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#### **JUNE 2025**

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## BAOBAB TAILINGS STORAGE FACILITY (TSF)

### **DETAILS OF TAILINGS STORAGE FACILITY**

Baobab
Limpopo
Mogalakwena Platinum (Potgietersrus) Mining Operation (MPMO) owned by Anglo-American Platinum (AAP)
Active
RSA - PGM
50 km south of the city of Polokwane, and about 60 km southeast of Mokopane in Limpopo Province - please refer to Figure 1
-24.3698, 29.4712
Underground
Impoundment (upstream development)
Spigot with a possibility of converting to a hybrid paddock system
2002
Very High
Minopex
SLR Consulting (Pty) Ltd
18
40
95 000
7.9
2029 @1.6m/yr









#### TECHNICAL ASPECTS:

**Stability Assessment and Mitigation** 

**Design Criteria** 

Measures

GISTM and best practice guidelines including Australian National Committee on Large Dams (ANCOLD) (Guidelines on Tailings Dams, July 2019). Site specific design criteria were specified by the EoR. Details are included in the Design Basis Report (DBR).

A detailed stability assessment based on piezocone probing was conducted in January 2025. SLR Project No: 720.070536.00005 Rev 0, 24 March 2025)

All the FoS are above the recommended limits and thus no mitigation measures are required.

Assessment completed in 2022 (SLR Project No: 710.19129.00010, October 2021)

Has been identified by EoRs – please refer to Figure 2 to 4

Consequence classification has been based on Population at Risk (PAR). Communities have been identified and are being engaged through various means. An appointed external specialist has conducted vulnerability assessments for communities located within the Area of Inundation

#### **DOCUMENTATION:**

**Dam Breach Assessment** 

Summary of Human Exposure

Area of Inundation

Site Specific OMS Manual

Version 2022 available Mandatory Code of Practice (MCOP) Reference No: SS-ZA-PGM's-MCOP-ENG-CON-0002 is in place (dated June 2024)

Design Basis Report (DBR)

Environmental Management System

Version 2023 available (SLR Project No: 720.19129.00031 Rev 1, February 2023)

The Environmental Management System is ISO accredited (ISO 14001:2015)

The initial Environmental Management Programme (EMPr) is dated 2010.





<u>Surveillance:</u> Surveillance Frequency

Surveillance Technology/System

**Deformation Monitoring** 

Phreatic Surface Levels & Pore Pressure Measurements

#### RISK MANAGEMENT / EMERGENCY PREPAREDNESS:

**Risk Assessment** 

**Risk Management** 

Site Specific Emergency Preparedness & Response Plans (EPRP)

Daily by the Operator and monthly reports of critical and operational controls submitted to and reviewed by the EoR

Quartex and Groundwork Geolytics

Interferometric Synthetic Aperture Radar (InSAR)

Standpipe piezometers AquaSense Retrofit piezometers (IoT device) Vibrating Wire Piezometers (VWPs)

Annual Risk Assessment (Failure Mode Effect Analysis) completed with no untoward risk identified

Site specific OMS Manual in place Site specific Trigger Action Response Plans (TARPs) in place Critical and operational controls established and implemented

Version 2024 available

Annual emergency mock drill for a catastrophic TSF failure – undertaken on 20 June 2023 with SSW employees and contractors.

Environmental emergency preparedness is managed on site according to ISO14001: 2015.

#### **CLOSURE & POST CLOSURE**

**Closure Planning** 

**Closure Costing** 

In place - report prepared by Golder Associates (Golder Reference: 20141966-340303-10, March 2021)

Adequate financial capacity in place Financials prepared by Golder Associates (Golder Reference: 21467928-349392-3, December 2021)

Asset Insurance Cover

In place – July 2024 to June 2025 (renewal process has commenced)





## Independent Reviews:

Independent Tailings Review Board (ITRB)	29 June 2023 with no material concerns identified
Future ITRB Review	June 2026
Performance Reviews	Annual and quarterly reports and inspections completed by EoR (SLR Project No: 720.070536.00005 Rev 0, 24 March 2025)
Dam Safety Review (DSR)	Carried out by an independent third party in 2021. All recommendations at the time have been addressed in the last year. (SRK Project Number: 502225, March 2021)
	Next review is currently underway







Figure 1: Layout of Baobab TSF





Figure 2: East Failure Area of Inundation



Figure 3: North East Failure Area of Inundation







Figure 4: Storm Water Cascade Failure Area of Inundation

