

**MEMO**

To Luke Moger
From Laura Wiebe
Tel 604 295 6360 **AMEC File No.** VM00560C.500
Fax 604 294 4664 **cc** Steve Rice (AMEC)
Date 16 August 2013
Subject **Mount Polley Tailings Storage Facility**
2013 Annual Site Inspection Summary Memo

At the request of Mount Polley Mining Corporation (MPMC), this memorandum summarizes the 2013 annual site inspection performed by AMEC. Specifically, this memo outlines the important observations made by AMEC during the inspection and issues discussed with MPMC at the conclusion of the site visit.

AMEC carried out an inspection of the Mount Polley Tailings Storage Facility (TSF) on August 12-13, 2013. Table 1 below outlines the specific issues considered while on site which were noted to require either further discussion or further action.

Table 1: 2013 Annual Site Inspection Observations

Observation	Discussion/Actions Taken
<u>Compaction on the till fill (Zone S)</u> Compaction procedures according to Stage 9 Construction Monitoring Manual specifications were not being followed.	The compaction issue has been directed to the construction contractor (Peterson) by MPMC. A sheepsfoot roller is expected to be brought for use on site in the coming week.
<u>Perimeter Borrow</u> Areas consisting of the glaciolacustrine unit were visible within the Perimeter Borrow. Significant, unblended quantities of this material are unacceptable for use as till fill.	A reminder was made to MPMC to monitor the borrow material more closely in order to avoid the handling and placement of unacceptable material.
<u>Zone C Placement/Preparation</u> Zone C material was being placed on the underlying rockfill lifts that had a "pavement-like" surface.	A reminder was made to MPMC to ensure the underlying lifts are sufficiently scarified prior to subsequent rockfill placement.
<u>Perimeter Embankment Foundation Preparation</u> Some areas of ponded water were observed within the stripped foundation footprint near Stn. 3+900.	AMEC recommended the construction of small drainage pathways to help drain and direct water out of the prepared foundation areas, prior to backfilling with rockfill.
<u>Drainage along Perimeter Embankment Toe</u> Large areas of ponded and flowing water were observed along the embankment toe between Corner 1 and the seepage collection pond.	Discussion included the recommendation by AMEC to begin routing the water away from the toe further west where the initial flow is observed to outlet.



Observation	Discussion/Actions Taken
<p><u>Main Embankment Till Placement</u></p> <p>In some areas along the Main Embankment, there existed no upstream berm adjacent to the till fill.</p>	<p>A recommendation was made by AMEC to complete the upstream berm prior to till fill placement for ease of construction and also to ensure cracking of the till on the upstream side does not occur.</p>
<p><u>Main Embankment Seepage Collection Pond</u></p> <p>The area near the southwest culvert inlet appeared to be backed up with large areas of ponded water.</p>	<p>A recommendation was made by AMEC to repair the backup to avoid further ponding and potential roadway flooding issues.</p>
<p><u>South Embankment Toe Drain</u></p> <p>Small areas of ponded water were observed in the vicinity downstream of the toe drain near Stn. 1+250. The corresponding toe drain pipe outlet was also observed to be functioning at full capacity.</p>	<p>A recommendation was made by AMEC to further investigate the outlets capacity and if the nearby ponded water is a result of toe drain issues.</p>
<p><u>MPMC-AMEC cross-over notes</u></p> <p>MPMC field monitor duties will be finishing around August 20th, with AMEC full-time field support beginning on August 26th.</p>	<p>It was agreed that MPMC will provide AMEC with cross-over notes detailing the current status of the TSF construction activities, as of August 20th.</p>
<p><u>Location of Piezometers</u></p> <p>Some of the existing piezometers within the TSF have been extended, and brought to a new location. Also, an additional existing piezometer was discovered recently.</p>	<p>Discussion included confirming the piezometers by performing a survey of their current locations. MPMC has agreed to complete the survey.</p>

We trust you will find the above in order. Please do not hesitate to contact the writer should you require further clarification.

Yours truly,

**AMEC Environment & Infrastructure,
 a Division of AMEC Americas Limited**

Reviewed by:

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