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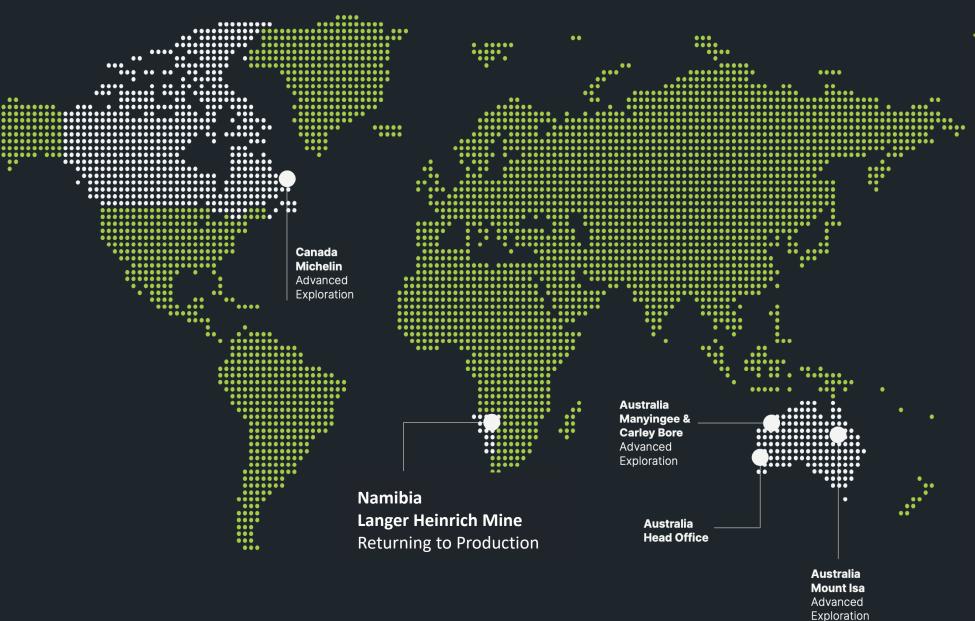
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The information in this presentation relating to the Mineral Resources and Ore Reserves for all of the Company's deposits other than Langer Heinrich, Michelin, Jacques Lake and Manyingee was prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that this information has not materially changed since it was last reported. Refer to the Mineral Resource Table slides in the Appendix of this presentation.

Competent Person's Statement

The information contained within this presentation is extracted from the "2022 Annual Report to Shareholders" released on 26 August 2022 which is available to view on paladinenergy.com.au. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original announcement and, in the case of Mineral Resources or Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not materially modified from the original market announcement.

This announcement has been authorised for release by the Board of Directors of Paladin Energy





Market Cap¹ A\$1.95B

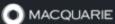
Share price¹ **A\$0.65/share**

Available Cash¹ US\$139M

> Index **ASX200**

Corporate Debt1 Nil

Research Coverage





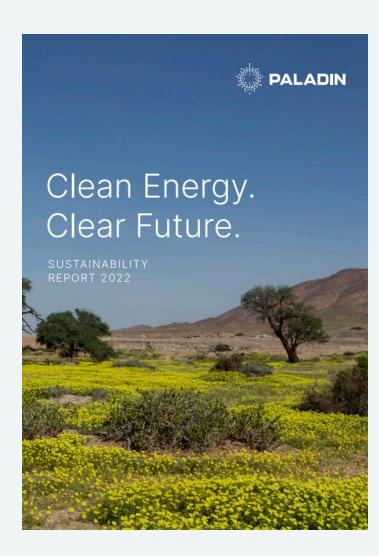
Jefferies



ShawandPartners

Paladin is committed to sustainable development





Paladin's 2022 Sustainability Report provides a roadmap for a sustainable future including details of the FY2022 ESG Performance and the Company's ESG Goals. Selected highlights and goals include:

	FY2022 ESG HIGHLIGHTS	ESG GOALS
Environment	 0 reportable environmental incidents 100% compliance with laws, regulations, licence and permit conditions 	 Set meaningful targets for Paladin's carbon footprint reduction and environmental impact, once the baseline footprint has been confirmed in operations Implement opportunities to reduce Scope 1 and Scope 2 emission levels
Social	 0 Lost Time Injuries and reportable safety incidents 100% compliance with the LHM Radiation Management Plan 0 local community grievances or complaints 	 Maximise local and regional employment opportunities wherever practical Implementation of an ISO 45001:2018 compliant HSE management system
Governance	 100% applicable permits in place Adoption and implementation of Sustainability Accounting Standards Board (SASB) framework 	 Materiality and status assessments of the Global Reporting Initiative (GRI) and Task Force on Climate- related Financial Disclosures (TCFD) reporting frameworks Compliance with reporting and requirements under the Modern Slavery Act

Clean energy. Clear future.



Returning the Langer Heinrich Mine to production

- Low risk brownfield restart
- US\$118M project fully funded and remains on track and on budget
- First production targeted for Q1 CY2024

Cornerstone offtakes secured and strong uranium market

- Offtakes secured with leading global counterparties
- Uranium remains critical to global decarbonisation
- Growing supply deficit

Balance sheet strength and financial discipline

- US\$139M¹ in available cash
- No corporate debt
- Disciplined approach to growth plans ensuring future optionality and value are delivered

Long-term growth optionality

- Significant global exploration portfolio
- Work underway to define the development pathway at the Michelin project
- Pursue optimisation opportunities at Langer Heinrich Mine





Uranium Demand: growing support for nuclear energy as part of the global decarbonisation thematic





Second largest source of global clean energy with almost zero carbon emissions¹



The only long-term viable source of low carbon emission baseload power



Recognised as a green source of energy in the EU²



Bipartisan political support in the US & IRA⁴ tax credits for clean energy

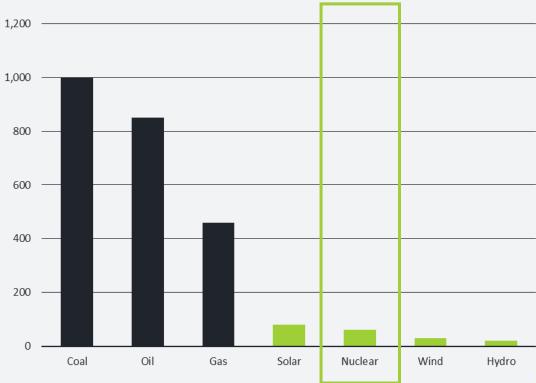


Provides nearly half of the US's clean energy³



Small Modular Reactor developments advancing globally



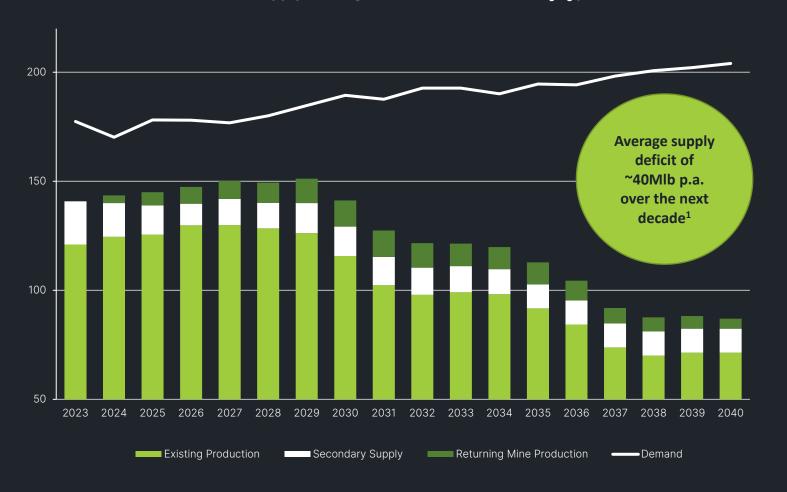


- World Nuclear Association (WNA)
- 2. EU Taxonomy Regulation
- 3. International Energy Agency (IEA)
- 4. US Inflation Reduction Act

Source: World Nuclear Association (WNA)

Uranium Supply: a growing structural deficit

Structural Supply Shortage, Western Market (Mlb U₃O₈ p.a.)





