

POTENTIAL ENVIRONMENTAL IMPACT	APPLICABLE AREA	ACTIVITY
CLIMATE		
GEOLOGY		
TOPOGRAPHICAL AND VISUAL		
SOILS AND LAND CAPABILITY		
SOCIAL		
ECOLOGY		
SURFACE WATER/HYDROLOGY		
GROUNDWATER		
AIR QUALITY		
NOISE		

TRAFFIC		
LAND USES		
HERITAGE RESOURCES		
Graves and burial grounds	Mgeni Adit	Construction Phase

Sites of religious or spiritual significance

Mgeni Adit

Construction of PC dam

Paleontological / fossil sites

Mgeni Adit

Construction Phase

					-	L
					+	L
					+	L
					-	L
					+	L
					+	L
8	5	2	3	45	-	M

8	5	2	5	75	-	H
---	---	---	---	----	---	---

8	5	3	4	64	-	H
---	---	---	---	----	---	---

RECOMMENDED MITIGATION MEASURES	E
	M

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

--	--

A buffer of 20 m is recommended around the large burial ground (No.1 on Table 2) which is situated east of the vent fan to avoid damage to the graves and to the Shembe site during the construction and operation of the new mine	8

The buffer should consist of durable material such as fencing which is visible to workers throughout the construction and operation of the new mine. It should be replaced if it is accidentally damaged in any way.

No work may take place within the buffer zone.

Construction workers must be made aware that graves could be found in the area of the Mgeni Adit and that if graves are found all work must stop in the area and a decision made what is to be done with the grave/s. Work can only proceed in the area once the grave/s have either been removed or secured.

If, for any reason, graves or cemeteries have to be moved, then a Phase 2 HIA will need to be undertaken during which process, the family and community will have to be engaged with to obtain their permission and to discuss where the remains are to be moved to. In addition, application will have to be made to Amafa for the necessary permits

Currently, the site is directly impacted by the proposed PC dam. If the dam cannot be moved, then consultation must be held with the Shembe leaders in the community to determine where the site can be moved to. Structures associated with the site will have to be moved as well.

4

A desktop palaeontological impact assessment (PIA) must be undertaken to assess the extent and significance of fossils that will be impacted by the proposed mine as well as determining whether a field assessment will be required.

6

If the desktop PIA determines that sensitive fossil finds will be impacted, then a field assessment must be undertaken. This may entail the removal of fossils from the project area.

All recommendations of the desktop PIA and field assessment must to be implemented

**ENVIRONMENTAL SIGNIFICANCE
AFTER MITIGATION**

D	S	P	TOTAL	STATUS	SP
---	---	---	-------	--------	----

--	--	--	--	--	--

				-	L
--	--	--	--	---	---

				+	L
--	--	--	--	---	---

--	--	--	--	--	--

				-	L
--	--	--	--	---	---

--	--	--	--	--	--

				+	L
--	--	--	--	---	---

--	--	--	--	--	--

				-	L
--	--	--	--	---	---

				-	L
--	--	--	--	---	---

--	--	--	--	--	--

				-	L
--	--	--	--	---	---

--	--	--	--	--	--

				-	L
--	--	--	--	---	---

				-	L
--	--	--	--	---	---

--	--	--	--	--	--

				-	L
--	--	--	--	---	---

				-	L
--	--	--	--	---	---

--	--	--	--	--	--

				-	L
--	--	--	--	---	---

				-	L
--	--	--	--	---	---

				-	L
--	--	--	--	---	---

				-	L
--	--	--	--	---	---

				-	L
--	--	--	--	---	---

--	--	--	--	--	--

				-	L
--	--	--	--	---	---

--	--	--	--	--	--

				-	L
				+	L
				+	L
				-	L
				+	L
				+	L
4	2	2	28	-	L

5	2	2	22	-	L
---	---	---	----	---	---

5	2	3	39	-	M
---	---	---	----	---	---