



BMG TEP PREOGRESS REPORT

1st Sept 2014

Birla Mt. Gordon Pty Ltd
ABN: 67 106 396 801

Level 3, Septimus Roe Square, 256 Adelaide Terrace, Perth WA 6000
P O Box 3074, East Perth WA 6892 AUSTRALIA
Telephone: +61 8 9366-8800 Fax: +61 8 9366-8805
Site Office: Telephone: +61 7 4748 9809 Fax: +61 7 4748-9164



Action	Description of action	TEP due date	BMG progress
Mammoth TSF and Gunpowder Creek			
1	Remove heavy equipment from surface of Mammoth TSF	22 Aug14	Completed before due date. All equipment removed (including large generator and bagged lime), survey completed and area ready for upcoming earthworks.
2	Earthworks to ensure surface of Mammoth TSF is non-pooling.	14 Nov14	Future action – on schedule. Survey completed end of Aug'14. Surveyor has marked areas of cut & Fill. (Topographic map attached). Earthworks will be carried out using onsite equipments & personnel.
3	Improve drainage to manage water. Interception of any surface runoff from concentrate shed.	14 Nov14	Required earthworks shall be conducted in coordination with TEP action #2 The existing drain behind the concentrate shed has been cleaned out and its capacity expanded. The existing pump-back system has been inspected and working OK.
4	Develop Mammoth TSF final landform and cover design.	21 Aug 2015	Future action - on schedule. To date the plan for the final cover remains as defined in the Post Mine Land Use Plan (engineered soil cover system consisting of 4 separate 300mm layers, namely; i) capillary break layer, ii) low-permeable layer, iii) root protection/drainage layer, and iv) growth media layer). No further geotechnical review of materials or cover design has been conducted.
5	Earthworks to execute TSF final landform and cover design.	7 Mar 2017	Future action – on schedule.

Birla Mt. Gordon Pty Ltd
ABN: 67 106 396 801

Level 3, Septimus Roe Square, 256 Adelaide Terrace, Perth WA 6000
P O Box 3074, East Perth WA 6892 AUSTRALIA
Telephone: +61 8 9366-8800 Fax: +61 8 9366-8805
Site Office: Telephone: +61 7 4748 9809 Fax: +61 7 4748-9164

6	Continuation of sump 6 seepage recovery.	Over the term of TEP	Sump 6 seepage recover system was upgraded to include a secondary contingency pump and alarm.
Heap Leach Pads and Magazine Creek.			
7	Decommission evaporation pan on Heap Leach Pad #2 (HLEP2)	14 Nov 2014	Complete, Use as Evaporation pan discontinued.
8	Develop HLEP2 final landform and cover design.	21 Aug 2015	Future action - on schedule. As per TEP #4
9	Earthworks to execute HLEP2 final landform and cover design.	7 Mar 2017	Future action - on schedule.
10	Continue monitoring	Term of TEP	<u>Sediment monitoring</u> – completed for 2013 and scheduled for Sept 14. <u>Surface waters</u> – completed as per EA. No rainfall events or flow in creek line since last reporting period. <u>Ground waters</u> – as per EA. In addition automatic water level sensors installed on GWMB#22, #26 and #44
11	Minimise risk of contaminated water flowing past Mammoth Portal Sump	7 Mar 2017	Future action – on schedule. No flow in Magazine Creek since last reporting period. Pump hire during 2014/15 wet season at Magazine Creek Upstream Diversion, is confirmed as available. Existing electric pump at Mammoth Portal Sump confirmed as operational.
General improvement – Gunpowder Creek			
12	Operation of Esperanza TSF in accordance with Master Seepage Report	Term of TEP	In compliance – as detailed further in Esperanza TSF Management Audit and Continual Improvement Review (BMG, May 2014). Independent audit by GHD scheduled for October, 2014 as a component of the Annual Hazardous Dams review.
13	Continuous operation of Seepage Interception Systems at North Rock, SD#2 and SD#3.	Term of TEP	As per TEP Action #12. General trend of decreasing seepage rates has been observed.

