

HARMONY MINERAL RESOURCES AS AT 30 JUNE 2016

GOLD

SA UNDERGROUND OPERATIONS

Tshepong
Phakisa
Bambanani
Unisel
Doornkop South Reef
Doornkop Main Reef
TOTAL
Kusasalethu
Target 1
Target 3
Masimong
Joel
TOTAL SA UNDERGROUND OPERATIONS

Measured				Indicated				Inferred				Total Mineral Resource			
tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)
16 769 724	11.35	190 339	6 120	3 862 958	9.84	38 020	1 222	4 302 835	9.10	39 155	1 259	24 935 518	10.73	267 513	8 601
7 895 294	10.72	84 628	2 721	11 175 470	11.68	130 541	4 197	23 135 926	10.42	240 971	7 747	42 206 689	10.81	456 140	14 665
1 076 843	15.10	16 264	523	-	-	-	-	-	-	-	-	1 076 843	15.10	16 264	523
1 341 093	6.65	8 914	287	1 820 738	6.67	12 137	390	-	-	-	-	3 161 832	6.66	21 051	677
2 647 466	7.75	20 518	660	3 815 882	8.10	30 896	993	12 216 790	7.17	87 585	2 816	18 680 137	7.44	138 999	4 469
80 896	5.38	435	14	45 963	5.51	253	8	16 953	5.32	90	3	143 812	5.41	778	25
2 728 361	7.68	20 954	674	3 861 845	8.07	31 149	1 001	12 233 743	7.17	87 675	2 819	18 823 949	7.43	139 778	4 494
3 806 866	12.69	48 299	1 553	17 787 834	10.49	186 661	6 001	1 473 919	10.99	16 203	521	23 068 619	10.89	251 163	8 075
6 598 335	8.34	55 000	1 768	9 509 645	8.00	76 040	2 445	3 048 983	6.46	19 703	633	19 156 963	7.87	150 742	4 846
7 027 210	9.10	63 965	2 057	4 655 267	7.10	33 059	1 063	-	-	-	-	11 682 476	8.31	97 025	3 119
2 379 925	6.40	15 228	490	880 949	4.59	4 046	130	455 940	6.26	2 855	92	3 716 815	5.95	22 129	711
5 651 980	7.07	39 951	1 284	7 594 106	5.72	43 406	1 396	1 004 170	5.47	5 491	177	14 250 256	6.23	88 847	2 856
55 275 630	9.83	543 541	17 475	61 148 812	9.08	555 059	17 846	45 655 516	9.03	412 052	13 248	162 079 958	9.32	1 510 651	48 569

SA SURFACE SOURCES

Kalgold
Phoenix
St Helena
Central Plant
Other : Waste Rock Dump
Tailings
TOTAL
Kalgold Tailings Dam
TOTAL SA Surface Sources(Incl Kalgold)
TOTAL SA Surface Sources (Excl Kalgold)
TOTAL SA OPS (U/g & Surface) Incl Kalgold

7 674 742	0.82	6 320	203	17 315 528	0.95	16 418	528	13 358 534	1.08	14 439	464	38 348 805	0.97	37 178	1 195
79 833 211	0.28	22 148	712	-	-	-	-	-	-	-	-	79 833 211	0.28	22 148	712
258 683 218	0.27	69 373	2 230	-	-	-	-	-	-	-	-	258 683 218	0.27	69 373	2 230
-	-	-	-	66 373 324	0.26	17 135	551	-	-	-	-	66 373 324	0.26	17 135	551
-	-	-	-	3 940 532	0.51	2 007	65	22 345 474	0.41	9 056	291	26 286 006	0.42	11 063	356
-	-	-	-	576 419 074	0.22	128 227	4 123	15 459 021	0.19	2 937	94	591 878 095	0.22	131 164	4 217
-	-	-	-	580 359 606	0.22	130 234	4 187	37 804 496	0.32	11 994	386	618 164 101	0.23	142 227	4 573
-	-	-	-	-	-	-	-	23 802 213	0.26	6 263	201	23 802 213	0.26	6 263	201
346 191 172	0.28	97 841	3 146	664 048 458	0.25	163 787	5 266	74 965 243	0.44	32 695	1 051	1 085 204 872	0.27	294 323	9 463
338 516 429	0.27	91 521	2 942	646 732 930	0.23	147 369	4 738	37 804 496	0.32	11 994	386	1 023 053 855	0.25	250 883	8 066
401 466 802		641 382	20 621	725 197 270		718 845	23 111	120 620 759		444 748	14 299	1 247 284 831		1 804 974	58 031

