

Kalabasfontein Project Impact Significance Ratings-Geology and Soils

IMPACT DESCRIPTION		PRE - MITIGATION							POST - MITIGATION							IMPACT PRIORITISATION						
Impact	Alternative	Phase	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre-mitigation ER	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Post-mitigation	Confidence	Public response	Cumulative Impact	Irreplaceable loss	Priority Factor	Final score
Loss/ Disturbance of Topsoil (including contamination, erosion and compaction)	Alternative 3	Construction	-1	2	4	4	3	5	-16,25	-1	2	4	3	3	5	-15	Medium	1	1	1	1,00	-15,00
Depletion of a mineral resource	Alternative 3	Construction	-1	3	5	4	3	5	-18,75	-1	2	5	3	3	4	-13	Medium	1	1	1	1,00	-13,00
Loss/ Disturbance of Topsoil (including contamination, erosion and compaction)	Alternative 3	Operation	-1	2	5	4	4	5	-18,75	-1	2	5	3	4	4	-14	Medium	1	1	1	1,00	-14,00
Depletion of a mineral resource	Alternative 3	Operation	-1	4	5	3	5	4	-17	-1	3	5	3	5	4	-16	Medium	1	1	1	1,00	-16,00
Loss/ Disturbance of Topsoil (including contamination, erosion and compaction)	Alternative 3	Decommissioning	-1	2	5	4	3	5	-17,5	-1	2	5	3	3	4	-13	Medium	1	1	1	1,00	-13,00
Depletion of a mineral resource	Alternative 3	Decommissioning	-1	2	5	4	3	5	-17,5	-1	2	5	3	3	4	-13	Medium	1	1	1	1,00	-13,00
Potential Risk of subsidence	Alternative 3	Construction	-1	2	4	2	3	3	-8,25	-1	2	4	1	2	2	-4,5	Medium	1	1	1	1,00	-4,50
Potential Risk of subsidence	Alternative 3	Operation	-1	2	4	2	3	3	-8,25	-1	2	4	1	2	2	-4,5	Medium	1	1	1	1,00	-4,50
Potential Risk of subsidence	Alternative 3	Decommissioning	-1	2	4	2	3	3	-8,25	-1	2	4	1	2	2	-4,5	Medium	1	1	1	1,00	-4,50
Loss/ Disturbance of Topsoil (including contamination, erosion and compaction)	Alternative 2	Construction	-1	2	5	4	3	5	-17,5	-1	2	4	3	3	5	-15	Medium	1	1	1	1,00	-15,00
Depletion of a mineral resource	Alternative 2	Construction	-1	2	5	4	3	5	-17,5	-1	2	5	3	3	4	-13	Medium	1	1	1	1,00	-13,00
Loss/ Disturbance of Topsoil (including contamination, erosion and compaction)	Alternative 2	Operation	-1	2	5	4	4	5	-18,75	-1	2	5	3	4	4	-14	Medium	1	1	1	1,00	-14,00
Depletion of a mineral resource	Alternative 2	Operation	-1	4	5	4	5	5	-22,5	-1	4	5	4	5	5	-22,5	Medium	1	1	1	1,00	-22,50
Loss/ Disturbance of Topsoil (including contamination, erosion and compaction)	Alternative 2	Decommissioning	-1	2	5	4	3	5	-17,5	-1	2	5	3	3	4	-13	Medium	1	1	1	1,00	-13,00
Depletion of a mineral resource	Alternative 2	Decommissioning	-1	2	5	4	3	5	-17,5	-1	2	5	3	3	4	-13	Medium	1	1	1	1,00	-13,00
Potential Risk of subsidence	Alternative 2	Construction	-1	2	4	3	4	4	-13	-1	2	4	2	3	3	-8,25	Medium	1	1	1	1,00	-8,25
Potential Risk of subsidence	Alternative 2	Operation	-1	2	4	3	4	4	-13	-1	2	4	2	3	3	-8,25	Medium	1	1	1	1,00	-8,25
Potential Risk of subsidence	Alternative 2	Decommissioning	-1	2	4	3	4	4	-13	-1	2	4	2	3	3	-8,25	Medium	1	1	1	1,00	-8,25
Loss/ Disturbance of Topsoil (including contamination, erosion and compaction)	Alternative 1	Construction	-1	1	1	1	1	1	0	-1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Depletion of a mineral resource	Alternative 1	Construction	-1	1	1	1	1	1	0	-1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Loss/ Disturbance of Topsoil (including contamination, erosion and compaction)	Alternative 1	Operation	-1	1	1	1	1	1	0	-1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Depletion of a mineral resource	Alternative 1	Operation	-1	1	1	1	1	1	0	-1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Loss/ Disturbance of Topsoil (including contamination, erosion and compaction)	Alternative 1	Decommissioning	-1	1	1	1	1	1	0	-1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Depletion of a mineral resource	Alternative 1	Decommissioning	-1	1	1	1	1	1	0	-1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Potential Risk of subsidence	Alternative 1	Construction	-1	2	1	1	1	1	0	-1	2	4	1	1	1	-2	Medium	1	1	1	1,00	-2,00
Potential Risk of subsidence	Alternative 1	Operation	-1	2	1	1	1	1	0	-1	2	4	1	1	1	-2	Medium	1	1	1	1,00	-2,00
Potential Risk of subsidence	Alternative 1	Decommissioning	-1	2	4	1	1	1	0	-1	2	4	1	1	1	-2	Medium	1	1	1	1,00	-2,00