14	Discharge in accordance with court order.	Term of TEP or Court Order	No Gunpowder Creek flow or discharge has occurred since the last reporting period.
15	Annual scaling of visually evident seepage efflorescence at Sump 6.	31 Oct of each year	Preparations continue for the upcoming 2014-15 wet season. Completed on 28 Oct13, and scheduled for October 2014



All equipment & Lime from Mammoth TSF surface have been moved



Mammoth TSF surface – Survey marking for earth work



Old generator of extreme weight was principle cause of consolidation and pooling on Mammoth TSF. Now relocated to adjacent natural surface.





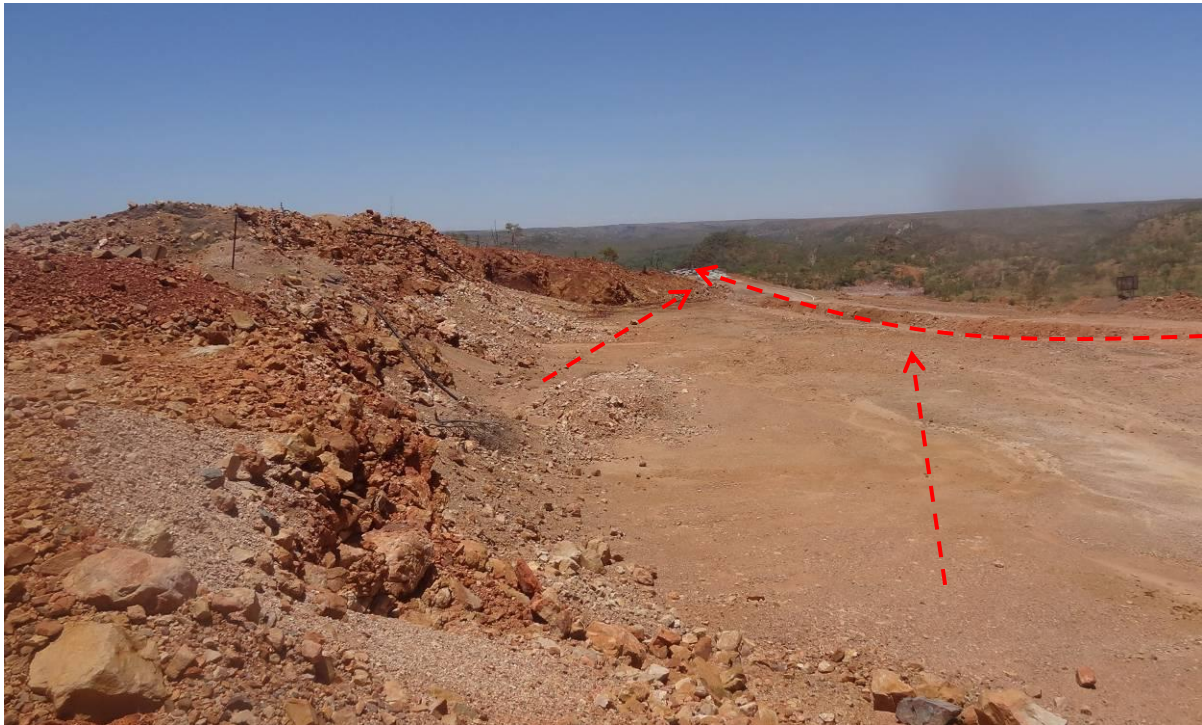
Improve drainage to manage water Interception of any surface runoff from concentrate shed



Excavation of Heap Leach #2 Evaporation Pond's spillway, ensuring facility cannot pool water.



Earthworks to ensure contaminated water drains to pit and not Magazine Creek.



Earthworks to ensure contaminated water from Mammoth Hill drains to pit and not Magazine Creek.



Earthworks to ensure contaminated water from Heap Leach #1 drains to Pit and not Magazine Creek.