

Spigot Location

Major Contour (5m)

Minor Contour (1m)

Approximate Tailings Line

Current Deposition Proposed Dam / Dike

NOTES

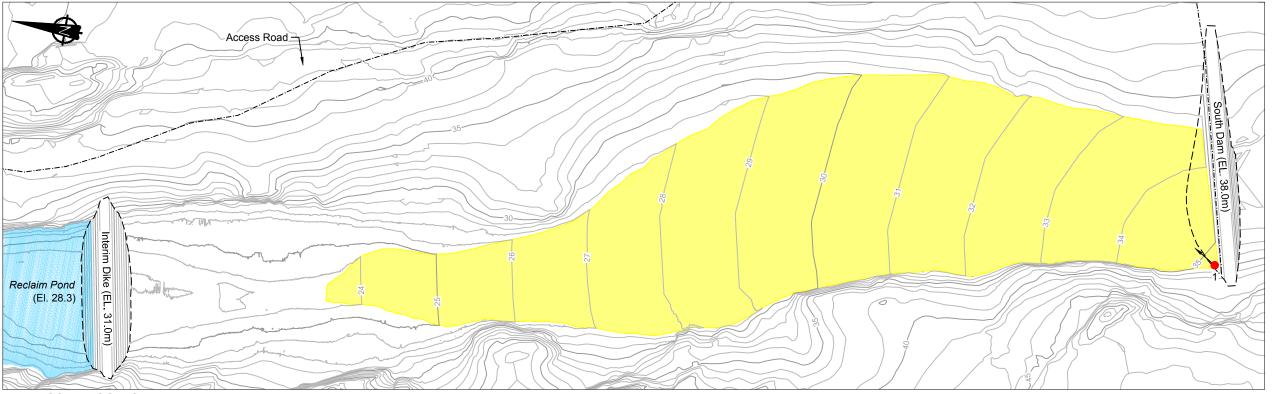
- 1. Deposition durations are approximate and were based on an average production rate of 1,000tpd for years 1 and 2 and 2,000tpd for years 3 and 4.
- 2. Assumed an average deposited tailings beach slope of 1.0%.
- A deposited tailings dry density of 1.29 t/m³ was used (based on laboratory
- 4. All tailings volumes presented include ice entrainment, which was assumed at 20% of production.
- Dam and dike elevations shown were assumed constant for throughout deposition.
- Total storage requirement is 2.32Mm³ (tailings 1.93Mm³ + ice entrainment 0.39Mm³).

TAILINGS DEPOSITION - YEAR 1

Spigot Elev.: No.1: 33.5m Deposited Tailings: 0.34Mm³

Duration: 1 Year

Production Rate: 773.4m³/day (1,000tpd)



TAILINGS DEPOSITION - YEAR 2

Spigot Elev.: No.1: 35.25m Deposited Tailings (Cumulative): 0.68Mm³

Duration: 1 Year

Production Rate: 773.4m³/day (1,000tpd) Deposited Tailings Surface Area (cumulative): 0.23km²

