

Project Name: Opwag Housing Development				Nature of Impact					Without Mitigation (Baseline)					With Mitigation				
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)	With Mitigation Score (Impact Assessment)				
															ENVIRONMENTAL RATING SIGNIFICANCE KEY			
Negative Impacts		SIGNIFICANCE	RATING	Final rating score / value range														
↑	Very Significant	Very High	>11 to -16															
	Significant	High	>7 to -11															
	Increasing Significance	Medium	>4 to -7															
	Insignificant	Low	-2 to -4															
Positive Impacts		SIGNIFICANCE	RATING	Final rating score / value range														
↓	Significant	High	10 to 16															
	Increasing Significance	Medium	4 to <10															
	Insignificant	Low	1 to <4															
CONSTRUCTION PHASE																		
1		Geology & soils	-4	-2	-2	-4	-2	-3	-2	-2	-2	-2	-2	-2				
2		Land-use and cover	-8	-2	-2	-4	-4	-4	-4	-2	-2	-4	-2	-3				
3		Vegetation status	-8	-2	-4	-8	-4	-6	-4	-4	-2	-2	-2	-3				
4		Conservation priority	-16	-2	-2	-8	-8	-8	-4	-2	-4	-2	-2	-3				
5		Connectivity	-8	-2	-2	-8	-4	-5	-2	-2	-2	-2	-2	-2				
7		Protected and endangered plant species:	-8	-4	-4	-4	-8	-6	-2	-2	-2	-2	-2	-3				
8		Invasive alien plant species	0	0	0	0	0	0	0	0	0	0	0	0				
9		Veld fire risk	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2				
10		Cumulative impacts	-16	-2	-2	-8	-8	-8	-4	-2	-2	-2	-2	-3				
11		The "No-Go" option	-8	-2	-2	-6	-6	-5	0	0	0	0	0	0				
12	Heritage	Lithic occurrences	-4	-2	-2	-2	-2	-3	-2	-2	-2	-2	-2	-2				
		Graves present outside the proposed development footprint	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2	-2				
14	Palaeontology	Palaeontological significance (low)	-2	-2	-2	-2	-2	-2	-2	-2	-1	-2	-1	-2				
15	Freshwater	Household waste ending up in the drainage line and	-8	-4	-2	-8	-8	-6	-2	-2	-2	-4	-2	-3				
16		Trampling and over grazing	-8	-4	-2	-8	-4	-5	-4	-2	-2	-2	-2	-3				
17	Soil	On site erosion due to improper management of stormwater during construction. Exposed platforms and trenches excavated for any pipeline are susceptible to erosion during the construction phase.	-8	-2	-2	-8	-8	-6	-4	-2	-2	-4	-2	-3				
18		Erosion and safety hazards associated with excavated pipelines which are not backfilled.	-8	-2	-4	-8	-4	-6	-2	-1	-2	-8	-2	-3				
19	Watercourse	Sedimentation of drainage line due to the uncontrolled stormwater runoff naturally flowing towards the drainage line.	-2	-2	-8	-16	-4	-7	-1	-2	-2	-8	-2	-3				
20	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	-4	-2	-3				
21		Temporary increase in waste and litter contaminating the receiving environment (including the Gariep Canal)	-8	-4	-2	-4	-4	-5	-4	-2	-2	-2	-4	-3				
22	Socio-economic	Creation of short-term employment opportunities during the construction phase.	8	2	2	4	2	4	8	2	2	4	2	4				
23	Dust	Dust will be generated during the construction of the proposed development which may impact drivers and commuters.	-8	-4	-2	-4	-2	-4	-2	-2	-2	-2	-2	-2				
24	Visual	Site may be not aesthetic amid natural background.	-4	-2	-4	-4	-2	-4	-4	-2	-2	-2	-4	-3				
25	Noise	Noise will be generated during the construction phase.	-8	-2	-2	-4	-4	-4	-4	-2	-2	-2	-4	-3				
26	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	-8	-4	-4				
OPERATION PHASE																		
27	Water supply	Increased pressure on water source for water supply.	-8	-4	-1	-8	-8	-6	-4	-4	-1	-4	-4	-4				
28	Sewage management	Increased production of sewage which requires effective management	-16	-2	-8	-16	-4	-10	-8	-2	-2	-4	-2	-4				
29	Solid waste management	Increased pressure on municipal waste removal services and illegal dumping of waste	-16	-2	-8	-16	-4	-10	-8	-2	-2	-4	-2	-4				
DECOMMISSIONING AND CLOSURE PHASES																		
30	Waste	Demolition of infrastructure resulting in waste accumulation on-site and surrounding area.	-16	-2	-4	-8	-4	-7	-4	-1	-2	-2	-4	-3				
31	Soil and water	Exposed soil becoming prone to erosion and sedimentation of the drainage line.	-8	-2	-8	-8	-4	-6	-2	-1	-2	-4	-4	-3				