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Disclaimer

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Competent Person Statement

The information in this report that relates to Exploration Results is based on, and fairly represents, information compiled and reviewed by Mr Andrew Pearce, who is an employee of Poseidon Nickel, and is a Member of The Australian Institute of Geoscientists.

The information in this report which relates to the Black Swan Mineral Resource is based on, and fairly represents, information compiled by Mr Andrew Weeks who is a full-time employee of Golder Associates Pty Ltd. The information in this report which relates to the Black Swan Ore Reserve is based on, and fairly represents, information compiled by Mr Andrew Weeks who is a full-time employee of Golder Associates Pty Ltd and who is a Members of the Australasian Institute of Mining and Metallurgy.

The information in this report that relates to the Silver Swan Tailings Mineral Resource is based on, and fairly represents information complied by Mr Ian Glacken, who is a full-time employee of Optiro Pty Ltd, an independent consultant to Poseidon Nickel Ltd. The information in this report which relates to the Silver Swan Mineral Resource is based on, and fairly represents, information compiled by Mr Steve Warriner, Chief Geologist, who was a full-time employee at Poseidon Nickel, and is a Member of The Australian Institute of Geoscientists and Mr Kahan Cervoj who is a full time employee of Optiro Pty Ltd and is a Fellow of the Australasian Institute of Mining and Metallurgy. The information compiled by Mr Matthew Keenan who is a full-time employee of Entech Pty Ltd and is a Member of the Australasian Institute of Mining and Metallurgy.

The information in this report which relates to the Lake Johnston Mineral Resource is based on, and fairly represents, information compiled by Mr Steve Warriner, Chief Geologist, who was a full-time employee at Poseidon Nickel, and is a Member of The Australian Institute of Geoscientists and Mr Andrew Weeks who is a full-time employee of Golder Associates Pty Ltd and is a Member of the Australasian Institute of Mining and Metallurgy. The information in this report which relates to the Lake Johnston Ore Reserves Project is based on, and fairly represents, information compiled by Mr Matthew Keenan who is a full-time employee of Entech Pty Ltd and is a Member of the Australasian Institute of Mining and Metallurgy.

The information in this Updated Gold Tailings Project Mineral Resource Statement which relates to Mineral Resources is based upon details compiled by Ian Glacken, who is a Fellow of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Ian Glacken is an employee of Optiro Pty Ltd and has sufficient experience which is relevant to the style of mineralisation and the deposit under consideration, and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code).

The Company is not aware of any new information or data that materially affects the information in the relevant market announcements. All material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed.

Mr Pearce, Mr Warriner, Mr Cervoj, Mr Weeks, Mr Glacken and Mr Keenan all have sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activity which they are undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' (the JORC Code 2012). Mr Pearce, Mr Warriner, Mr Cervoj, Mr Weeks, Mr Glacken and Mr Keenan have consented to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The Australian Securities Exchange has not reviewed and does not accept responsibility for the accuracy or adequacy of this release

Forward Looking Statements

This release contains certain forward looking statements including nickel production targets. Often, but not always, forward looking statements can generally be identified by the use of forward looking words such as "may", "will", "except", "intend", "plan", "estimate", "anticipate", "continue", and "guidance", or other similar words and may include, without limitation, statements regarding plans, strategies and objectives of management, anticipated production and expected costs. Indications of, and guidance on future earnings, cash flows, costs, financial position and performance are also forward looking statements

Forward looking statements, opinions and estimates included in this announcement are based on assumptions and contingencies which are subject to change, without notice, as are statements about market and industry trends, which are based on interpretation of current market conditions. Forward looking statements are provided as a general guide only and should not be relied on as a guarantee of future performance.

Forward looking statements may be affected by a range of variables that could cause actual results or trends to differ materially. These variations, if materially adverse, may affect the timing or the feasibility and potential development of the Golden Swan underground mine.