Deposited Tailings Surface Area (cumulative): 0.17km²



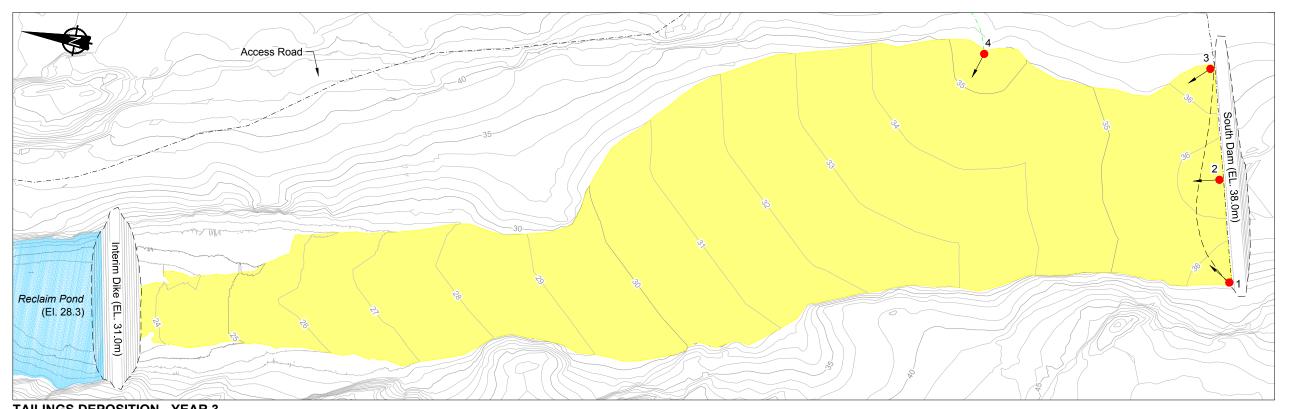
DORIS NORTH TIA OMS MANUAL

TAILINGS DEPOSITION PLAN (YEARS 1 & 2)

May 2016 EK/SA

SRK JOB NO.: 1CT022.002 FILE NAME: 1CT022.002 - SC4 -staged.dwg

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TAILINGS DEPOSITION - YEAR 3

Spigot Elev.: No.'s 1 to 3: 36.5m No. 4: 35.5m Deposited Tailings (Cumulative): 1.35Mm³

Production rate: 1,546.8m³/day (2,000tpd) Deposited Tailings Surface Area (cumulative): 0.34km²

Duration: 1 Year

Access Road 印 38.0m) Reclaim Pond (El. 28.3)

LEGEND

NOTES

Spigot Location

Active Deposition Previous Deposition Proposed Dam / Dike

Deposition durations are approximate and were based on an average production rate of 1,000tpd for years 1 and 2 and 2,000tpd for years 3 and 4. 2. Assumed an average deposited tailings

1.29 t/m³ was used (based on laboratory

entrainment, which was assumed at 20%

4. All tailings volumes presented include ice

Total storage requirement is 2.32Mm³ (tailings 1.93Mm³ + ice entrainment

5. Dam and dike elevations shown were assumed constant for throughout

beach slope of 1.0%. 3. A deposited tailings dry density of

of production.

deposition.

0.39Mm³).

Major Contour (5m) Minor Contour (1m) Approximate Tailings Line

TAILINGS DEPOSITION - YEAR 4

Spigot Elev.: No. 4: 36.5m No. 5: 36.25m

Production Rate: 1,546.8m³/day (2,000tpd) Deposited Tailings Surface Area (cumulative): 0.36km²

Deposited Tailings (Cumulative): 2.03Mm³ Previous Tailings Surface Area: 0.06km²

Duration: 1 Year





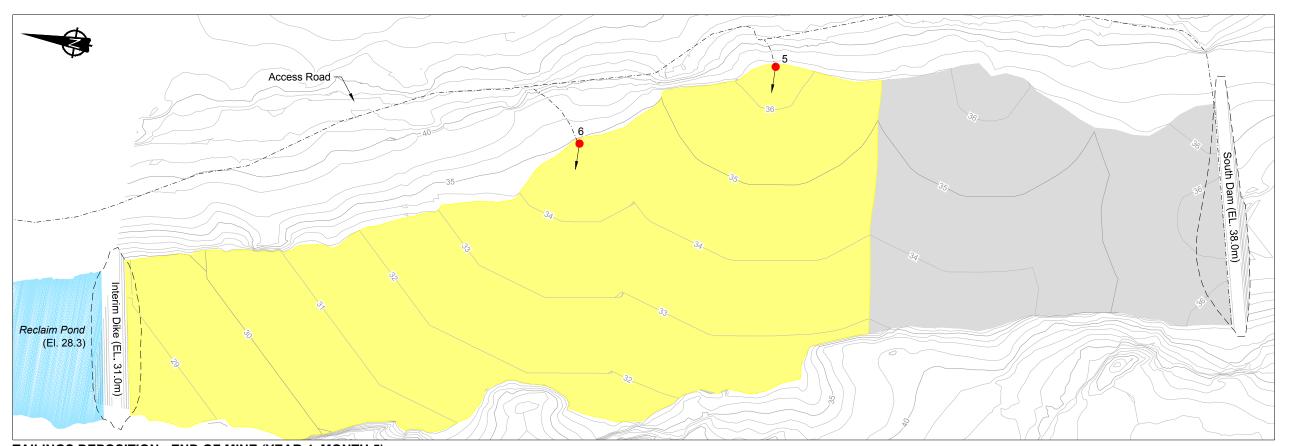
TAILINGS DEPOSITION PLAI
(YFARS 3 & 4)

