

Identifier	Impact	Alternative	Phase	Pre-Mitigation					Post Mitigation					Priority Factor Criteria								
				Nature	Extent	Duration	Magnitude	Reversibility	Probability	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre-mitigation ER	Post-mitigation ER	Confidence	Cumulative impact	Irreplaceable loss	Priority Factor	Final score
1	Soils and Agriculture: Degradation and/or loss of soil resources - Production Plant	Alternative 1	Construction	-1	4	4	4	4	5	-20	-1	3	3	3	3	4	-12	Medium	1	2	1.50	-18
2	Soils and Agriculture: Degradation and/or loss of soil resources - Production Plant	Alternative 1	Construction	-1	4	4	3	4	5	-18.75	-1	3	3	3	3	4	-12	Medium	1	2	1.50	-18
3	Soils and Agriculture: Degradation and/or loss of soil resources - TSF & magazine	Alternative 1	Construction	-1	4	4	4	4	5	-20	-1	3	3	3	3	4	-12	Medium	1	2	1.50	-18
4	Soils and Agriculture: Degradation and/or loss of soil resources - TSF & magazine	Alternative 1	Construction	-1	4	3	3	3	4	-13	-1	3	3	2	3	3	-8.25	Medium	1	2	1.50	-12.375
5	Soils and Agriculture: Degradation and/or loss of soil resources	Alternative 1	Construction	-1	4	5	3	4	4	-16	-1	3	3	3	3	3	-9	Medium	1	2	1.50	-13.5
6	Soils and Agriculture: Degradation and/or loss of soil resources	Alternative 1	Operation	-1	3	4	3	3	4	-13	-1	3	3	2	3	3	-8.25	Medium	1	2	1.50	-12.375
7	Soils and Agriculture: Degradation and/or loss of soil resources	Alternative 1	Operation	-1	3	3	3	4	4	-13	-1	3	3	2	3	3	-8.25	Medium	1	2	1.50	-12.375
8	Soils and Agriculture: Degradation and/or loss of soil resources	Alternative 1	Decommissioning	-1	3	3	3	3	4	-12	-1	3	3	2	3	3	-8.25	Medium	1	2	1.50	-12.375
9	Soils and Agriculture: Degradation and/or loss of soil resources	Alternative 1	Rehab and closure	-1	3	3	3	3	4	-12	-1	3	3	2	3	3	-8.25	Medium	1	2	1.50	-12.375
10	Freshwater Ecology: Continuation of TSF	Alternative 1	Construction	-1	2	2	3	2	3	-6.75	-1	2	1	2	2	2	-3.5	Medium	2	2	1.50	-5.25
11	Freshwater Ecology: Construction of Pipelines and Powerlines	Alternative 1	Construction	-1	2	2	2	2	2	-4	-1	2	1	1	2	2	-3	Medium	2	2	1.33	-4
12	Freshwater Ecology: Continuation of TSF	Alternative 1	Operation	-1	2	4	3	2	3	-8.25	-1	2	4	2	2	2	-5	Medium	2	2	1.50	-7.5
13	Freshwater Ecology: Operation of Pipelines and Powerlines	Alternative 1	Operation	-1	2	4	2	2	2	-5	-1	2	4	2	1	2	-4.5	Medium	2	2	1.33	-6
14	Freshwater Ecology: Reclamation of TSF	Alternative 1	Decommissioning	-1	2	2	3	2	3	-6.75	-1	2	1	2	2	2	-3.5	Medium	2	2	1.50	-5.25
15	Freshwater Ecology: Reclamation of Pipelines and Powerlines	Alternative 1	Decommissioning	-1	2	2	2	2	2	-4	-1	2	1	1	2	2	-3	Medium	2	2	1.33	-4
16	Terrestrial Ecology: Temporary disturbance of wildlife due to increased human presence and possible use of machinery and/or vehicles.	Alternative 1	Planning	-1	3	3	3	3	3	-9	-1	2	2	2	2	2	-4	High	1	2	1.33	-5.33333333
17	Terrestrial Ecology: Destruction, further loss and fragmentation of the vegetation community	Alternative 1	Construction	-1	4	5	5	5	5	-23.75	-1	3	4	3	3	4	-13	High	1	3	1.67	-21.66666667
18	Terrestrial Ecology: Introduction of alien species, especially plants	Alternative 1	Construction	-1	4	4	5	4	4	-17	-1	3	3	3	3	3	-9	High	1	2	1.33	-12
19	Terrestrial Ecology: Erosion due to storm water runoff and wind	Alternative 1	Construction	-1	4	4	4	4	4	-16	-1	3	3	3	4	3	-9.75	High	1	2	1.33	-13
