

Project Name: Styr-Kraal Agricultural Development				Nature of Impact					Without Mitigation (Baseline)					With Mitigation					With Mitigation Score (Impact Assessment)	Short Description of some Mitigation Measures / Enhancement Measures
ENVIRONMENTAL RATING SIGNIFICANCE KEY	Number	Aspect	Impact	Probability (Likelihood)	Extent	Duration (Frequency)	Magnitude (Intensity/Severity)	Receiving Environment (Consequence)	Without Mitigation Score (Baseline)	Probability (Likelihood)	Extent	Duration (Frequency)	Magnitude (Intensity/Severity)	Receiving Environment (Consequence)						
															CONSTRUCTION PHASE					
ENVIRONMENTAL RATING SIGNIFICANCE KEY Negative Impacts: Very Significant: >11 to -15 Significant: >7 to -11 Increasing Significance: >4 to -7 Moderate: -2 to -4 Negligible: -1 to -2 Very Low: -1 to -2 Positive Impacts: Significant: 18 to 16 Increasing Significance: 4 to <10 Significant: 1 to 4	1	Soil	On site erosion due to improper management of stormwater during construction. Exposed platforms and trenches excavated for pipeline are susceptible to erosion during the construction phase.	-8	-2	-2	-8	-8	-6	-4	-2	-2	-4	-2	-2	-3				
	2		Erosion and safety hazards associated with excavated pipeline which is not backfilled.	-8	-2	-4	-8	-4	-6	-2	-1	-2	-2	-8	-2	-3				
3		Sedimentation of drainage line and Orange River due to uncontrolled stormwater	-2	-2	-8	-16	-4	-7	-1	-2	-4	-4	-8	-2	-4					
4	Watercourse	Contamination of large drainage line and Orange River due to usage of agro chemicals on vineyards and date orchards	-2	-1	-8	-16	-4	-7	-2	-1	-2	-2	-2	-2	-2					
5	Waste	Insufficient number of toilets and / or inappropriate disposal of sewage generated during the construction phase.	-8	-4	-2	-8	-4	-6	-2	-1	-2	-2	-4	-2	-3					
6		Temporary increase in waste and litter contaminating the receiving environment	-8	-4	-2	-4	-4	-5	-4	-2	-2	-2	-2	-4	-3					
7		Clearance of indigenous vegetation from proposed site	-8	-2	-8	-8	-4	-6	-8	-2	-2	-2	-4	-4	-4					
8		Protected & endangered plant species: Potential impact on threatened or protected	-16	-2	-8	-16	-4	-10	-4	-2	-2	-2	-2	-2	-3					
9		Conservation priority: Potential impact on protected areas, CBA's, ESA's or Centre's of Endemism.	-16	-2	-4	-4	-8	-7	-4	-2	-2	-2	-2	-2	-3					
10		Landuse and cover: Potential impact on socio-economic activities.	-4	-2	-2	-4	-4	-4	0	-2	-1	-1	-4	-4	-3					
11	Botanical	Connectivity: Potential loss of ecological migration corridors.	-4	-4	-2	-4	-4	-4	-4	-2	-2	-2	-2	-4	-3					
12		Encroachment of alien invasive vegetation in disturbed areas during construction activities	-16	-2	-4	-4	-8	-7	-4	-2	-2	-2	-2	-2	-3					
13		Veld fire risk: Potential risk of veld fires as a result of the activities.	-4	-2	-2	-4	-4	-4	-4	-2	-2	-2	-2	-4	-3					
14		Cumulative impacts: Cumulative impact associated with proposed activity.	-16	-2	-8	-8	-8	-9	-4	-2	-2	-2	-4	-4	-4					
15		The "No-Go" option: Potential impact associated with the No-Go alternative.	-16	-4	-8	-8	-8	-9	0	0	0	0	0	0	0					
16	Services	Increased demand for services impacting current services capacity (i.e. increased demand for water, electricity, sewage disposal).	-16	-2	-16	-8	-4	-10	-4	-2	-8	-8	-2	-4	-4					
17	Impact on Cultural, Archaeological	Artefacts may be discovered and/or damaged during the construction phase.	-2	-4	-2	-4	-2	-3	-2	-2	-2	-2	-2	-2	-2					
18	Paleontological and Heritage	Loss and/or damage to potential fossils and archaeological and historical sites within the construction footprint	-2	-4	-2	-4	-2	-3	-2	-2	-2	-2	-2	-2	-2					
20	Socio-economic	Creation of short-term employment opportunities during the construction phase.	8	2	2	4	2	4	8	2	2	2	4	2	4					
21	Dust	Dust will be generated during the construction of the proposed development which may impact drivers and commuters.	-8	-4	-2	-8	-2	-5	-2	-4	-2	-2	-4	-2	-3					
22	Visual	Site may be not aesthetic amid natural background.	-16	-2	-16	-4	-2	-8	-16	-2	-2	-2	-1	-2	-5					
23	Noise	Noise will be generated during the construction phase.	-8	-2	-2	-4	-4	-4	-4	-2	-2	-2	-2	-4	-3					
24	Unsustainable sourcing of raw materials	Illegal sourcing of raw materials, such as gravel, sand, water etc. promoting illegal mining operations causing significant damage to the environment.	-8	-4	-8	-8	-8	-8	-2	-1	-4	-4	-8	-4	-4					
OPERATIONAL PHASE																				
25	Sewage Management	Impact on the receiving environment, especially the Orange River, due to the inability of the sewage disposal method to adequately prevent the contamination of the surrounding environment.	-8	-8	-8	-16	-8	-10	-4	-4	-2	-2	-4	-4	-4					
27	Water supply	Increased pressure on water source for water supply.	-8	-4	-1	-8	-8	-6	-4	-4	-1	-1	-4	-4	-4					
28	Botanical	Encroachment of alien invasive vegetation throughout the site.	-4	-2	-4	-8	-4	-5	-2	-2	-4	-4	-4	-1	-3					
DECOMMISSIONING AND CLOSURE PHASES																				