PAPUA NEW GUINEA

Hidden Valley/Kaveroi ¹	1 275 000	1.09	1 390	45	34 956 532	1.60	55 849	1 796	1 037 629	1.24	1 282	41	37 269 161	1.57	58 520	1 881
Hamata ¹	65 000	1.06	69	2	1 465 857	2.16	3 170	102	94 016	1.79	168	5	1 624 873	2.10	3 408	110
Wafi ¹	-	-	-	-	56 730 743	1.72	97 853	3 146	11 341 743	1.30	14 774	475	68 072 486	1.65	112 626	3 621
Golpu ¹	-	-	-	-	344 005 825	0.71	245 884	7 905	67 893 410	0.63	42 832	1 377	411 899 235	0.70	288 717	9 282
Nambonga ¹	-	-	-	-	-	-	-	-	19 900 000	0.79	15 723	505	19 900 000	0.79	15 723	505
Kili Teke	-	-	-	-	-	-	-	-	221 513 920	0.25	54 469	1 751	221 513 920	0.25	54 469	1 751
TOTAL PAPUA NEW GUINEA	1 340 000	1.09	1 459	47	437 158 956	0.92	402 756	12 949	321 780 719	0.40	129 248	4 155	760 279 674	0.70	533 462	17 151

TOTAL HARMONY MINERAL RESERVES (excl gold equivalents)

402 806 802	642 840	20 668	1 162 356 226	1 121 601	36 060	442 401 477	573 995	18 454	2 007 564 505	2 338 437	75 182
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OTHER METALS

PAPUA NEW GUINEA

	tonnes	g/t	silver (kg)	silver (000oz)	tonnes	g/t	silver (kg)	silver (000oz)	tonnes	g/t	silver (kg)	silver (000oz)	tonnes	g/t	silver (kg)	silver (000oz)
Hidden Valley ¹	1 275 000	21.52	27 438	882	34 956 532	30.72	1 073 895	34 526	1 037 629	31.69	32 884	1 057	37 269 161	30.43	1 134 217	36 466
Golpu ¹	-	-	-	-	344 005 825	1.29	443 136	14 247	67 893 410	1.06	72 214	2 322	411 899 235	1.25	515 350	16 569
Nambonga ¹	-	-	-	-	-	-	-	-	19 900 000	2.87	57 113	1 836	19 900 000	2.87	57 113	1 836
TOTAL	1 275 000	21.52	27 438	882	378 962 356	4.00	1 517 031	48 774	88 831 039	1.83	162 211	5 215	469 068 395	3.64	1 706 680	54 871

COPPER

	tonnes	%	Cu (000t)	Cu (Mlb)	tonnes	%	Cu (000t)	Cu (Mlb)	tonnes	%	Cu (000t)	Cu (Mlb)	tonnes	%	Cu (000t)	Cu (Mlb)
Golpu ¹	-	-	-	-	344 005 825	1.09	3 734	8 232	67 893 410	0.85	577	1 273	411 899 235	1.05	4 311	9 505
Nambonga ¹	-	-	-	-	-	-	-	-	19 900 000	0.21	42	92	19 900 000	0.21	42	92
Kili Teke	-	-	-	-	-	-	-	-	221 513 920	0.35	782	1 723	221 513 920	0.35	782	1 723
TOTAL	-	-	-	-	344 005 825	1.09	3 734	8 232	309 307 330	0.45	1 401	3 088	653 313 155	0.79	5 135	11 320

MOLYBDENUM

	tonnes	ppm	Mo (000t)	Mo (Mlb)	tonnes	ppm	Mo (000t)	Mo (Mlb)	tonnes	ppm	Mo (000t)	Mo (Mlb)	tonnes	ppm	Mo (000t)	Mo (Mlb)
Golpu ¹	-	-	-	-	344 005 825	94	32	71	67 893 410	72	5	11	411 899 235	90	37	82
Kili Teke	-	-	-	-	-	-	-	-	221 513 920	170	38	83	221 513 920	170	38	83
TOTAL	-	-	-	-	344 005 825	94	32	71	289 407 330	147	42	93	633 413 155	118	75	165

GOLD EQUIVALENTS

SILVER: as gold equivalents

	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)
Hidden Valley ¹	1 275 000	-	352	11	34 956 532	-	14 004	450	1 037 629	-	429	14	37 269 161	-	14 785	475
TOTAL	1 275 000	-	352	11	34 956 532	-	14 004	450	1 037 629	-	429	14	37 269 161	-	14 785	475