Structural supply gap

- Current primary uranium supply unable to meet current demand, with deficit historically met by secondary supplies and inventory drawdowns
- Recent mine closures (Cominak & Ranger) and lack of investment in uranium mines
- New demand with 55 reactors currently under construction²

Geopolitical uncertainties

 Events in Russia, Ukraine and Kazakhstan have emphasised the need for energy independence and supply from producers in low-risk, stable jurisdictions

China's commitment to nuclear energy is strengthening

- Share of global demand growing from 19% (2023) to $35\% (2040)^1$
- Active in the uranium market, expected to become the largest consumer of uranium in the world by 2026¹

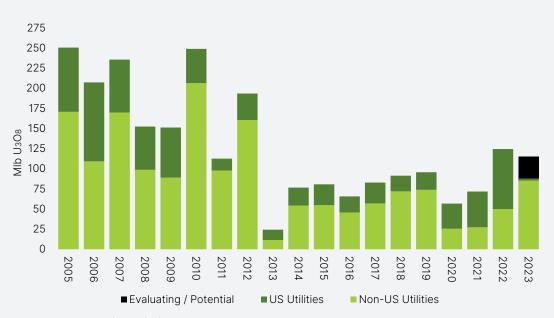
^{1.} TradeTech, Uranium Market Study 2023: Issue 1

^{2.} World Nuclear Association (WNA)

Uranium Market: returning to fundamentals

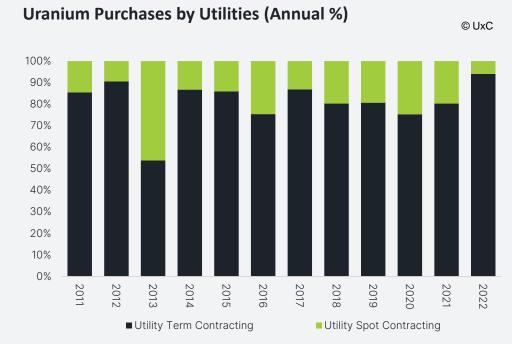


Term Contracting Activity (Mlb U₃O₈ p.a.)



UxC Uranium Market Outlook, Q1 2023

- Strong levels of term contracting have returned to the uranium market, driven by mid-term supply / demand fundamentals
- Increased term market activity coincides with vastly reduced "carry-trade" activity
- Sustained increased pricing in the term market (+84%) and spot market (+51%) over the last two years¹



UxC 2022

- Over the past decade, 82% of uranium purchased by utilities has been under long term contracts
- Major mine restarts (McArthur River & Langer Heinrich) were committed and contracted during 2022 with no disruption to term pricing levels
- Strong enrichment market starting to drive additional uranium demand through "over feeding"

Langer Heinrich Mine: uranium marketing update



Paladin has secured industry-leading long-term cornerstone offtake agreements with a range of top tier global counterparties



Uranium Marketing Strategy

- ✓ Rebuild a global contract book with industry-leading counterparties
- ✓ Underpin the financial security and resilience of Paladin with premium priced, Tier-1 contracts
- Minimise the impact of potential future disruption to the uranium spot market and contract with primary consumers of uranium
- ✓ Remain overweight to market pricing early in the uranium market up-cycle



Execution

- ✓ Foundation customers and cornerstone offtakes now secured to underpin the restart of LHM
- ✓ All offtake agreements and the tender award cover 48% of estimated production from CY2024 to CY2030^{1,2}
 - 19% base-escalated price mechanisms^{1,2}
 - 29% market-related price mechanisms^{1,2}
- ✓ Contract book is closed for CY2024





North America & Europe

- Offtake agreements with four leading counterparties in the US & Europe³
- Final offtake agreement for previously announced US tender award expected to be signed during the current quarter
- Combined market capitalisation of US counterparties of over US\$200 billion



China

- Life of Mine Offtake agreement with CNNC, a leading Chinese nuclear utility³
 - One of the largest consumers of uranium in the world
 - Volumes and nominations agreed for CY2024 and CY2025
 - Flexibility on delivery timing during operational ramp-up period
 - Early payment arrangements successfully negotiated

^{1.} Based on Langer Heinrich Uranium Life of Mine production as detailed in the ASX Announcement "Langer Heinrich Mine Restart Plan Update, Mineral Resource and Ore Reserve Update" dated 4 November 2021.