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Spigot Location Major Contour (5m) Minor Contour (1m) Approximate Tailings Line

Active Deposition

Previous Deposition Proposed Dam / Dike

NOTES

- 1. Deposition durations are approximate and were based on an average production rate of 1,000tpd for years 1 and 2 and 2,000tpd for years 3 and 4.
- 2. Assumed an average deposited tailings beach slope of 1.0%.
- 3. A deposited tailings dry density of 1.29 t/m³ was used (based on laboratory
- 4. All tailings volumes presented include ice entrainment, which was assumed at 20% of production.
- 5. Dam and dike elevations shown were assumed constant for throughout deposition.
- Total storage requirement is 2.32Mm³ (tailings 1.93Mm³ + ice entrainment 0.39Mm³).

TAILINGS DEPOSITION - END OF MINE (YEAR 4, MONTH 5)

Spigot Elev.: No. 5: 36.5m No. 6: 35.0m Duration: 5 Months

Production Rate: 1,546.8m³/day (2,000tpd) Deposited Tailings Surface Area (cumulative): 0.30km² Deposited Tailings (Cumulative): 2.32Mm³ Previous Tailings Surface Area (cumulative): 0.14km²



SRK JOB NO.: 1CT022.002

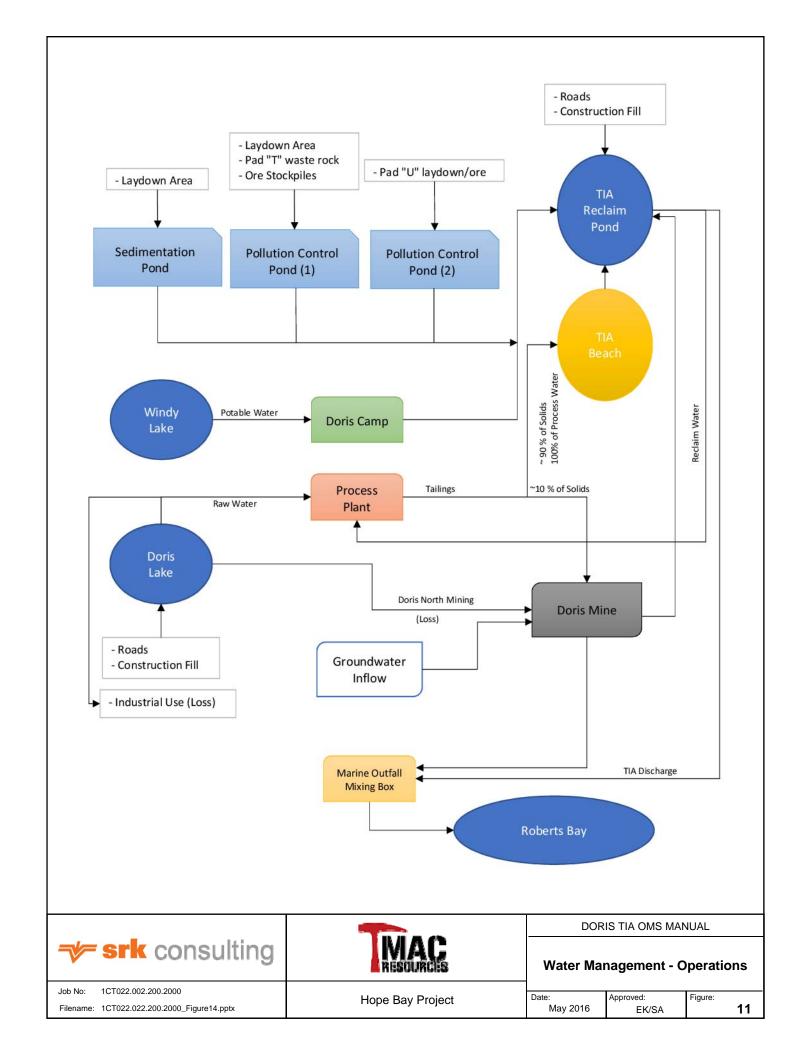
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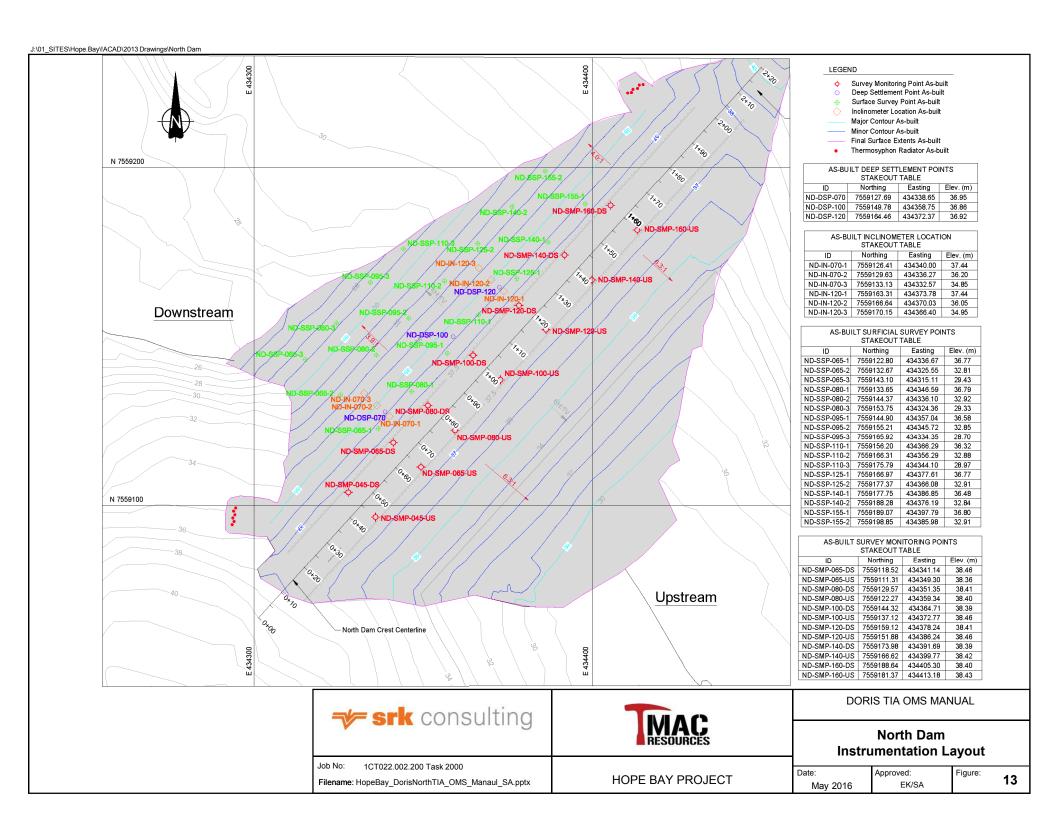
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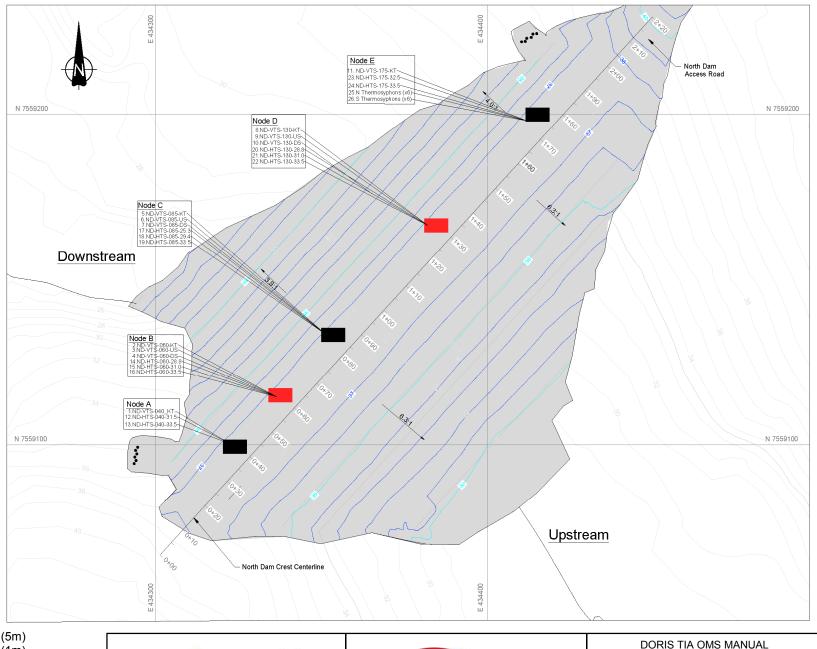
TAILINGS DEPOSITION PLAN (COMPLETE AT YEAR 4 + 5 MONTHS)