COMPANY OVERVIEW

The Poseidon Story



Western Australian focused

Experienced exploration and development team



Combined Nickel Resources

~400kt Ni



2Mtpa processing plant at Black Swan

1.5Mtpa processing plant at Lake Johnston (both on C&M)



Gold Tailings Project containing 180koz Au + option to treat another 62koz Au BFS completed



Targeting nickel production in 2022

Three quality nickel sulphide assets

Significant exploration upside



Golden Swan and Silver Swan

Ultra high-grade nickel



Golden Swan

High-grade nickel discovery



Multiple production scenarios given two strategically located processing plants



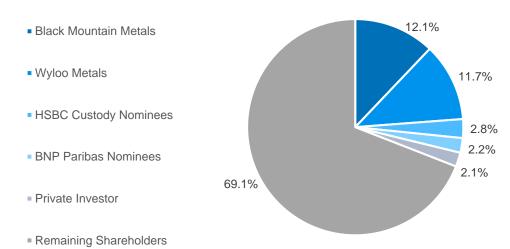
Progressing toward generating revenue in 2022

Capital Structure



Capital Structure/Enterprise Value							
ASX Code	POS						
Shares on Issue	3.064B						
Share Price (16 Sept 2021)	\$0.11						
Market Cap	~\$330M						
Cash (16 September 2021)	~\$30M						

Significant Shareholders



Share Price Performance



Experienced Board and Executive Team





Derek La Ferla

Non-Executive Chair

Derek La Ferla is an experienced corporate lawyer and company director with over 30 years of experience working in corporate and commercial law. Derek is on the National Board of the AICD, a member of its WA Council and a fellow since 2010. He is also a partner (part time) at large independent WA law firm, Lavan and the Chairman of Sandfire Resources Ltd and Threat Protect Australia Ltd.



Peter Harold

Managing Director and CEO

Peter Harold is a process engineer with over 30 years corporate experience in the minerals industry, specialising in financing, marketing, business development and general corporate activities. Prior to joining Poseidon, Peter was the Managing Director of Panoramic Resources for 18 years which developed and operated the Savannah and Lanfranchi nickel suphide underground mines.



Dean Hildebrand

Non-Executive Director

Dean Hildebrand is a Director and Chief Financial Officer of Black Mountain Metals, a global battery metals mining company. He is a corporate finance professional with experience in capital markets, mergers and acquisitions, and project financing within the natural resources sectors. Dean is the nominee Director for Black Mountain Metals Pty Ltd, a significant shareholder of the Company.



Felicity Gooding

Non-Executive Director

Felicity Gooding is the Deputy Chief Executive Officer of Minderoo, encompassing the philanthropic activities of Andrew and Nicola Forrest. Felicity has held senior positions at PwC, Diageo Plc and Fortescue Metals Group Ltd where she was instrumental in the raising of over \$5bn expansion financing. Prior to joining Minderoo, Felicity was an executive at potash development company Sirius Minerals Plc. Exploration Companies Inc.



Peter Muccilli

Non-Executive Director

Peter Muccilli is a geologist with more than 30 years of extensive exploration, development, operational experience in the resources sector, particularly nickel, gold, zinc and lead. He has proven experience in mine geology, exploration and resource estimation and was the former Managing Director and Chief Executive Officer for Mincor Resources NL. Peter is also the Technical Director for Constellation Resources Ltd.



