

TAILINGS STORAGE FACILITIES

| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. |
|--|---|--|---|------------------------------|--|---|---------------------------------|--|--|--|
| "TAILINGS DAM" NAME/ IDENTIFIER | LOCATION | OWNERSHIP | STATUS | DATE OF INITIAL OPERATION | IS THE DAM CURRENTLY OPERATED OR CLOSED AS PER CURRENTLY APPROVED DESIGN? | RAISING METHOD | CURRENT MAXIMUM HEIGHT | CURRENT TAILINGS STORAGE IMPOUNDMENT VOLUME | PLANNED TAILINGS STORAGE IMPOUNDMENT VOLUME IN 5 YEARS TIME. | MOST RECENT INDEPENDENT EXPERT REVIEW |
| Please identify every tailings storage facility and identify if there are multiple dams (saddle or secondary dams) within that facility. Please provide details of these within question 20. | Please provide Long/ Lat coordinates | Please specify: Owned and Operated, Subsidiary, JV, NOJV, as of March 2019 | Please specify: Active, Inactive/ Care and Maintenance, Closed etc. We take closed to mean: a closure plan was developed and approved by the relevant local government agency, and key stakeholders were involved in its development; a closed facility means the noted approved closure plan was fully implemented or the closure plan is in the process of being implemented. A facility that is inactive or under C&M is not considered closed until such time a closure plan has been implemented. | (date) | Yes/No. If 'No', more information can be provided in the answer to Q20 | Note: Upstream, Centreline, Modified Centreline, Downstream, Landform, Other. | Note: Please disclose in metres | Note: (m3 as of March 2019) | (m3 as planned for January 2024) | (date) For this question we take 'independent' to mean a suitably qualified individual or team, external to the Operation, that does not direct the design or construction work for that facility. |
| Las Bambas TSF1 | 14 degrees 5'58"S 72 degrees 18'56"W | | Active | 2015 | Yes | Downstream | 190 | 185Mm3 | 275Mm3 | Nov-18 |
| Kinsevere TSF1 | 11 degrees 21'45"S 27 degrees 33'18"E | Owned. Operated by previous owner, Anvil Mining | Inactive | 2006 | No - study underway to reclaim | Upstream | 25 | 1.1Mm3 | 0Mm3 | Mar-19 |
| Kinsevere TSF2 | 11 degrees 22'35"S 27 degrees 34'30"E | Owned and Operated | Active | 2011 | Yes | Downstream | 33 | 18.6Mm3 | 26.4Mm3 | Mar-19 |
| Rosebery Bobadil Dam | 41 degrees 45'3"S 145 degrees 30'47"E | Owned and Operated since acquisition in 2009 | Care and Maintenance | 1974 | Yes | Combined upstream and downstream embankment | 35 | 22.9Mm3 | 24.4Mm3 | Mar-19 |
| Rosebery 2/5 Dam | 41 degrees 47'11"S 145 degrees 32'32"E | Owned and Operated | Active. This dam is constructed on historic tailings dams where the date of commissioning is unknown and was undertaken prior to MMG ownership. | 2018 | Yes | Predominately downstream with upstream sections | 26 | 2.5Mm3 (plus unknown existing) | 4.2Mm3 (plus unknown existing) | Mar-19 |
| Dugald River TSF1 | 20 degrees 13'26"S 140 degrees 07'45"E | Owned and Operated | Active | 2018 | Yes | Centreline - single stage construction | 37 | 36.6Mm3 | 36.6Mm3 | Oct-18 |

