

JULY 2023

BLUE RIDGE TAILINGS
 STORAGE FACILITY (TSF)

DETAILS OF TAILINGS STORAGE FACILITY

Tailings Storage Facility (TSF) Name	Blue Ridge
Operation	Limpopo
Operational Status	Dormant since 2010
Operating Segment	RSA - PGM
Location	Approximately 22km south-east of Groblersdal – please refer to Figure 1
Latitude, Longitude (decimals)	-25.24845, 29,574672
Ore Source	Underground
Type of Storage Facility	Impoundment (upstream development)
Deposition Methodology	Spigot
Year of Commissioning	Pre 1980
Consequence Classification (GISTM, 2020)	Low - TBC following the Dam Breach Assessment
Operating Contractor	Fraser Alexander (Pty) Ltd (FAT)
Engineer of Record (EoR)	Knight Piesold (Pty) Ltd (KP)
Current Maximum Height (m)	9
Final Maximum Height (m)	9
Total Volume Already Deposited (Mm³)	1 Mm ³
Life of TSF (year)	N/A



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TECHNICAL ASPECTS:

Design Criteria

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 will be included in the Design Basis Report (DBR) that is currently being prepared.

Stability Assessment and Mitigation Measures (if applicable)

A detailed stability assessment based on geotechnical investigations and laboratory test work will be conducted in Q4 2023.

Dam Breach Assessment

A dam breach assessment is currently being undertaken by the EoR and will include the Consequence Classification in accordance with GISTM. The results of which will be available in Q4 2023.

The zone of influence was determined by KP previously according to SANS 10286 – please refer to Figure 2. The TSF classified as a Low Hazard facility

Zone of Influence

Has been identified by EoRs according to SANS 10286 – please refer to Figure 2

Summary of Human Exposure

Consequence classification will be based on Population at Risk (PAR). Communities have been identified surrounding the TSF and are being engaged through various means

DOCUMENTATION:

Site Specific OMS Manual

The OMS Manual is currently being prepared by the EoR and will be available in Q4 2023

Mandatory Code of Practice (MCOP) Document No: AISP.P87.D02 is in place (dated November 2008)

Design Basis Report (DBR)

The DBR is currently being prepared by the EoR and will be available in Q4 2023



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Environmental Management System

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

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

Surveillance:

Surveillance Frequency

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

Surveillance Technology/System

K2Fly Decipher

Deformation Monitoring

Interferometric Synthetic Aperture Radar (InSAR)

Phreatic Surface Levels & Pore Pressure Measurements

Standpipe piezometers

RISK MANAGEMENT / EMERGENCY PREPAREDNESS:

Risk Assessment

The Risk Assessment is currently being prepared by SSW in collaboration with the EoR and will be available in Q4 2023

Risk Management

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

Site Specific Emergency Preparedness & Response Plans (EPRP)

Version 2023 is currently being finalised and will be available in Q4 2023

An annual emergency mock drill for a catastrophic TSF failure will be undertaken in Q4 2023 with SSW employees and contractors.



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CLOSURE & POST CLOSURE

Closure Planning

In place - report prepared by Golder Associates
(Golder Reference: 20138272-341347-2, April 2021)

Closure Costing

Adequate financial capacity in place
Financials prepared by Golder Associates
(Golder Reference: 21467970-349390-1, March 2022)

Asset Insurance Cover

In place – July 2022 to June 2023 (currently undergoing renewal)

Independent Reviews:

Future ITRB Review

2024

Performance Reviews

The EoR is currently preparing annual and 6 monthly reports with inspections

Dam Safety Review (DSR)

Carried out by an independent third party in 2020. All recommendations at the time have been addressed in the last 2 years.
(KP Reference: RI301-00877/02 Rev B, 26 August 2020)

Next review scheduled for 2024



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Figure 1: Layout of Blue Ridge TSF