Brendan Shalders

CFO & Joint Co Sec

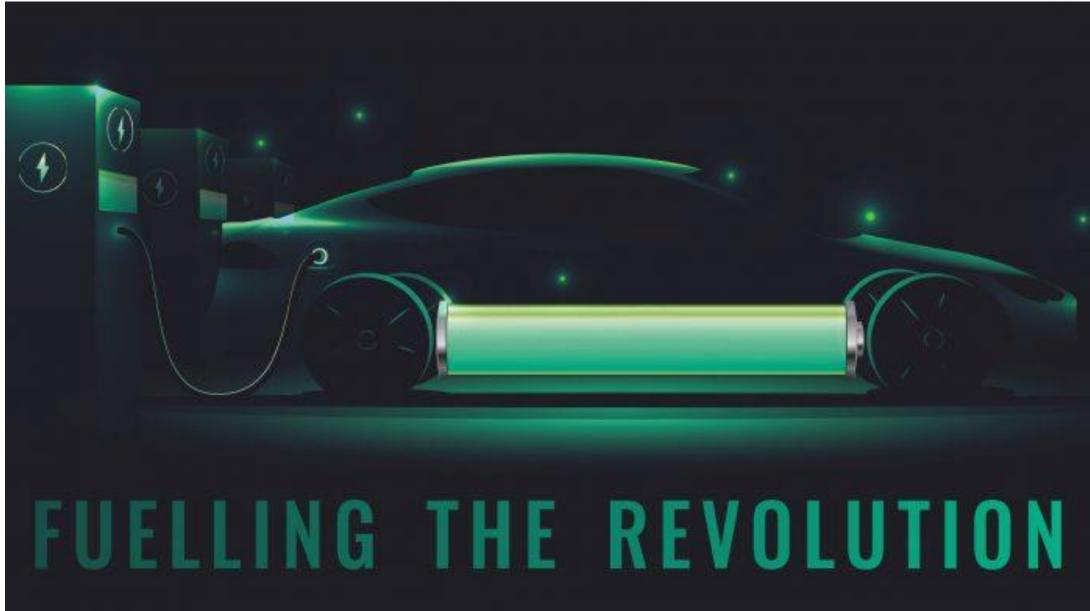
Brendan Shalders is a Chartered Accountant having commenced his career at KPMG. Most recently he was Managing Director at FTI Consulting for nearly 3 years. Having held senior finance roles in both advisory and corporate settings, he has over 16 years' experience in corporate finance, accounting, risk management and business development, predominantly within the mining and mining services industries.



NICKEL MARKET

Electric Vehicles to drive massive nickel demand growth





Nickel Outlook



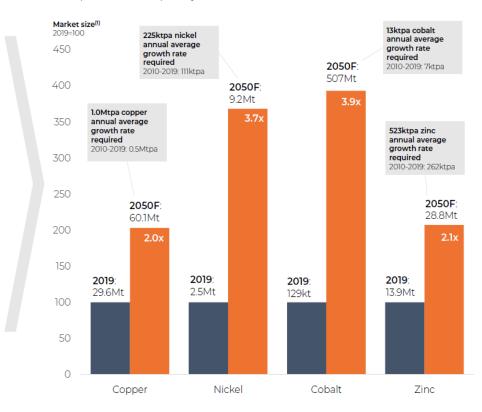
Electric Vehicles (EVs) drive nickel demand

- Significant investment by car manufacturers in electrification
- Traditional car makers, i.e. VW, showing they can build EVs cost efficiently with their ID.3 model UBS. March 2021
- Battery manufacturers adopting battery chemistries with higher nickel content Trafigura research, SMM, CIAP
- These batteries projected to hold 63% of EV market in six years
- Supply deficits in nickel forming over the decade
- Prices expected to rise to incentivise new production capacity

Projected Base Metal Demand Growth

... needs significant metals supply growth ...

Forecast commodity demand under a Rapid Transition 1.5°C pathway



Glencore 2020 Preliminary results





OUR NICKEL PROJECTS

Black Swan Project





Project Overview



History

- Black Swan Production 5.9Mt @ 0.7% Ni for 41kt Ni
- Silver Swan Production 2.7Mt @ 5.1% Ni for 137.5kt Ni
- Total production 178.5kpta Ni in concentrate

Existing Resources & Infrastructure

- Silver Swan underground 16kt Ni* (grade 9.5%)¹
- Silver Swan Tailings² 6.2kt Ni & 460t Co
- Black Swan open pit & stockpiles -179kt Ni* (grade 0.6%)¹
- 2.2 Mtpa processing plant and associated infrastructure

Current Focus – FILL THE MILL

- BFS on 1.1Mtpa processing circuit and ore feed sources
- Ore sources Black Swan pit, Silver Swan tailings, high grade Golden Swan and Silver Swan
- Resource & Reserve for Golden Swan, upgrade Silver Swan Resource & Reserve
- Continue to explore the Southern Terrace for more high grade



Black Swan 2.2Mtpa milling circuit
Plans to refurbish and de-rate to
1.1Mtpa throughput

Contained Ni Metal

¹ Mineral Resources Statement Table 1 attached.