All material assumptions underpinning the production target continue to apply and have not materially changed

^{2.} Contract coverage and pricing mechanism calculations are based on nominal contract volumes of executed offtake agreements and the finalised tender award which is currently being executed Base-escalated contracts include a contract with a fixed price mechanism incorporating a specified escalation rate

^{3.} Subject to customary conditions precedent contained in offtake agreements, including the requirement to receive Namibian Government approvals



Delivering Sustainable Production



Langer Heinrich Mine: on track for production in Q1 CY2024 (75% Paladin ownership)



Proven history

- 10 years of production history
- Simple, proven process flow with competitive cash cost position
- Over 43Mlb U₃O₈ produced and sold
- Placed into Care & Maintenance in 2018 due to sustained low uranium price
- Strong government support, with all required licenses in place

Restart project execution

- Experienced EPCM contractor
- Focus on improving plant throughput & operational availability
- · All long lead items secured
- Project over 40% complete
- Key leadership appointments complete
- Capable workforce availability
- Low cost restart with ramp up from stockpiled ore

Future success

- Q1 CY2024 production target
- Cornerstone offtakes secured
- Peak production of 6Mlb of U₃O₈
- LHM to be 4% of annual global uranium production
- 17 year mine life, producing 77Mlb of U₃O₈
- Independent producer in a premier jurisdiction
- Further upside available through operational optimisation







Namibia: a premier uranium jurisdiction





Globally significant uranium province (Husab, Rössing and Langer Heinrich) and a major supplier of the world's uranium



Uranium has been produced in Namibia since 1976 under a stable mining and uranium regulation regime



Excellent local infrastructure (port, road, rail, water & power) with proximity to the Walvis Bay industrial hub



Mining contributed $\sim 10\%$ to the country's GDP in 2022^1



Strong community and government support for the uranium industry

^{1.} Source: Bank of Namibia

Langer Heinrich Mine: delivering the scope of work



July 2022 Q1 CY2024 Decision to Long lead orders **Progression of Repair** Repairs & Operations Early works All equipment Detailed structural & restart completed & Refurbishment and workforce Refurbishment completed orders completed mechanical engineering **First** LHM works completed Growth works completed engaged **Production EPCM Project safety** Mobilisation of Removal of redundant **Key Operations** Progressive plant Growth & Introduction Commissioning of stockpile contractor Repair & equipment & demolition leadership team commissioning debottlenecking completed & system Refurbishment appointed implemented completed appointments made works completed handover to LHM commences ore Operations contractors



LHM Restart Project photos



Pre-leach surge tank construction progress



Hydrosort screen assembly



Radiation safety briefing



Demolition of old Final Product Recovery building & equipment removal





Hydrosort final component assemblies



Primary & Tailings Cyclone Clusters Fabrication



A quality global suite of exploration assets provides growth opportunities







Globally significant, high-grade exploration portfolio



Extensive historical exploration activity with over US\$140M previously spent



Diverse portfolio of assets provides optionality



Exploration activity has re-commenced at Michelin with activities focused on development pathways and regional exploration opportunities



Paladin will continue to pursue a disciplined approach to exploration activity whilst assessing global opportunities

¹ See the "About Paladin" section for more information and Mineral Resource Tables; ² Measured, Indicated and Inferred Mineral Resources for the Michelin, Mount Isa and Manyingee & Carley Bore Projects on a 100% Project basis as at 30 June 2022

Canada: Michelin uranium project¹

(70% Paladin ownership)





Strategic land position in premier mining jurisdiction

- Uranium is classified as a critical mineral in Canada
- Strategic location for US utilities, close to Voisey Bay mine and associated infrastructure
- Mineral Resource (M+I+I) 127.7Mlb at 860ppm



Advanced exploration project

- US\$75M of total historical in-ground exploration with infill drilling undertaken
- Exemption to the Non-Resident
 Ownership Policy granted to allow
 Paladin to operate as 100% non-resident
 owner
- Field investigation of historic data and work completed