20	Terrestrial Ecology: Displacement of faunal community due to habitat loss, direct mortalities and disturbance (road collisions, noise, light, dust, rock chips, bird Power line collisions, vibration and poaching).	Alternative 1	Construction	-1	4	5	5	4	4	-18	-1	4	4	3	3	3	-10.5	High	1	2	1.33	-14
21	Terrestrial Ecology: Environmental pollution due to water/ mine drainage runoff potential leaks, discharges, pollutant and storage leaching into the surrounding environment	Alternative 1	Operation	-1	4	4	4	4	4	-16	-1	3	3	3	3	3	-9	High	1	3	3.00	1.666666667
22	Terrestrial Ecology: Destruction, further loss and fragmentation of the vegetation community	Alternative 1	Operation	-1	4	4	4	4	4	-16	-1	3	4	3	3	3	-9.75	High	1	2	2.00	1.333333333
23	Terrestrial Ecology: Introduction of alien species, especially plants	Alternative 1	Operation	-1	4	4	5	4	4	-17	-1	3	4	3	3	2	-6.5	High	1	2	2.00	1.333333333
24	Terrestrial Ecology: Erosion due to storm water runoff and wind	Alternative 1	Operation	-1	4	4	3	3	3	-10.5	-1	3	3	2	2	2	-5	High	1	2	2.00	1.333333333
25	Terrestrial Ecology: Displacement of faunal community due to habitat loss, direct mortalities and disturbance (road collisions, noise, light, dust, rock chips, vibration and poaching).	Alternative 1	Operation	-1	4	4	4	4	4	-16	-1	2	2	2	2	2	-4	High	1	2	2.00	1.333333333
26	Terrestrial Ecology: Powerline collisions and electrocutions	Alternative 2	Operation	-1	4	5	4	4	4	-17	-1	3	5	3	3	3	-10.5	High	1	3	2.00	1.5
27	Terrestrial Ecology: Environmental pollution due to water/ mine drainage runoff potential leaks, discharges, pollutant and storage leaching into the surrounding environment	Alternative 1	Operation	-1	4	4	4	4	4	-16	-1	3	4	3	3	3	-9.75	Medium	1	3	2.00	1.5
28	Terrestrial Ecology: Continued encroachment of an indigenous and VU vegetation community by alien invasive plant species as well as erosion due to disturbed soils	Alternative 1	Decommissioning	-1	4	4	4	4	4	-16	-1	3	4	3	3	3	-9.75	Medium	1	2	1.00	1.166666667
29	Terrestrial Ecology: Continued displacement and fragmentation of the faunal community due to ongoing anthropogenic disturbances (noise, dust and vibrations) and habitat degradation/loss (litter, road mortalities and/or poaching).	Alternative 2	Decommissioning	-1	4	3	3	3	3	-9.75	-1	3	3	3	3	3	-9	Medium	1	2	1.00	1.166666667
30	Hydrogeology: Changes to Hillslope Hydrology	Alternative 1	Construction	-1	3	2	2	2	2	-4.5	-1	3	2	2	2	2	-4.5	Medium	1	2	1.33	-5.985
31	Hydrogeology: Changes to Hillslope Hydrology	Alternative 1	Operation	-1	3	4	2	2	2	-5.5	-1	3	4	2	2	2	-5.5	Medium	1	2	1.33	-7.315
32	Hydrogeology: Changes to Hillslope Hydrology	Alternative 1	Decommissioning	-1	3	2	2	2	2	-4.5	-1	3	2	2	2	2	-4.5	Medium	1	2	1.33	-5.985
33	Hydrogeology: Changes to Hillslope Hydrology	Alternative 1	Rehab and closure	-1	3	2	1	1	1	-1.75	-1	3	2	1	1	1	-1.75	Medium	1	2	1.33	-2.3275
34	Heritage: Impact on heritage resources	Alternative 1	Construction	-1	1	2	1	3	2	-3.5	-1	1	2	1	2	1	-1.5	High	1	1	1.00	-1.5
35	Heritage: Impact on palaeontology	Alternative 1	Construction	-1	1	2	1	3	2	-3.5	-1	1	2	1	2	1	-1.5	High	1	1	1.00	-1.5
36	Hydrology: Erosion of Soils	Alternative 1	Construction	-1	3	4	2	2	4	-11	-1	1	2	2	2	3	-5.25	Medium	2	1	1.13	-5.90625
37	Hydrology: Erosion of Soils	Alternative 1	Operation	-1	3	4	2	2	3	-8.25	-1	1	2	2	2	3	-5.25	Medium	2	1	1.13	-5.90625