² see AX release 15 Sept 2021

Black Swan Project Silver Swan Discovery - 1995

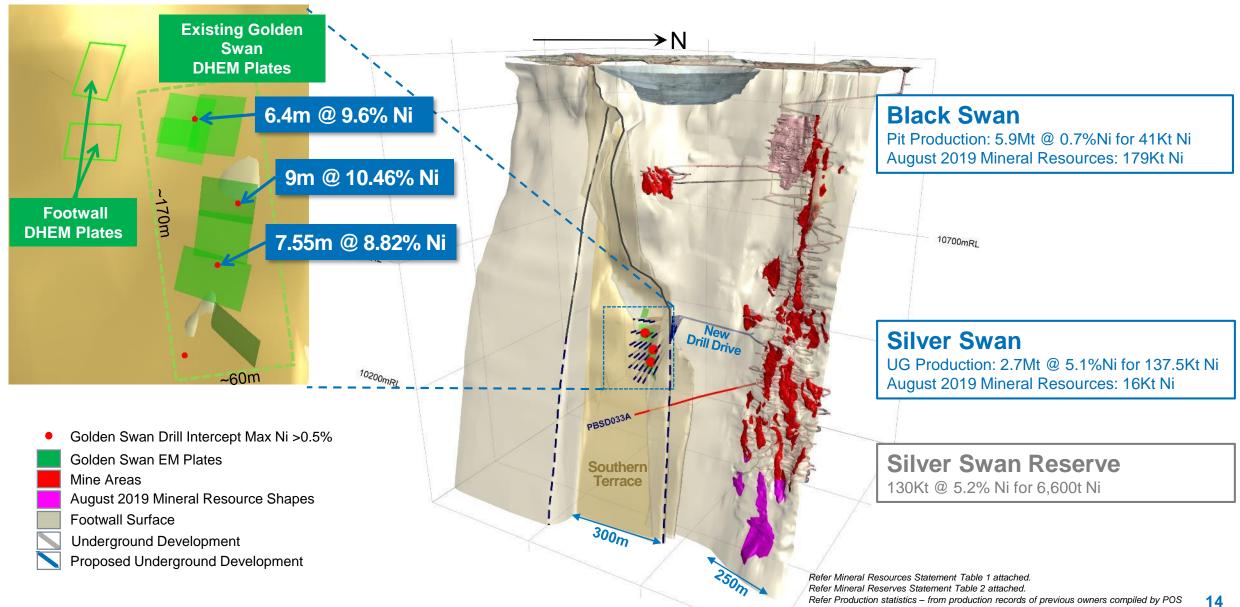




Maiden Resource 440,000 tonnes @ 14% Ni for approximately 62,000 tonnes of Ni¹

Golden Swan High Grade Discovery & Southern Terrace Prospectivity





Golden Swan, Silver Swan & Southern Terrace – Future Activities



Golden Swan

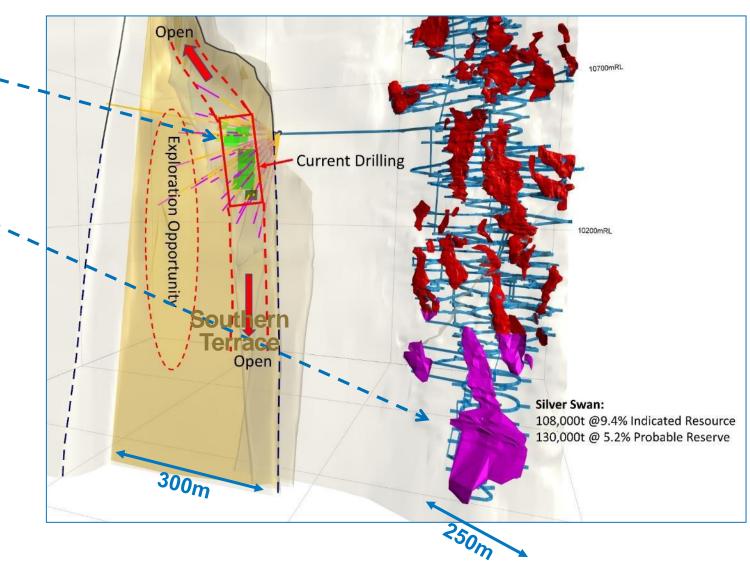
- Resource drilling 15,000m program completed
- Maiden Resource mid October
- Mining Inventory late November

