ENVIRONMENTAL IMPACT STATEMENT

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.

	ENVIRONMENTAL IMPACT STATEMENT					
	SITE ALTERNATIVE 1					
TYPE OF IMPACT		DURATION	LIKELIHOOD	SIGNIFICANCE		
Site	Establishment:					
	Alteration of the agricultural sense of place	Duration of site	Possible	Low Medium Concern		
•	Loss of agricultural land for duration of mining	establishment phase	Possible	Low Medium Concern		
•	Visual intrusion as a result of site establishment.	(<1 month)	Possible	Low Medium Concern		
*	Loss of topsoil and fertility during mining and stockpiling		Low Possibility	Low Medium Concern		
	Infestation of the topsoil heaps and mining		Low Possibility	Low Medium Concern		
	area with invader plant species.			Low Medium Concern		
	Potential impact on archaeological artefacts		Low Possibility	Low Medium Concern		
	Potential impact on fauna within the footprint		Low Possibility			
	area.			Medium Concern		
	Potential impact on vegetation and listed and/or protected plant species		Low Possibility	Medium Concern		
•	Dust nuisance due to excavation and from		Low Possibility	Low Medium Concern		
	loading and vehicles transporting the material					
			Low Possibility	Low Concern		
	Work opportunities to 4 local residents					
	(Positive Impact)		Definite	High (+)		
	TYPE OF IMPACT	DURATION	LIKELIHOOD	<u>SIGNIFICANCE</u>		
Construction of site access road:						
	Visual intrusion caused by construction of site	Duration of site	Possible	Low Medium Concern		
	access road	establishment phase				
	Loss of stockpiled topsoil during construction	(<1 month)	Low Possibility	Low-Medium Concern		
	of access road		Low Possibility	Low-Medium Concern		

•	Dust nuisance as a result of the construction			
	of access road Noise nuisance generated by earthmoving		Low Possibility	Low-Medium Concern
	machinery. Potential erosion of denuded areas.		Low Possibility	Low-Medium Concern
	Potential contamination of footprint area and surface runoff as a result of hydrocarbon spillages.		Low Possibility	Low-Medium Concern
Min	ing of aggregate / gravel		LIKELIHOOD	SIGNIFICANCE
	Soil contamination from hydrocarbon spills.	Duration of operational	Low Possibility	Low-Medium Concern
8 8	Disturbance to fauna within the footprint area. Noise nuisance as a result of the mining	phase (5 years maximum)	Low Possibility	Low-Medium Concern
	activities.		Low Possibility	Low-Medium Concern
	Potential impact on areas/infrastructure of		Low Possibility	Low-Medium Concern
	heritage or cultural concern.		Low Possibility	Low-Medium Concern
	shing, screening, stockpiling and transporting erial from site:	Duration of operational	LIKELIHOOD	<u>SIGNIFICANCE</u>
•	Loss of stockpiled material due to ineffective storm water control	phase (5 years maximum)	Low Possibility	Medium Concern
	Dust nuisance as a result of the mining activities.		Low Possibility	Low Medium Concern
	Visual intrusion as a result of operation of the processing plant		Low Possibility	Low Medium Concern
*	Noise nuisance as a result of the mining activities.		Low Possibility	Low Medium Concern
*	Potential impact associated with littering and hydrocarbon spills.		Low Possibility	Low Medium Concern
*	Infestation of denuded areas with invader plant species.		Low Possibility	Low Medium Concern
	Deterioration of the access road to the mining area.		Possible	Medium Concern
*	Overloading of trucks having an impact on the public roads.			Medium Concern
	oing and landscaping upon closure of the mining		LIKELIHOOD	SIGNIFICANCE
area		Duration of		
	Erosion of returned topsoil after rehabilitation.	decommissioning	Low Possibility	Medium Concern
	Infestation of the reinstated area with invader	phase		
	plant species. Noise nuisance as a result of the	(±2 months)	Low Possibility	Medium Concern
7	decommissioning activities			
	accommodering activities			