COPPER: as gold equivalents

	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)
Golpu ¹	-	-	-	-	344 005 825	-	667 750	21 469	67 893 410	-	103 230	3 319	411 899 235	-	770 980	24 788
Nambonga ¹	-	-	-	-	-	-	-	-	19 900 000	-	7 473	240	19 900 000	-	7 473	240
Kili Teke	-	-	-	-	-	-	-	-	221 513 920	-	139 773	4 494	221 513 920	-	139 773	4 494
TOTAL	-	-	-	-	344 005 825	-	667 750	21 469	309 307 330	-	250 476	8 053	653 313 155	-	918 226	29 522

Total silver and copper as gold equivalents

1 275 000	352	11	378 962 356	681 754	21 919	310 344 959	250 905	8 067	690 582 315	933 011	29 997
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Total PNG (including gold equivalents)

1 340 000	1 811	58	437 158 956	1 084 510	34 868	321 780 719	380 152	12 222	760 279 674	1 466 473	47 148
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TOTAL HARMONY MINERAL RESOURCES (incl gold equivalents)

tonnes	gold equivalents (kg)	gold equivalents (000oz)	tonnes	gold equivalents (kg)	gold equivalents (000oz)	tonnes	gold equivalents (kg)	gold equivalents (000oz)	tonnes	gold equivalents (kg)	gold equivalents (000oz)
402 806 802	643 192	20 679	1 162 356 226	1 803 355	57 979	442 401 477	824 900	26 521	2 007 564 505	3 271 447	105 179

URANIUM

SOUTH AFRICA

	Measured 2016				Indicated 2016				Inferred 2016				Total Mineral Resource 2016			
	tonnes	kg/t	U3O8 (kg)	U3O8 (Mlb)	tonnes	kg/t	U3O8 (kg)	U3O8 (Mlb)	tonnes	kg/t	U3O8 (kg)	U3O8 (Mlb)	tonnes	kg/t	U3O8 (kg)	U3O8 (Mlb)
Masimong	-	-	-	-	2 916 891	0.20	578 458	1	798 508	0.14	114 135	0	3 715 399	0.19	692 593	2
Tshepong	5 196 488	0.20	1 032 578	2	12 344 624	0.23	2 781 205	6	7 376 834	0.13	980 203	2	24 917 946	0.19	4 793 987	11
Phakisa	7 895 294	0.20	1 571 246	3	11 175 470	0.20	2 238 434	5	23 135 926	0.11	2 494 495	5	42 206 690	0.15	6 304 175	14
Total Underground	13 091 782	0.20	2 603 824	6	26 436 985	0.21	5 598 097	12	31 311 268	0.11	3 588 833	8	70 840 035	0.17	11 790 755	26
Free State Surface Sources	-	-	-	-	176 685 720	0.10	17 584 361	39	-	-	-	-	176 685 720	0.10	17 584 361	39
TOTAL SA OPS (U/G & SURFACE)	13 091 782	0.20	2 603 824	6	203 122 705	0.11	23 182 458	51	31 311 268	0.11	3 588 833	8	247 525 755	0.12	29 375 116	65

¹ Represents Harmony's equity portion of 50%

HARMONY MINERAL RESERVES AS AT 30 JUNE 2016

GOLD

SA UNDERGROUND OPERATIONS

Tshepong
Phakisa
Bambanani
Unisel
Doornkop
Kusasaletu
Target 1
Masimong
Joel
TOTAL SA UNDERGROUND OPERATIONS

Proved				Probable				Total Mineral Reserves			
tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)
17 117 984	5.49	94 005	3 022	3 544 630	4.39	15 547	500	20 662 614	5.30	109 551	3 522
5 614 985	6.56	36 846	1 185	1 896 536	7.17	13 598	437	7 511 521	6.72	50 443	1 622
1 259 306	11.08	13 952	449	-	-	-	-	1 259 306	11.08	13 952	449
1 243 038	4.18	5 198	167	1 290 370	4.35	5 611	180	2 533 408	4.27	10 809	348
1 718 126	5.03	8 640	278	2 573 605	5.21	13 410	431	4 291 730	5.14	22 050	709
3 820 476	7.15	27 324	878	209 578	5.31	1 113	36	4 030 055	7.06	28 437	914
2 720 343	4.59	12 487	401	3 866 376	4.75	18 376	591	6 586 719	4.69	30 863	992
1 481 828	4.05	6 006	193	247 047	3.82	945	30	1 728 875	4.02	6 951	223
2 574 141	5.26	13 528	435	2 969 208	4.61	13 681	440	5 543 349	4.91	27 209	875
37 550 227	5.81	217 984	7 008	16 597 351	4.96	82 280	2 645	54 147 578	5.55	300 265	9 654

