Red Dog Mine
Closure and Reclamation Plan

SD C2: Drawings from Updated Geotechnical Report
(URS, 2008)
Figure 1
Site Plan (Aerial View, 2007)

Source:
Tech Cominco Alaska, Inc. (TCAK) "Aerial Photograph", 2007

Job No. 33715D411

Updated Geotechnical Report
Red Dog Tailings Main Dam
Stable VII Raise and Closure
Figure 2
Dam Plan View and Wing Wall Options (Aerial View, 2007)

Updated Geotechnical Report
Tailings Main Dam
Stage VIII Raise and Closure
Red Dog Mine, Alaska

Approximate Scale in Feet

Job No. 33760401
Figure 14

Subsurface Profiles Along Options 4 and 5

Job No. 33764401

Updated Geotechnical Report
Red Dog Tailings Main Dam
Stage VI-B Phase 1 - Closing and Closure
Red Dog Mine, Alaska
1. Bedding dips, coarse layers and fault information is based on a known strike projection into the line of section.

2. Bedding from 54° to 80° has an apparent dip of 75 degrees and has been drawn at 90 degrees to account for 20° in scale exaggeration.

3. Bedding from 54° to 80° has an apparent dip of 75 degrees and has been drawn at 90 degrees to account for 20° in scale exaggeration.

**Legend:**
- 2007 Topography
- 1987 Topography
- Strata Boundaries
- Conformable Beds
- Unconformable Beds
- Fault
- Completed Stage II-B Curtain Wall
- Laminated to Moderately Weathered Siltstone
- Weathered to Highly Weathered Siltstone
- Gravel and Fill
- Silt, Sand and Gravel
- Moderately Weathered Siltstone Lens
- Weathered to Highly Weathered Siltstone
- Ground Surface
- Soil
- Highly Weathered Bedrock

**Key:**
- 90° Equal
- 180° Equal
- 270° Equal

**Figure 18**
Subsurface Profile Along Option 6

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Updated Geotechnical Report
Red Dog Tailings Main Dam
Stage VII Raise and Closure
Red Dog Mine, Alaska
NOTES

1. BEDDING DIPS, COUPLING LAYERS AND FAULT INFORMATION IS BASED ON
   A N320°E STRIKE PROJECTION INTO THE LINE OF SECTION.
2. BEDDING FOR SECTION E–E' HAS AN APPARENT DIP OF 44 DEGREES.
3. BEDDING FOR SECTION F–F' HAS AN APPARENT DIP OF 42 DEGREES.

LEGEND

- 2007 TOPOGRAPHY
- 1987 TOPOGRAPHY
- STRATUM BOUNDARIES
- STAGE VII-B
- SANDSTONE
- SILTSTONE
- SIlTY SAND AND GRAVEL
- GRAVEL AND FILL
- RESIDUAL TO HIGHLY WEATHERED SHALE
- SLIGHTLY TO MODERATELY WEATHERED SHALE
- TAILINGS
- DISTILLATION TANK
- GROUNDWATER
- SOIL
- HIGHLY WEATHERED BEARDOCK
- BEARDOCK

KEY:
- FAULT
- REPRESENTATIVE BEDDING
- GROUND SURFACE

Figure 17
Cross Sections Across Existing Stage VII-B Alignment

Updated Geotechnical Report
Red Dog Tailings Main Dam
Stage VII Raise and Closure
Red Dog Mine, Alaska