



MP00195

**MOUNT POLLEY MINING  
CORPORATION**  
A DIVISION OF IMPERIAL METALS CORPORATION

June 6, 2014

Heather Narynski, P.Eng  
Sr. Geotechnical Inspector  
Ministry of Energy and Mines  
1810 Blanshard St.  
Victoria, B.C  
V8W 9N3

Dear Ms. Narynski:

**RE: Advice of Geotechnical Incident Form Follow-up (Design Plan)**

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As outlined in the Geotechnical Incident Form submitted by Mount Polley Mining Corporation (MPMC) on May 28, 2014 *Advice of Geotechnical Incident - Mount Polley - 2014 05 2.pdf*, this document provides the "Joint MPMC/Design Engineer Plan and Timeline" in remediating the, "loss of operating condition freeboard at tailings storage facility".

MPMC has been mitigating the loss of operating freeboard since established on Saturday, May 24<sup>th</sup>, 2014, working with the Design Engineer (AMEC), who has had representatives on site since Monday, May 26<sup>th</sup>, 2014. Please find below a summary of measures taken to date, an outline of the plan and timeline for establishing operating freeboard condition (1.3m), and proposed reporting to the Ministry of Energy and Mines (MEM).

Summary of Measures Taken to Date

- All water collection systems have been diverted from the Tailings Storage Facility (TSF)
  - o Water has been routed for storage in the Cariboo Pit
  - o TSF pond elevations have seen no increase over the last seven days (966.4m)
- Using previous survey data, all low areas of Zone S (Till) construction have been identified and remedied
  - o Minimum freeboard is 0.6m, for a length of 1,225m (chainage 15+50 to Station 27+75) along the Main Embankment (El. 967.0m)
  - o Minimum freeboard for the rest of the embankment (~3,300m) is 0.9m (El. 967.3m)
- Upstream armouring of Zone S (Till) material is present around the entire embankment
- Upstream Zone U (CBL) berms to provide wave run-up protection are present for all but ~100m (work continues on the remaining area along the Main Embankment)

Outline of the Plan and Timeline for Establishing Operating Freeboard (1.3m)

- July 1, 2014 target to have Zone S (Till) construction completed to El. 967.9m
  - o With existing pond level (966.4m) this would provide 1.5m of freeboard (allowance of 0.2m pond level increase due to rain events during timeline)
- Water will continue to be diverted to the Cariboo Pit



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Proposed Reporting to the MEM

- Weekly update of above-outlined plan including current freeboard at the TSF, any projected deviation from the construction schedule
  - o Weekly reporting to be continued until 1.0m freeboard re-established at TSF
- Immediate notification of freeboard below 0.5m during this period
- Notification when 1.3m operating freeboard has been re-established

Should you have any questions, please do not hesitate to contact me at (250) 790-2215 ext. 2113 or Dale Reimer at ext. 2600.

Sincerely,

Luke Moger, Project Engineer  
Mount Polley Mining Corporation  
[lmoger@mountpolley.com](mailto:lmoger@mountpolley.com)

Reviewed and Endorsed:

Dmitri Ostritchenko, Project Manager  
AMEC  
[Dmitri.Ostritchenko@amec.com](mailto:Dmitri.Ostritchenko@amec.com)

Cc. George Warnock, Stephen Rothman, Dale Reimer, Art Frye, Dmitri Ostritchenko

Ministry of Energy, Mines and Natural Gas

ADVICE OF GEOTECHNICAL INCIDENT

PART A: To be completed by mine management to document geotechnical incidents.

APPLICABILITY OF THIS FORM

This form applies to any geotechnical incident classified as a dangerous occurrence or to any geotechnical incident that requires changes to an existing standard operating procedure or the creation of a site-specific safe work plan. In addition, any multi-bench pit slope failure, spoil failure resulting in full loss of the crest berm, or dam embankment instability (regardless of size) is to be documented on this form. This form is not intended for single bench failures fully captured by catchment berms or for "sliver" failures on spoils not resulting in a dangerous occurrence.

GENERAL INFORMATION

Name of Mine: MOUNT POLLEY Permit Number: M200
Mining Company: MOUNT POLLEY MINING CORP. Location: LIKELY, BC
Manager: DALE REMER Appropriate Contact: - SAME -
Phone: (250) 790-2215 ext 2600 Phone: - SAME -
Part of Mine Involved/Affected: MOUNT POLLEY TAILINGS STORAGE FACILITY
Date of Event: SATURDAY Probable Time:
Summary of Incident: LOSS OF OPERATING CONDITION FREE BOARD AT TAILINGS STORAGE FACILITY.

Type of slope: [ ] Pit Wall [ ] Waste Rock Spoil [x] Dam Embankment [ ] U/G Rockfall [ ] Other

DETAILS OF EVENT

Potential triggers (weather, mining activity, etc.): EXTENDED WEATHER EVENT
Volume or Mass Involved / Type of Material: N/A / WATER
Description of Incident (include likely failure mechanism, run-out distance, slope height, and pre/post failure slope angle): LOSS OF DESIGN OPERATING FREEBOARD ALLOWANCE AT TAILINGS STORAGE FACILITY
Damage or Consequences: IMPLEMENTATION OF WATER MANAGEMENT PLANS

Immediate (Short-term) Actions Taken by Mine: IMMEDIATE TARGETED RAISE (LOW ELEVATIONS) OF TAIL CORE & DIVERSION OF TSF INFLOW WATER.

**ADVICE OF GEOTECHNICAL INCIDENT OR UNUSUAL OCCURRENCE**

**PART B:** To be completed by mine management to document follow-up actions.

Date / Time of Incident (if Part B not submitted at same time as Part A): \_\_\_\_\_ / \_\_\_\_\_

Follow-up actions by in-house geotechnical personnel: IDENTIFICATION OF MOST CRITICAL AREAS OF LOW FREEBOARD ELEVATION FOR CORE CONSTRUCTION

Has this incident been discussed with / reviewed by a geotechnical consultant? YES (AMEL DESIGN ENGINEER)

Follow-up actions recommended by geotechnical consultant (if applicable): ZONE 5 (TILL) CORE CONSTRUCTION & DIVERSION OF WATER COLLECTION IN TSF.

Any required changes to standard operating procedures? YES, AS PER OMS (I.E. INCREASED MONITORING)

Any site-specific safe work plan(s) required? NO.

Report from mine (including plans and section) or other attachments?

- 1.) N/A
- 2.) \_\_\_\_\_
- 3.) \_\_\_\_\_

Items to be forwarded at a future date / expected date of submission?

- 1.) DETAILED EVENT TIMELINE | MAY 30, 2014
- 2.) DESIGN ENGINEER LETTER | MAY 30, 2014  
REGARDING EVENT
- 3.) INIT MPMC / DESIGN ENGINEER | JUNE 6, 2014  
PLAN AND TIMELINE

Additional Comments: \_\_\_\_\_  
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