SA SURFACE SOURCES

Kalgold
Phoenix
St Helena
Central Plant
Other : Waste Rock Dump
Tailings
TOTAL
TOTAL SA Surface Sources(Incl Kalgold)

5 261 246	0.97	5 126	165	12 346 662	1.12	13 796	444	17 607 909	1.07	18 921	608
79 833 211	0.28	22 148	712	-	-	-	-	79 833 211	0.28	22 148	712
175 895 615	0.27	46 886	1 507	-	-	-	-	175 895 615	0.27	46 886	1 507
-	-	-	-	66 373 324	0.26	17 135	551	66 373 324	0.26	17 135	551
-	-	-	-	3 940 532	0.51	2 007	65	3 940 532	0.51	2 007	65
-	-	-	-	496 704 376	0.23	113 858	3 661	496 704 376	0.23	113 858	3 661
-	-	-	-	500 644 908	0.23	115 865	3 725	500 644 908	0.23	115 865	3 725
260 990 072	0.28	74 159	2 384	579 364 894	0.25	146 795	4 720	840 354 966	0.26	220 954	7 104

TOTAL SA Surface Sources (Excl Kalgold)

255 728 826	0.27	69 033	2 219	567 018 232	0.23	133 000	4 276	822 747 057	0.25	202 033	6 495
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TOTAL SA OPS (U/g & Surface) Incl Kalgold

298 540 299		292 143	9 393	595 962 245		229 076	7 365	894 502 544		521 219	16 758
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PAPUA NEW GUINEA ¹

Hidden Valley/Kaveroi
Hamata
Golpu
TOTAL PAPUA NEW GUINEA

1 275 000	1.09	1 390	45	11 467 418	1.62	18 630	599	12 742 418	1.57	20 019	644
65 000	1.06	69	2	1 002 044	2.23	2 238	72	1 067 044	2.16	2 306	74
-	-	-	-	189 567 063	0.91	171 744	5 522	189 567 063	0.91	171 744	5 522
1 340 000	1.09	1 459	47	202 036 525	0.95	192 611	6 193	203 376 525	0.95	194 070	6 239

**TOTAL HARMONY MINERAL RESERVES
(excl gold equivalents)**

299 880 299		293 602	9 440	797 998 770		421 687	13 558	1 097 879 069		715 289	22 997
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OTHER METALS

PAPUA NEW GUINEA ¹

SILVER
Hidden Valley
TOTAL

tonnes	g/t	silver (kg)	silver (000oz)	tonnes	g/t	silver (kg)	silver (000oz)	tonnes	g/t	silver (kg)	silver (000oz)
1 275 000	21.52	27 438	882	11 467 418	34.69	397 798	12 789	12 742 418	33.37	425 236	13 671
1 275 000	21.52	27 438	882	11 467 418	34.69	397 798	12 789	12 742 418	33.37	425 236	13 671

COPPER

Golpu
TOTAL

tonnes	%	Cu (000t)	Cu (Mlb)	tonnes	%	Cu (000t)	Cu (Mlb)	tonnes	%	Cu (000t)	Cu (Mlb)
-	-	-	-	189 567 063	1.26	2 390	5 269	189 567 063	1.26	2 390	5 269
-	-	-	-	189 567 063	1.26	2 390	5 269	189 567 063	1.26	2 390	5 269

GOLD EQUIVALENTS ¹

SILVER: as gold equivalents

Hidden Valley
TOTAL

tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)
1 275 000		358	12	11 467 418		5 189	167	12 742 418		5 547	178
1 275 000		358	12	11 467 418		5 189	167	12 742 418		5 547	178

COPPER: as gold equivalents

Golpu
TOTAL

tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)	tonnes	g/t	gold (kg)	gold (000oz)
-		-	-	189 567 063		427 385	13 741	189 567 063		427 385	13 741
-		-	-	189 567 063		427 385	13 741	189 567 063		427 385	13 741

Total silver and copper as gold equivalents

1 275 000		358	12	201 034 481		432 573	13 908	202 309 481		432 931	13 919
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Total PNG (including gold equivalents)

1 340 000		1 817	58	202 036 525		625 184	20 100	203 376 525		627 001	20 159
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**TOTAL HARMONY MINERAL RESERVES
(incl gold equivalents)**

tonnes		gold equivalents (kg)	gold equivalents (000oz)	tonnes		gold equivalents (kg)	gold equivalents (000oz)	tonnes		gold equivalents (kg)	gold equivalents (000oz)
299 880 299		293 960	9 451	797 998 770		854 260	27 465	1 097 879 069		1 148 220	36 916

¹ Represents Harmony's equity portion of 50%