Taking the assessment of potential impacts into account, herewith please receive an environmental impact statement that summarises the impact that the proposed activity may have on the environment after the management and mitigation of impacts have been taken into account, with specific reference to types of impact, duration of impacts, likelihood of potential impacts actually occurring and the significance of impacts.

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ENVIRONMENTAL IMPACT STATEMENT

SITE ALTERNATIVE 1

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TYPE OF IMPACT	DURATION	LIKELIHOOD	SIGNIFICANCE
Site establishment & infrastructure development			
Alteration of the agricultural sense of place;	Duration of site	Possible	Low-Medium Concern
Loss of agricultural land for duration of mining;	establishment phase	Low Possibility	Low-Medium Concern
Visual intrusion as a result of site establishment;	(<1 month)	Low Possibility	Low-Medium Concern
Potential impact on fauna within the footprint area;		Low Possibility	Low Concern
Potential impact on vegetation and listed and/or protected plant species		Low Possibility	Low Concern
Dust nuisance due to site establishment		Low Possibility	Low-Medium Concern
Potential impact on archaeological artefacts;Work opportunities to 6 local residents		Low Possibility	Low Concern
(Positive Impact)			
		Definite	Medium-High (+)
Construction of site access road:	Duration of site		
 Visual intrusion caused by construction of site access road 	establishment phase (<1 month)	Possible	Low Medium Concern
 Loss of stockpiled topsoil during construction of access road 		Low Possibility	Low-Medium Concern
Dust nuisance as a result of the construction of access road		Low Possibility	Low Concern
Noise nuisance generated by earthmoving		Low Possibility	Low Concern
machinery. Intersection/ destruction of drainage lines		Low Possibility	Medium Concern
Potential erosion of denuded areas.		Low Possibility	Low Concern

SITE ALTERNATIVE 1					
 Potential contamination of footprint area and surface runoff as a result of hydrocarbon spillages. 		Low Possibility	Low Concern		
 Mining of sand: Soil contamination from hydrocarbon spills. Disturbance to fauna within the footprint area. Noise nuisance as a result of the mining activities. Potential impact on areas/infrastructure of heritage or cultural concern. 	Duration of operational phase (5 years maximum)	Low Possibility Low Possibility Low Possibility Low Possibility Low Possibility	Low Concern Low Concern Low Concern Low Concern Low Concern		
Stripping and stockpiling of topsoil and/or overburden: Visual intrusion caused by mining activities; Loss of stockpiled topsoil during mining and	Duration of site establishment phase (<1 month)	Low Possibility Low Possibility	Low Medium Concern Low Medium Concern		
stockpiling;Dust nuisance as a result of the disturbance of soil;		Low Possibility	Low Concern		
 Noise nuisance generated by earthmoving machinery; 		Low Possibility	Low Concern		
 Infestation of the topsoil heaps and mining area with weeds or invader plant species; Potential impact on local fauna due to 		Low Possibility Low Possibility	Low Concern		
 disturbance and loss of available habitat; Potential erosion of denuded areas; Loss of stockpiled material due to ineffective 		Low Possibility Low Possibility	Low Concern Low Medium Concern		
 storm water control Potential contamination of footprint area and surface runoff as a result of hydrocarbon spillages; 		Possible	Low Concern		
Excavation, loading and hauling to the screening plant: • Visual intrusion as a result of excavation and from loading and vehicles transporting the material	Duration of operational phase (5 years maximum)	Low Possibility Low Possibility	Low Medium Concern		

SITE ALTERNATIVE 1					
 Dust nuisance due to excavation and from loading and vehicles transporting the material; Noise nuisance as a result of the mining activities; Unsafe working environment for employees; Soil contamination from hydrocarbon spills and/or littering; Potential impact on areas of palaeontological concern; Facilitation of erosion due to mining activities; 		Low Possibility Low Possibility Low Possibility Low Possibility Low Possibility	Low Concern Low Medium Concern Low Medium Concern Low Concern Low Concern		
 Processing, stockpiling and transporting of material Dust nuisance generated at the processing plant; Noise nuisance stemming from operation of the processing plant; Visual intrusion as a result of operation of the processing plant Potential contamination of environment due to improper waste management; Overloading of trucks impacting road infrastructure; Degradation of the access road; 	Duration of operational phase (5 years maximum)	Low Possibility Low Possibility Low Possibility Low Possibility Low Possibility Low Possibility	Low Concern Low Concern Low Medium Concern Low Concern Low Medium Concern Low Medium Concern		
Cumulative impacts: Impact the broad-scale ecological processes; Transformation of intact habitat would contribute to the fragmentation of the landscape and would potentially disrupt the connectivity of the landscape for fauna, avifauna, and flora and impair their ability to respond to environmental fluctuations Impact on existing infrastructure as a direct result of the mining operation;	Duration of all phases	LIKELIHOOD Low Possibility Low Possibility Low Possibility	SIGNIFICANCE Low Medium Concern Low Medium Concern Low Medium Concern		

SITE ALTERNATIVE 1

Sloping and landscaping upon closure of the mining		LIKELIHOOD	SIGNIFICANCE
area:	Duration of		
Safety risk posed by un-sloped areas;	decommissioning	Low Possibility	Low Medium Concern
Erosion of returned topsoil after rehabilitation;	phase	Low Possibility	Low Medium Concern
Infestation of the reinstated areas by weeds	(±2 months)	Low Possibility	Low Medium Concern
and invader plant species;			
Potential impact associated with litter/waste		Low Possibility	Low Medium Concern
left at the mining area.			
Return of the mining area to landscape feature		Low Possibility	Low Medium Concern
upon closure (Positive Impact).			
		Definite	Medium-High (+)