Instructions to support completion

| 12. | 13. | 14. | 15. | 16. | 17. | 18. | 19. | 20. |
|--|---|--|---|---|---|--|--|---|
| DO YOU HAVE FULL AND COMPLETE RELEVANT ENGINEERING RECORDS INCLUDING DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE AND/OR CLOSURE. | WHAT IS YOUR HAZARD CATEGORISATION OF THIS FACILITY, BASED ON CONSEQUENCE OF FAILURE? | WHAT GUIDELINE DO YOU FOLLOW FOR THE CLASSIFICATION SYSTEM? | HAS THIS FACILITY, AT ANY POINT IN ITS HISTORY, FAILED TO BE CONFIRMED OR CERTIFIED AS STABLE, OR EXPERIENCED NOTABLE STABILITY CONCERNS, AS IDENTIFIED BY AN INDEPENDENT ENGINEER (EVEN IF LATER CERTIFIED AS STABLE BY THE SAME OR A DIFFERENT FIRM). | DO YOU HAVE INTERNAL/ IN HOUSE ENGINEERING SPECIALIST OVERSIGHT OF THIS FACILITY? OR DO YOU HAVE EXTERNAL ENGINEERING SUPPORT FOR THIS PURPOSE? | HAS A FORMAL ANALYSIS OF THE DOWNSTREAM IMPACT ON COMMUNITIES, ECOSYSTEMS AND CRITICAL INFRASTRUCTURE IN THE EVENT OF CATASTROPHIC FAILURE BEEN UNDERTAKEN AND TO REFLECT FINAL CONDITIONS? IF SO, WHEN DID THIS ASSESSMENT TAKE PLACE? | IS THERE A) A CLOSURE PLAN IN PLACE FOR THIS DAM, AND B) DOES IT INCLUDE LONG TERM MONITORING? | HAVE YOU, OR DO YOU PLAN TO ASSESS YOUR TAILINGS FACILITIES AGAINST THE IMPACT OF MORE REGULAR EXTREME WEATHER EVENTS AS A RESULT OF CLIMATE CHANGE, E.G. OVER THE NEXT TWO YEARS? | ANY OTHER RELEVANT INFORMATION AND SUPPORTING DOCUMENTATION. PLEASE STATE IF YOU HAVE OMITTED ANY OTHER EXPOSURE TO TAILINGS FACILITIES THROUGH ANY JOINT VENTURES YOU MAY HAVE. |
| (Yes or No) We take the word "relevant" here to mean that you have all necessary documents to make an informed and substantiated decision on the safety of the dam, be it an old facility, or an acquisition, or legacy site. More information can be provided in your answer to Q20 | | | (Yes or No) We note that this will depend on factors including local legislation that are not necessarily tied to best practice. As such, and because remedial action may have been taken, a "Yes" answer may not indicate heightened risk. Stability concerns might include toe seepage, dam movement, overtopping, spillway failure, piping etc. If yes, have appropriately designed and reviewed mitigation actions been implemented? We also note that this question does not bear upon the appropriateness of the criteria, but rather the stewardship levels of the facility or the dam. Additional comments/information may be supplied in your answer to Q20. | Note: Answers may be "Both". | Note: Please answer 'yes' or 'no', and if 'yes', provide a date. | Please answer both parts of this question (e.g. Yes and Yes) | (Yes or No) | Note: this may include links to annual report disclosures, further information in the public domain, guidelines or reports etc. |
| Yes | Extreme | ANCOLD (2012) Guidelines on the Consequence Categories for Dams | No | Both | Yes - November 2016 | Yes and Yes | Hydrological assessments are updated for extreme events on an ongoing basis and results are checked back against the design during bi-annual comprehensive inspections as per-ANCOLD (2012) Guidelines on Tailings Dams | ANCOLD guidelines are used as minimum design basis, particularly ANCOLD (2012) Guidelines on Tailings Dams and Guidelines on the Consequence Categories for Dams The MMG 2018 Sustainability Report contains further information on tailings storage and a summary of our tailings storage facilities. Details can be found at mmg.com under Reports. |
| No | High C | | No - has experienced non-structural erosion issues | Both | No - Dry facility with non-saturated tailings mass | Yes and Yes | | |
| Yes | Extreme | | No | Both | Yes - November 2018 | Yes and Yes | | |
| No - partial | High C | | No | Both | Yes - November 2013 | Yes and Yes | | |
| No - partial | High C | | Yes - foundation settlement | Both | Yes - June 2016 | Yes and Yes | | |
| Yes | High C | | No | Both | Yes - December 2015 | Yes and Yes | | |