DORIS NORTH TIA OMS MANUAL

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Major Contour As-built (5m) Major Contour As-built (1m) Final Surface Extents As-built

Thermosyphon Radiator As-Built

Note: the two weatherproof enclosures which house the data loggers are shown in red.



Job No: 1CT022.002.200 Task 2000

Filename: HopeBay_DorisNorthTIA_OMS_Manaul_SA.pptx



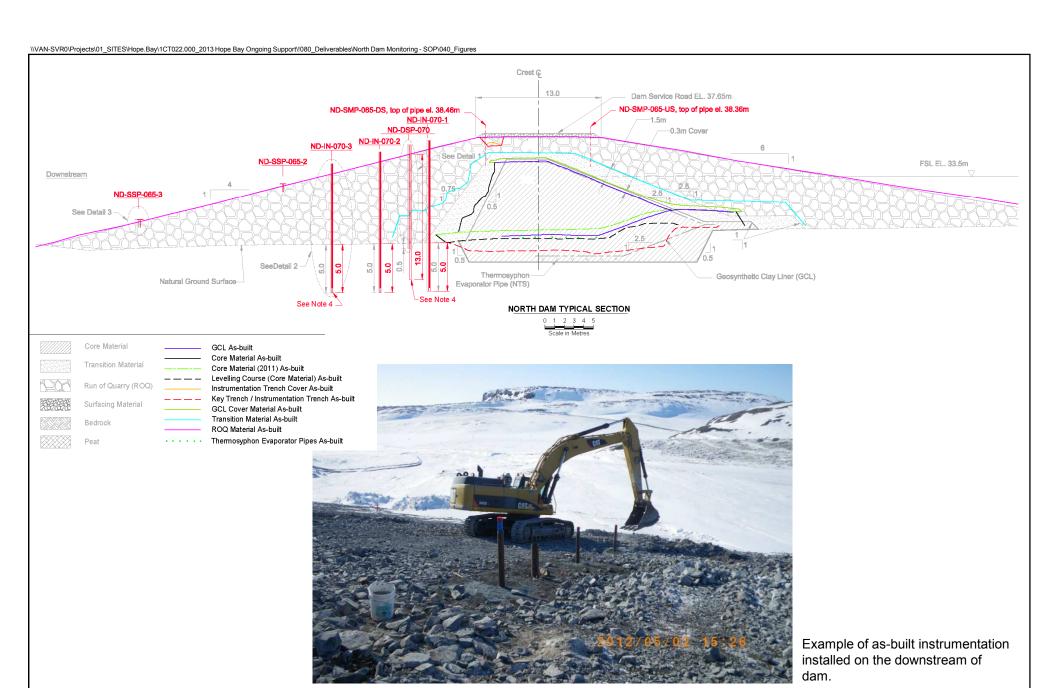
North Dam Ground and

Thermosyphon Temperature Cable Locations

EK/SA

Figure: 14

HOPE BAY PROJECT May 2016



▼ srk consulting

DORIS TIA OMS MANUAL

North Dam Deformation Monitoring Instrumentation Layout

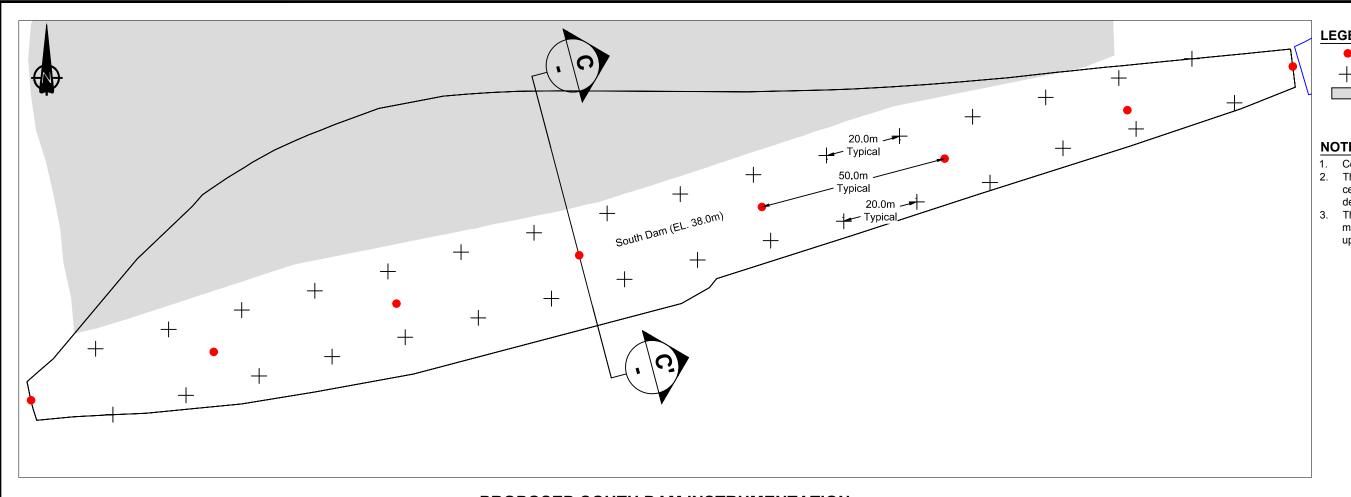
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Approved: EK/SA May 2016

Figure: 15

Job No: 1CT022.002.200 Task 2000

Filename: HopeBay_DorisNorthTIA_OMS_Manaul_SA.pptx



Proposed Monitoring Point Location

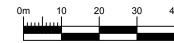
Proposed Thermistor Location

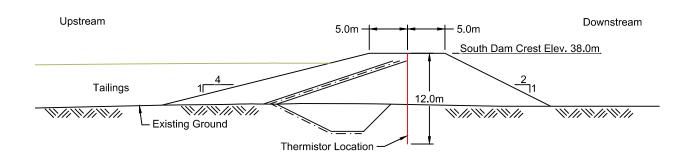
Proposed Tailings Surface

NOTES

- 1. Contours shown at 1.0m interval.
- 2. Thermistors shall be installed through the centerline of the dam every 50m to a depth of 12m.
- 3. The dam crest shall have survey monitoring points at 20m intervals on the upstream and downstream sides.

PROPOSED SOUTH DAM INSTRUMENTATION









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South Dam Monitoring Instrumentation 16 May 2016

SRK JOB NO.: 1CT022.002.2000 FILE NAME: 1CT022.002 - Instrumentation Plan_Figure21.dwg



APPENDIX A: SUMMARY OF CURRENTLY AVAILABLE DUST CONTROL PRODUCTS