

SA CONSOLIDATED 4E AND 6E PGM MINERAL RESOURCES AND MINERAL RESERVES STATEMENT

Classified PGM Mineral Resources and Mineral Reserves as at 31 December 2018

OPERATIONS	Mineral Resources					2017 4E PGM (Moz)
	2018					
	Tonnes (Mt)	4E Grade (g/t)	6E Grade (g/t)	4E PGM (Moz)	6E PGM (Moz)	
Underground						
RSA operations: Kroondal (50% attributable)						
Measured	38.8	3.1	3.7	3.907	4.590	3.146
Indicated	4.9	3.7	4.4	0.593	0.695	1.472
Inferred	2.5	3.0	3.6	0.234	0.285	0.261
Total	46.2	3.2	3.8	4.734	5.571	4.879
RSA operations: Rustenburg						
Measured	371.9	4.9	5.7	58.207	68.348	59.212
Indicated	123.5	5.3	6.1	21.222	24.204	21.235
Inferred	15.4	5.6	6.3	2.755	3.128	2.762
Total	510.8	5.0	5.8	82.185	95.681	83.209
Non-RSA operations: Mimosa¹ (50% attributable)						
Measured	28.4	3.7	3.9	3.367	3.570	3.570
Indicated	15.4	3.6	3.8	1.772	1.887	1.776
Inferred	4.4	3.6	3.9	0.514	0.548	0.512
Inferred (oxides)	9.0	3.5	3.6	0.998	1.033	0.981
Total	57.2	3.6	3.8	6.652	7.038	6.839
RSA operations: Blue Ridge (50% attributable)						
Measured						1.570
Indicated						0.420
Inferred						0.440
Total						2.430
Underground – total	614.1	4.7	5.5	93.571	108.290	97.357
Surface						
Surface rock dumps and tailings storage facilities						
Rustenburg (TSF)	75.5	1.1	1.2	2.610	2.936	2.818
Surface – total	75.5	1.1	1.2	2.610	2.936	2.818
PROJECTS						
Underground						
Hoedspruit (74% attributable)						
Measured						
Indicated	28.1	5.5		4.980		4.980
Inferred	4.5	5.6		0.810		0.810
Total	32.6	5.5		5.790		5.790
Zondernaam (74% attributable)						
Measured						
Indicated						
Inferred	77.4	6.4		15.900		15.900
Total	77.4	6.4		15.900		15.900
Vygenhoek (50% attributable)						
Measured	1.4	5.1		0.230		0.230
Indicated						
Inferred						
Total	1.4	5.1		0.230		0.230
Blue Ridge (50% attributable)						
Measured	14.8	3.3		1.570		
Indicated	4.1	3.2		0.420		
Inferred	4.2	3.3		0.440		
Total	23.1	3.3		2.430		0.000
Project – total	134.5	5.6		24.350		21.920
Grand total – underground, surface and projects	824.1	4.5		120.531		122.095

¹ Non-managed

OPERATIONS	Mineral Reserves					2017 4E PGM (Moz)
	Tonnes (Mt)	4E Grade (g/t)	6E Grade (g/t)	4E PGM (Moz)	6E PGM (Moz)	
Underground						
RSA operations: Kroondal (50% attributable)						
Proved	18.4	2.6	3.0	1.536	1.792	1.243
Probable						0.561
Total	18.4	2.6	3.0	1.536	1.792	1.804
RSA operations: Rustenburg						
Proved	110.9	3.8	4.5	13.516	15.979	14.550
Probable	6.9	4.2	4.9	0.945	1.085	1.156
Total	117.8	3.8	4.5	14.461	17.064	15.706
Non-RSA operations: Mimosa (50% attributable)						
Proved	10.9	3.5	3.7	1.234	1.309	1.423
Probable	5.6	3.4	3.6	0.607	0.646	0.607
Total	16.5	3.5	3.7	1.841	1.955	2.030
Underground – total	152.7	3.6	4.2	17.838	20.811	19.540
Surface						
Surface rock dumps and tailings storage facilities						
Rustenburg (TSF)	75.5	1.1	1.2	2.610	2.936	2.818
Surface – total	75.5	1.1	1.2	2.610	2.936	2.818
Grand total – underground and surface	228.2	2.8	3.2	20.448	23.747	22.358



Waterval UG2 Concentrator