Potential	impact	associated	with	Low Possibility	Low Medium Concern
litter/hydrod	arbon spills	left at the mining	g area.		
Return of the mining area to agricultural use			al use	Low Possibility	Medium Concern
by the landowner (Positive Impact).					
				Definite	Medium-High (+)

ENVIRONMENTAL IMPACT STATEMENT

SITE ALTERNATIVE 2

TYPE OF IMPACT	DURATION	LIKELIHOOD	<u>SIGNIFICANCE</u>
Site Establishment: Alteration of the agricultural sense of place Loss of agricultural land for duration of mining Visual intrusion as a result of site establishment. Loss of topsoil and fertility during mining and stockpiling Infestation of the topsoil heaps and mining area with invader plant species. Potential impact on archaeological artefacts	Duration of site establishment phase (<1 month)	Possible Possible Possible Low Possibility Low Possibility Low Possibility	Low Medium Concern
Potential impact on fauna within the footprint area.		Low Possibility	Low Medium Concern
Potential impact on vegetation and listed and/or protected plant species		Low Possibility	Low Medium Concern
Dust nuisance due to excavation and from loading and vehicles transporting the material		Low Possibility	Low Medium Concern
■ Work opportunities to 4 local residents		Low Possibility	Low Medium Concern
(Positive Impact)		Definite	High (+)
TYPE OF IMPACT	DURATION	LIKELIHOOD	<u>SIGNIFICANCE</u>
Construction of site access road: Visual intrusion caused by construction of site access road	Duration of site establishment phase	Possible	Low Medium Concern
Loss of stockpiled topsoil during construction of access road	(<1 month)	Low Possibility	Low-Medium Concern
Dust nuisance as a result of the construction of access road		Low Possibility	Low-Medium Concern
Noise nuisance generated by earthmoving machinery.		Low Possibility	Low-Medium Concern
 Potential erosion of denuded areas. Potential contamination of footprint area and 		Low Possibility	Low-Medium Concern
surface runoff as a result of hydrocarbon		Low Possibility	Low-Medium Concern
spillages.		Definite	

 Mining of aggregate / gravel 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)	LIKELIHOOD Low Possibility Low Possibility Low Possibility Possibility Low Possibility	SIGNIFICANCE Low-Medium Concern Low-Medium Concern Low-Medium Concern Low-Medium Concern Low-Medium Concern
Crushing, screening, stockpiling and transporting material from site:	Duration of operational	LIKELIHOOD	SIGNIFICANCE
Loss of stockpiled material due to ineffective storm water control	phase (5 years maximum)	Low Possibility	Medium Concern
Dust nuisance as a result of the mining activities.		Low Possibility	Low Medium Concern
Visual intrusion as a result of operation of the processing plant		Low Possibility	Low Medium Concern
Noise nuisance as a result of the mining activities.		Low Possibility	Low Medium Concern
Potential impact associated with littering and hydrocarbon spills.		Possibility	Low Medium Concern
Infestation of denuded areas with invader plant species.		Low Possibility	Medium Concern
Deterioration of the access road to the mining area.		Possible	Medium Concern
Overloading of trucks having an impact on the public roads.			Medium Concern
Sloping and landscaping upon closure of the mining area:	Duration of	LIKELIHOOD	SIGNIFICANCE
Erosion of returned topsoil after rehabilitation.Infestation of the reinstated area with invader	decommissioning	Low Possibility	Medium Concern
plant species.	phase (±2 months)	Low Possibility	Low Medium Concern
Noise nuisance as a result of the decommissioning activities		Low Possibility	Low Medium Concern
Potential impact associated with litter/hydrocarbon spills left at the mining area.		Low Possibility	Medium Concern
Return of the mining area to agricultural use by the landowner (Positive Impact).		Definite	Medium-High (+)