

CURRENT MINING REHABILITATION COSTS

ITEM	QUANTITY	UNIT	RATE	AMOUNT	COMMENT
SITE 1					
				REHABILITATION	
SCARIFY	0.13	ha	R10 841.27	R1 426.71	Rip haul road
BACKFILL	4350.00	m³	R18.77	R81 649.50	Backfill open void with surround excavated material
				DEMOLITION	
CONCRETE - Reservoir	0.00	No.	R25 000.00	R0.00	Demolition of concrete structure and disposing of material in opencast pit
				R83 076.21	
SITE 2					
				REHABILITATION	
TOPSOIL REPLACEMENT	21130.00	m³	R78.66	R1 662 085.80	Fine material covered by coarse material to be placed on side slopes. Side slopes are to be reshaped to the original position.
SCARIFY	2.73	ha	R10 841.27	R29 631.36	
BACKFILL	30275.00	m³	R18.77	R568 261.75	Backfill open void with surrounding coarse material
EARTHWORKS	41730.00	m³	R46.40	R1 936 272.00	Use 21130 m³ material for topsoil replacement and slope the rest of the material to create a free-draining surface.
CONTOUR BERMS	3712.00	m	R25.00	R92 800.00	Contours berms to be placed on topsoiled areas
				DEMOLITION	
CONCRETE - Reservoir	2.00	No.	R25 000.00	R50 000.00	Remove and disposed of concrete in opencast pits
CONCRETE - Platforms	36.00	m³	R965.08	R34 742.88	Remove and disposed of concrete in opencast pits
CONCRETE - Plant 1 Base	25.00	m³	R1 589.62	R39 740.50	Remove and disposed of concrete in opencast pits
CONCRETE - Plant 2 Base	7.00	m³	R1 589.62	R11 127.34	Remove and disposed of concrete in opencast pits
BRICK - Double Brick wall	13.00	m²	R374.75	R4 871.75	Remove and disposed of Plant 2 brick wall
				R4 424 661.63	
SITE 3					
				REHABILITATION	
SCARIFY					No earthworks or shaping required
EARTHWORKS					
				DEMOLITION	
SINGLE STOREY BRICK BUILDING	117.00	m²	R374.75	R43 845.75	Demolish and dispose of security building material in opencast pits
				R43 845.75	
SITE 4					
				REHABILITATION	
STORMWATER DIVERSION BERM	5789.00	m²	R12.50	R72 362.50	Reshape stormwater diversion berm and excavated ditch
				DEMOLITION	
NO DEMOLITION REQUIRED					
				R72 362.50	

SITE 5

SCARIFY	0.13	m ²	R10 841.27
BACKFILL	29000.00	m ³	R18.77

REHABILITATION

R1 355.16	Rip haul road
R544 330.00	Backfill open voids with surrounding coarse material

R545 685.16**SITE 6**

SCARIFY	0.15	m ²	R10 841.27
BACKFILL	12800.00	m ³	R18.77
EARTHWORKS	90000.00	m ³	R46.40
CONTAMINATION	1.00	Sum	R100 000.00

REHABILITATION

R1 660.88	
R240 256.00	Backfill open voids with stockpiled material
R4 176 000.00	
R100 000.00	Remediation of contaminated material

DEMOLITION

CONCRETE - Platforms	284.10	m ³	R965.08
CORRUGATED ROOF - Workshop	376.00	m ²	R26.31
STEEL - Roof Structure	1.00	t	R4 398.32
CONVEYOR	233.00	m	R559.15
TRANSPORT	1.00	No.	R75 000.00

DEMOLITION

R274 179.23	Demolish and discard in opencast pits
R9 892.56	Dismantling and removing of corrugated sheets
R4 398.32	Dismantling and removing of steel structure
R130 281.95	Dismantling and removing of conveyor
R75 000.00	Removal of the above items off-site

R5 011 668.94**ENTIRE SITE**

WATER QUALITY	1	No.	500000
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POST CLOSURE MONITORING

500000	Post-closure surface and groundwater monitoring (5 events over 5 years)
	Post-closure AIR QUALITY monitoring (2 events over 5 years)

R500 000.00

FUTURE MINING REHABILITATION COSTS

ITEM	QUANTITY	UNIT	RATE	AMOUNT	COMMENT
				REHABILITATION	
Slimes dam	7500.00	m³	R32.94	R247 050.00	Shaping the slimes dam to original level and backfilling excess material into the pit
				DEMOLITION	
23m² Diesel Storage Tanks	6.00	No.	R21 084.98	R126 509.88	2 x storage tanks at each section
Workshop	1.00	No.	R32 932.21	R32 932.21	Dismantling and removing new hanger off-site
Water Pipelines	6210.00	m	R10.00	R62 100.00	Abstraction from Orange River at each Section
New Hanger	1.00	No.	R100 000.00	R100 000.00	Dismantling and removing new hanger off-site
Labour Accomodation	40.00	No.	R20 000.00	R800 000.00	Shipping containers converted into dormitories for 150 staff members to be removed from site
				<u>R1 368 592.09</u>	