Independent Expert Engineering Investigation and Review Panel

Report on Mount Polley Tailings Storage Facility Breach

Appendix H: ATTACHMENTS

Attachment H1: Consolidation Analysis
Appendix H
Attachment 1
Consolidation Analysis
Mt. Polley TSF Estimated Zone S (Core) and Zone C (Shell) Top elevations and Water Level versus time

Failure on August 4, 2014
Mt. Polley TSF Estimated Zone S (Core) and Zone C (Shell) Top elevations and Water Level versus time - from Stage 6 to Failure

- **Top of Shell Elevation (m)**
- **Top of Core Elevation (m)**
- **Zone U elevation (m)**
- **Tailings Pond Elevation (m)**

**Failure on August 4, 2014**

Figure H.A1-2
Mt. Polley TSF Estimated Zone S (Core), Zone C (Shell) and Water Level elevations versus time between May to August, 2014

Failure on August 4, 2014

Figure H.A1-3
Mt. Polley Zone S (Core) and Zone C (Shell) Height Increment per Stage

- Stage 1a/b
- Stage 2a/b
- Stage 2c
- Stage 3a/b
- Stage 3c
- Stage 4
- Stage 5
- Stage 6a
- Stage 6b
- Stage 6b
- Stage 7
- Stage 8
- Stage 9 (2013)
- Stage 9 (2014)

Height Increment (m)

- Zone S Height Increment (m)
- Zone C Height Increment (m)
Figure H.A1-5
Figure H.A1-6
Excess Pore Water Pressure in Middle of Upper GLU Layer (kPa)

Date

Crest
Mid-Slope
Toe

Crest
Mid-Slope
Toe

Glaciolacustrine Kh=Kv
Glaciolacustrine Kh=30Kv

FLOW

Figure H.A1-3