Development and Exploration pathways

- Update of prior concept study to incorporate latest pricing, technology and geological understanding has commenced
- Finalising plans for the drilling program to commence in FY2024
- Groundwork to further understand the regional exploration potential

¹ A sales process has commenced for the Michelin Project as required under the terms of the Michelin Joint Venture Agreement. Paladin has the right, acting reasonably, to determine if the terms of any offer made under the sales process are acceptable. Paladin also has a right of pre-emption to acquire the Michelin Joint Venture partner's interest in the Project







Execute at the Langer Heinrich Mine

Return Paladin to a globally significant independent uranium producer

Define Development and Exploration Potential

Define a development and exploration pathway at the Michelin project, optimise and extend the Langer Heinrich Mine and advance our Australian assets

Embed
Sustainable Returns

Establish a capital management framework to drive sustainable value to shareholders via capital returns, organic growth and M&A activity



Paladin Board and CEO





Cliff Lawrenson
Non-Executive Chairman

Mining executive with deep expertise in the minerals and energy sectors derived from global experience having worked extensively in project development and investment banking.



Melissa Holzberger Non-Executive Director

Mining and nuclear lawyer with significant experience in the energy sector with extensive legal, risk, compliance, corporate ethics and corporate governance expertise.



Jon Hronsky OAM Non-Executive Director

Geologist with more than 35 years of experience in the global mineral exploration industry, primarily focused on project generation, technical innovation and exploration strategy development.



Peter Main Non-Executive Director

Mining and financial experience spanning more than 30 years experience in senior management roles in mining and investment banking.



Joanne Palmer
Non-Executive Director

Over 25 years of industry experience providing audit and assurance services on company listings, mergers, acquisitions and takeovers and significant experience in auditing international mining companies.



Peter Watson Non-Executive Director

Chemical engineer with extensive experience in the global resources sector across senior technical, project, and management roles as well as running ASX-listed companies.



Ian Purdy Chief Executive Officer

Highly-respected executive with over three decades' experience managing and optimising operations, delivering large projects, executing on business improvements and asset sales.

Paladin Executive Team





Anna Sudlow Chief Financial Officer

Corporate finance professional with over 25 years' experience in funding execution, commercial management, accounting, finance and treasury across the energy and resources sectors in international jurisdictions.



Paul Hemburrow Chief Operating Officer

Senior Operations Executive with over 30 years experience in the resource industry, covering multiple commodities in mining, processing, port operations and rail in complex operating environments.



Alex Rybak Senior Vice President Marketing & Business Development

Mergers & Acquisitions, Business Development and Strategy professional with over 20 years of in-house and investment banking experience across a broad range of sectors including energy and resources.



Jess Oram Senior Vice President Exploration

An experienced exploration geologist with 30 years experience in mineral exploration and management experience across the uranium exploration and mineral discovery sectors.



Johan Roux General Manager Langer Heinrich Mine

Legal professional with over 30 years' experience in the management of corporate, labour, mining, commercial, human resources and legal compliance laws in Namibia and South Africa.



Johan Coetzee Project Director Langer Heinrich Restart Project

Johan has nearly 30 years of global experience in delivering end-to-end project management and operational activities across the resources, infrastructure and related industries.

Paladin is committed to implementing leading ESG reporting frameworks



As Paladin moves towards production, the structured implementation of these three reporting frameworks (SASB, GRI and TCFD) will increase the level of detail reported over time, and will provide a more complete representation of Paladin's performance to all key stakeholders.

Combining the complimentary SASB / GRI / TCFD frameworks provides a comprehensive integrated sustainability reporting framework:



Paladin has undertaken a materiality assessment and identified material topics and priorities relevant during the Company's pre-production, and production phases:

Material Topics & Priorities	Environmental	Social	Governance
Pre-production	Biodiversity	Occupational Health and Safety	Corporate Governance
	Tailings Management	Radiation	Business Ethics and Transparency
	Rehabilitation	Diversity	Risk Management
		Community and Stakeholder Relations	Cyber Security
			Tax Transparency
Production	Air Quality	Nuclear Safeguards	GRI
	Water Management	Product Safety and Transportation	TCFD
	Waste Management	Labour Practices	Modern Slavery Reporting
	Energy Management	Employee Opportunities	
	Greenhouse Gas Emissions	Relationships with Indigenous People	
	Land Disturbance		



