

Mineral Resources and Ore Reserves Langer Heinrich as at 30 June 2023

Mineral Resources and Ore Reserves – Langer Heinrich



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Summary Mineral Resources¹

Location	Classification	Millions of Tonnes (Mt)	Grade U ₃ O ₈ (ppm)	Contained U ₃ O ₈ (MIb)	Grade V ₂ O ₅ (ppm)	Contained V ₂ O ₅ (MIb)
In situ -open pit	Measured	79.1	450	78.6	145	25.5
In situ -open pit	Indicated	23.5	375	19.5	120	6.3
In situ -open pit	Inferred	11.0	345	8.4	115	2.7
Total In situ	All	113.6	425	106.5	140	34.5
MG ² stockpiles	Measured	6.3	510	7.1	165	2.3
LG ³ stockpiles	Measured	20.2	325	14.5	105	4.7
Total	All	140.1	415	128.1	135	41.5

Summary Ore Reserves¹

Location	Classification	Millions of Tonnes (Mt)	Grade U ₃ O ₈ (ppm)	Contained U ₃ O ₈ (MIb)
In situ -open pit	Proved	48.3	488	52.0
In situ -open pit	Probable	10.0	464	10.2
Stockpiles	Proved	26.5	369	21.6
Total	All	84.8	448	83.8

Mineral Resources

Notes: 200ppm U₃O₈ cut-off applied to in-situ Mineral Resources – 250ppm U₃O₈ cut-off applied to stockpiles at the time of mining. Mineral Resources reported on a 100% ownership basis, of which Paladin has a 75% interest. The Measured and Indicated U₃O₈ Mineral Resources are inclusive of those Mineral Resources modified to produce the Ore Reserves (as reported above). Depleted for mining. Tonnage information has been rounded and as a result the figures may not add up to the totals quoted.

¹ Refer ASX Announcement "Langer Heinrich Mine Restart Plan Update, Mineral Resource and Ore Reserve Update" dated 4 November 2021. ². "MG" refers to medium grade. ³. "LG" refers to low grade

Ore Reserves

Notes: Ore Reserves are reported on a dry basis. Proved Ore Reserves are inclusive of ore stockpiles. 250ppm cut-off applied. Tonnage figures have been rounded and may not add up to the totals quoted. Ore Reserves reported on a 100% ownership basis, of which Paladin has a 75% interest. Vanadium does not report to Ore Reserves. 1. Refer ASX Announcement "Langer Heinrich Mine Restart Plan Update, Mineral Resource and Ore Reserve Update" dated 4 November 2021

Mineral Resources table – Canadian exploration portfolio



Mineral Resources		Mt	Grade ppm U_3O_8	MIb U_3O_8 (100% basis)	Paladin Ownership (%) ³
Canada					
Measured	Michelin ¹	17.6	965	37.6	100
	Rainbow ²	0.2	920	0.4	100
Indicated	Gear ²	0.4	770	0.6	100
	Inda ²	1.2	690	1.8	100
	Jacques Lake ¹	13.0	630	18.0	100
	Michelin ¹	20.6	980	44.6	100
	Nash ²	0.7	830	1.2	100
	Rainbow ²	0.8	860	1.4	100
Inferred	Gear ²	0.3	920	0.6	100
	Inda ²	3.3	670	4.8	100
	Jacques Lake ¹	3.6	550	4.4	100
	Michelin ¹	4.5	985	9.9	100
	Nash ²	0.5	720	0.8	100
	Rainbow ²	0.9	810	1.6	100
Total Canada		67.7	860	127.7	100

Note: Values may not add due to rounding. 1. Refer ASX Announcement dated 31 January 2018 "Correction to 30 June 2017 Annual Report" pp13-15 (reporting standard JORC 2012) 2. Refer SEDAR lodgment

(TSX:FRG) dated 8 September 2009 "Fronteer Reports Positive Preliminary Economic Assessment for Michelin Uranium Project" (reporting standard JORC 2004) ^{3.} Paladin Ownership (%)' as at 18 October 2023

Mineral Resources table – Australian exploration portfolio



Mineral Resources		Mt	Grade ppm U ₃ O ₈	MIb U₃O ₈ (100% basis)	Paladin Ownership (%)
Australia					
Measured	Valhalla ¹	16.0	820	28.9	100
Indicated	Andersons ²	1.4	1,450	4.6	100
	Bikini ³	5.8	495	6.3	100
	Duke Batman ⁴	0.5	1,370	1.6	100
	Odin⁵	8.2	555	10.0	100
	Skal ⁶	14.3	640	20.2	100
	Valhalla ¹	18.6	840	34.5	100
	Carley Bore ⁷	5.4	420	5.0	100
	Manyingee ⁸	8.4	850	15.7	100
Inferred	Andersons ²	0.1	1,640	0.4	100
	Bikini ³	6.7	490	7.3	100
	Duke Batman ⁴	0.3	1,100	0.7	100
	Honey Pot ⁹	2.6	700	4.0	100
	Mirrioola ¹⁰	2.0	560	2.5	100
	Odin⁵	5.8	590	7.6	100
	Skal ⁶	1.4	520	1.6	100
	Valhalla ¹	9.1	640	12.8	100
	Watta ¹¹	5.6	400	5.0	100
	Warwai ¹¹	0.4	360	0.3	100
	Carley Bore ⁷	17.4	280	10.6	100
	Manyingee ⁸	5.4	850	10.2	100
Total Australia		135.4	635	189.8	100

Note: Values may not add due to rounding. ¹. Refer Announcement (ASX:SMM) dated 19 October 2010 "Resource Upgrade for the Valhalla Uranium Deposit" (reporting standard JORC 2004) ². Refer ASX Announcement dated 16 April 2012 "Quarterly Activities Report for period ending 31 March 2012" (reporting standard JORC 2004) ³. Refer ASX Announcement dated 15 April 2011 "Quarterly Activities Report for period ending 31 March 2011 (reporting standard JORC 2004) ⁴. Refer ASX Announcement dated 31 August 2011 "30 June 2011 Annual Report" p29 (reporting standard JORC 2004) ⁵. Refer ASX Announcement dated 17 January 2012 "Quarterly Activities Report for period ending 31 December 2011" (reporting standard JORC 2004) ⁶. Refer ASX Announcement dated 13 July 2012 "Quarterly Activities Report for period ending 30 June 2012" (reporting standard JORC 2004) ⁷. Refer ASX Announcement (ASX:EMX) dated 12 February 2014 "Energia Delivers Significant Uranium Resource Upgrade" (reporting standard JORC 2012) ⁸. Refer ASX Announcement dated 10 December 2008 "Maiden Uranium Resource at Valhalla North Project" (reporting standard JORC 2004) ¹⁰. Mirrioola – ASX Announcement dated 15 March 2012 "Half Yearly Financial Report 31 December 2011" (reporting standard JORC 2004) ¹¹. Watta – ASX Announcement Summit Resources Ltd dated 29 January 2013 "Half Year Financial Report – 31 December 2012, (reporting standard JORC 2004); Warwai – ASX Announcement Summit Resources Ltd dated 29 January 2013 "Half Year Financial Report – 31 December 2004)."