38	Hydrology: Erosion of Soils	Alternative 1	Decommissioning	-1	3	4	2	2	4	-11	-1	1	2	2	2	3	-5.25	Medium	2	1	1.13	-5.90625
39	Hydrology: Erosion of Soils	Alternative 1	Rehab and closure	-1	3	4	2	2	3	-8.25	-1	1	2	2	2	3	-5.25	Medium	2	1	1.13	-5.90625
40	Hydrology: Pollutants entering the surface water environment	Alternative 1	Construction	-1	4	4	4	2	5	-17.5	-1	4	4	3	2	2	-6.5	Medium	2	1	1.13	-7.3125
41	Hydrology: Pollutants entering the surface water environment	Alternative 1	Operation	-1	4	4	5	3	5	-20	-1	4	4	5	3	2	-8	Medium	2	2	1.25	-10
42	Hydrology: Pollutants entering the surface water environment	Alternative 1	Decommissioning	-1	4	4	4	2	5	-17.5	-1	4	4	3	2	2	-6.5	Medium	2	1	1.13	-7.3125
43	Hydrology: Pollutants entering the surface water environment	Alternative 1	Rehab and closure	-1	4	4	3	2	4	-13	-1	4	4	3	2	2	-6.5	Medium	2	1	1.13	-7.3125
44	Hydrology: Flood potential	Alternative 1	Construction	-1	2	1	5	3	2	-5.5	-1	2	1	5	3	1	-2.75	Low	2	1	1.13	-3.09375
45	Hydrology: Flood potential	Alternative 1	Operation	-1	2	1	5	3	2	-5.5	-1	2	1	5	3	1	-2.75	Low	2	1	1.13	-3.09375
46	Hydrology: Flood potential	Alternative 1	Decommissioning	-1	2	1	5	3	2	-5.5	-1	2	1	5	3	1	-2.75	Low	2	1	1.13	-3.09375
47	Hydrology: Flood potential	Alternative 1	Rehab and closure	-1	2	1	5	3	2	-5.5	-1	2	1	5	3	1	-2.75	Low	2	1	1.13	-3.09375
48	Hydrology: Decrease in runoff	Alternative 1	Construction	-1	4	4	2	4	5	-17.5	-1	3	4	2	4	5	-16.25	Low	2	1	1.13	-18.28125
49	Hydrology: Decrease in runoff	Alternative 1	Operation	-1	4	4	2	4	5	-17.5	-1	3	4	2	4	5	-16.25	Low	2	1	1.13	-18.28125
50	Hydrology: Decrease in runoff	Alternative 1	Decommissioning	-1	4	4	2	4	5	-17.5	-1	3	4	2	4	5	-16.25	Low	2	1	1.13	-18.28125
51	Hydrology: Decrease in runoff	Alternative 1	Rehab and closure	-1	3	4	1	4	5	-15	-1	3	4	1	4	5	-15	Low	2	1	1.13	-16.875
52	Air Quality: Impact of Pollutant Concentrations on Human Health	Alternative 1	Construction	-1	2	2	3	1	3	-6	-1	1	2	2	1	2	-3	Medium	3	1	1.25	-3.75
53	Air Quality: Impact of Nuisance Dustfall Rates on Amenities	Alternative 1	Construction	-1	2	2	2	1	2	-3.5	-1	1	2	1	1	1	-1.25	Medium	2	1	1.13	-1.40625
54	Air Quality: Impact of Dustfall Rates and Pollutant Concentrations on Vegetation	Alternative 1	Construction	-1	2	2	2	1	2	-3.5	-1	1	2	1	1	1	-1.25	Medium	2	1	1.13	-1.40625
55	Air Quality: Impact of Pollutant Concentrations on Human Health	Alternative 1	Operation	-1	4	4	4	1	3	-9.75	-1	3	4	3	1	3	-8.25	Medium	3	1	1.25	-10.3125
56	Air Quality: Impact of Nuisance Dustfall Rates on Amenities	Alternative 1	Operation	-1	3	4	3	1	3	-8.25	-1	3	4	2	1	3	-7.5	Medium	2	1	1.13	-8.4375
57	Air Quality: Impact of Dustfall Rates and Pollutant Concentrations on Vegetation	Alternative 1	Operation	-1	3	4	3	2	3	-9	-1	3	4	2	2	3	-8.25	Medium	2	2	1.25	-10.3125
58	Air Quality: Impact of Pollutant Concentrations on Human Health	Alternative 1	Rehab and closure	-1	1	2	1	1	1	-1.25	-1	1	2	1	1	1	-1.25	Medium	1	1	1.00	-1.25
59	Air Quality: Impact of Nuisance Dustfall Rates on Amenities	Alternative 1	Rehab and closure	-1	1	2	1	1	1	-1.25	-1	1	2	1	1	1	-1.25	Medium	1	1	1.00	-1.25
60	Air Quality: Impact of Dustfall Rates and Pollutant Concentrations on Vegetation	Alternative 1	Rehab and closure	-1	1	2	1	1	1	-1.25	-1	1	2	1	1	1	-1.25	Medium	1	1	1.00	-1.25
61	Geohydrology: Reduction in groundwater levels	Alternative 2	Operation	-1	3	3	2	2	3	-7.5	-1	2	2	1	2	3	-5.25					