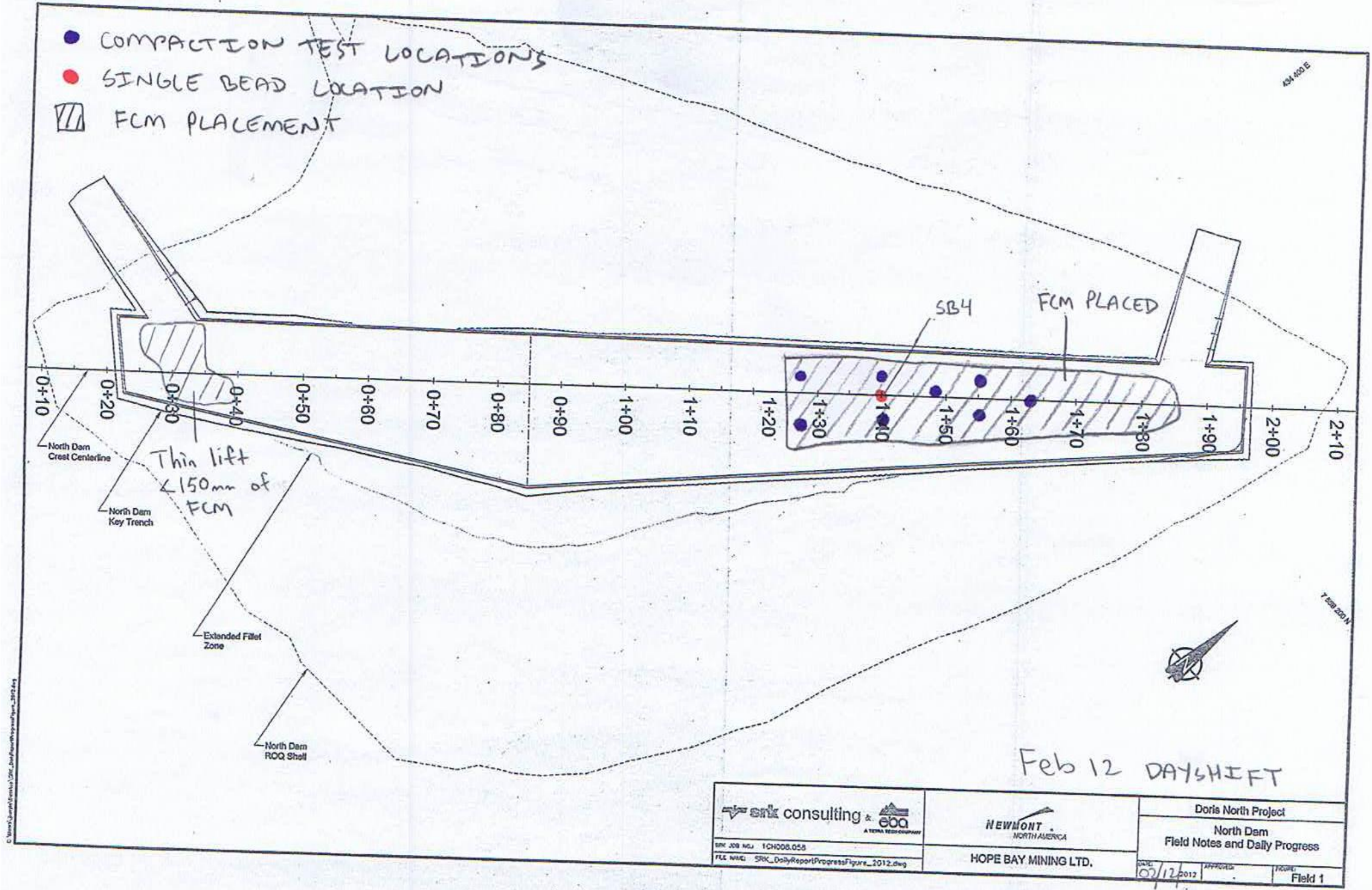


Figure 2 – North Dam Progress – February 12th Nightshift