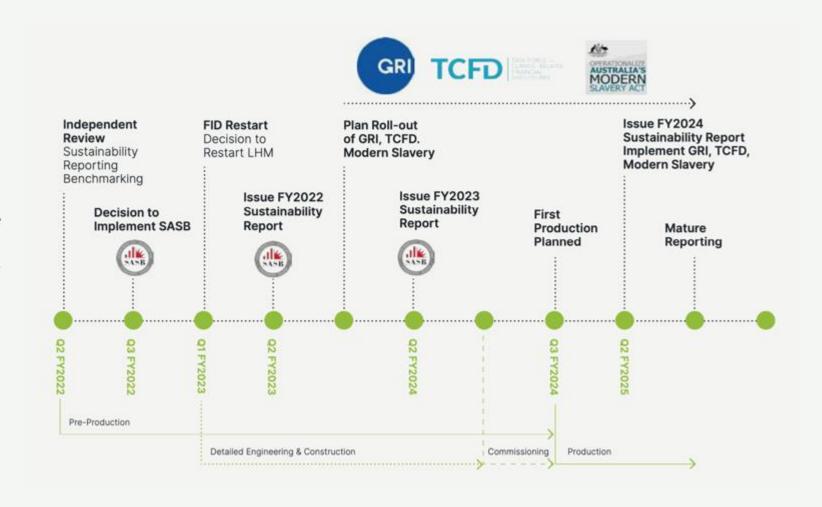
Paladin's Sustainability Reporting Road Map



Paladin has adopted and implemented the Sustainability Accounting Standards Board (SASB) framework, with the 2022 Sustainability Report being released in October 2022

Following the decision to return the LHM to production, the Company will incorporate the Global Reporting Initiative (GRI) standards and Task Force on Climate-related Disclosures (TCFD) framework for implementation from first production at the LHM

Paladin will comply with all reporting and requirements under the *Modern Slavery Act* 2018 (Cth), including the maintenance of responsible and transparent supply chains, when production recommences in CY2024



Mineral Resources and Ore Reserves – Langer Heinrich



Summary Mineral Resources¹

Location	Classification	Millions of Tonnes (Mt)	Grade U₃O ₈ (ppm)	Contained U ₃ O ₈ (Mlb)	Grade V₂O₅ (ppm)	Contained V ₂ O ₅ (Mlb)
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 (Mlb)
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 U_3O_8 cut-off applied to in-situ Mineral Resources – 250ppm U_3O_8 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 U_3O_8 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 U₃O ₈	MIb U ₃ O ₈ (100% basis)	Paladin Ownership (%)
Canada					
Measured	Michelin ¹	17.6	965	37.6	70
	Rainbow ²	0.2	920	0.4	70
Indicated	Gear ²	0.4	770	0.6	70
	Inda ²	1.2	690	1.8	70
	Jacques Lake ¹	13.0	630	18.0	70
	Michelin ¹	20.6	980	44.6	70
	Nash ²	0.7	830	1.2	70
	Rainbow ²	0.8	860	1.4	70
Inferred	Gear ²	0.3	920	0.6	70
	Inda ²	3.3	670	4.8	70
	Jacques Lake ¹	3.6	550	4.4	70
	Michelin ¹	4.5	985	9.9	70
	Nash ²	0.5	720	0.8	70
	Rainbow ²	0.9	810	1.6	70
Total Canada		67.7	860	127.7	70

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)

Mineral Resources table – Australian exploration portfolio



Mineral Resources		Mt	Grade ppm U₃O ₈	Mlb U ₃ O 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
	Odin ⁵	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
	Odin ⁵	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) 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 14 January 2014 "Manyingee Minerals Resources - Amendment" (reporting standard JORC 2012) ⁹ 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 Year Financial Report 31 December 2011" (reporting standard JORC 2004); Warwai - ASX Announcement Summit Resources Ltd dated 29 January 2013 "Half Year Financial Report – 31 December 2012 (reporting standard JORC 2004)



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