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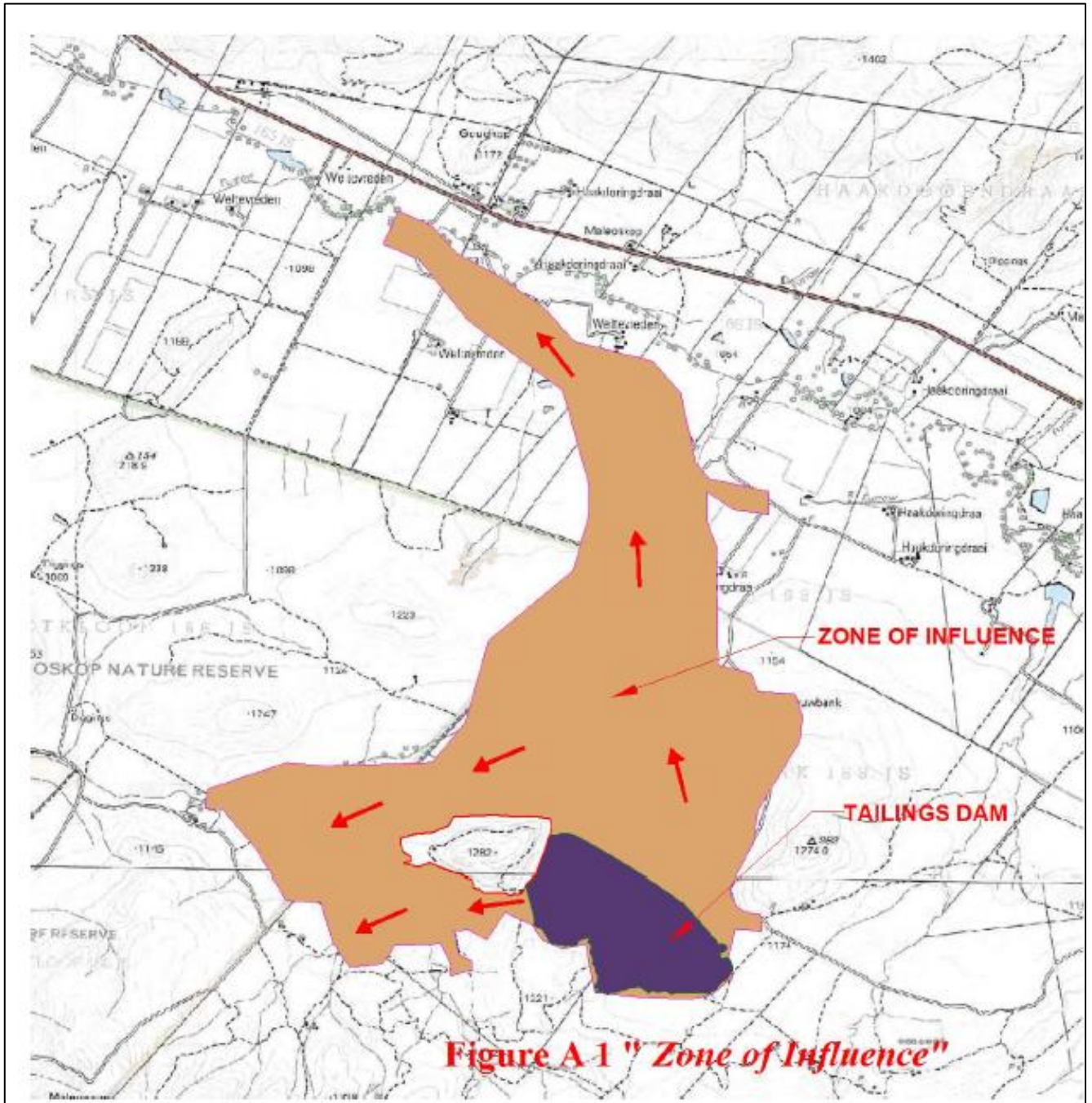


Figure 2: Zone of Influence according to SANS 10286