Silver Swan

- Reserve upgrade drilling underway
- Resource extension drilling underway

Southern Terrace

- Further drill testing from Gosling drill position underway
- EM surveys ongoing



Fill the Big Mill – New Initiative



GR Engineering Scoping Study July 2021¹

- 150ktpa and 1.1Mtpa circuits studied
- capex and opex estimates to +/-20% accuracy
- each option estimated to take 6 months to refurbish

1.1Mtpa circuit now the Base Case

- Capex \$22.1M
- Opex \$29.40/t

Ore sources

- Black Swan open pit
- Golden Swan and Silver Swan underground high grade
- Silver Swan tailings (improves Fe:MgO)
- Stockpiles
- Windarra (future)
- 3rd party feed (future)



1 ASX Announcement dated 27 July 2021.

FILL THE BIG MILL TIMETABLE



Mid October 2021				
Mid October 2021				
Mid October 2021				
Mid September 2021				
	Mid Dec 2021			
				Mid Dec 2022 ●
	Mid September 2021	Mid Dec 2021	Mid September 2021 Mid Dec 2021	Mid September 2021 Mid Dec 2021 Mid Apr 2022

Lake Johnston





Project Overview



History

- Emily Ann 1.5Mt @ 3.5% Ni mined and processed between 2001-2007
- Maggie Hays 10Mt @ 0.6%Ni mined and processed between 2008-2014
- 11.5Mt ore mined and processed to produce +100kt Ni

Current resources & infrastructure

- Maggie Hay 3.5Mt @ 1.5% Ni* for 52kt Ni¹
- 1.5Mtpa process plant (on C&M)

Exploration & Development Potential – current activities

- Review all geological data completed
- Update restart study on Maggie Hays mine and refurb of processing
- Test geological theory
 - More Kambalda-style deposits
 - Intrusive model follow up Abi Rose Ni discovery²



Lake Johnston processing plant

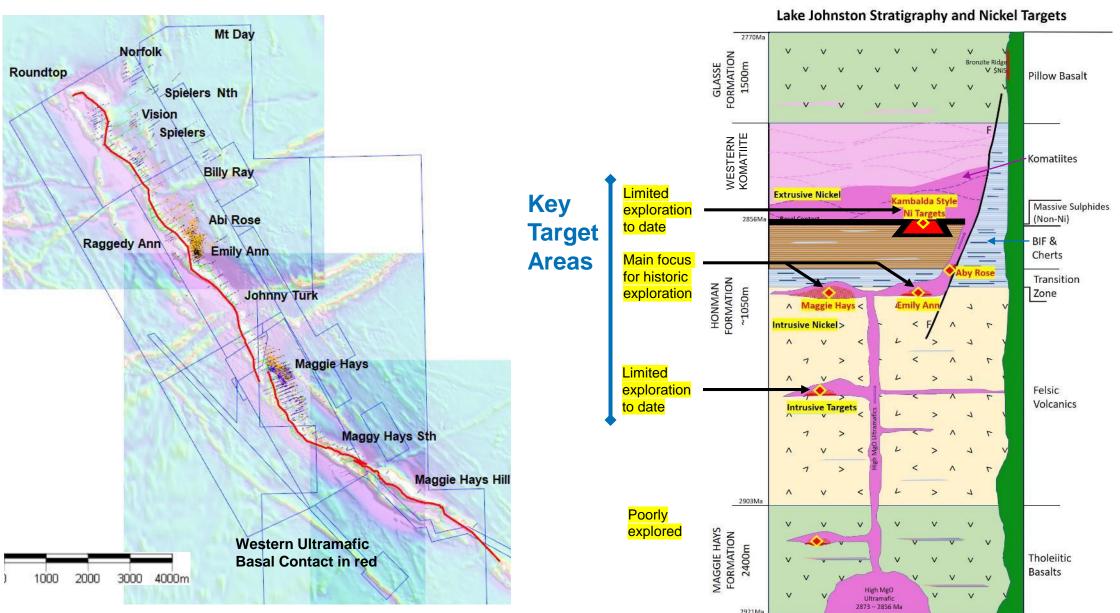
^{*}Contained Ni metal

¹ Reference Mineral Resources Statement Table 1 attached

² ASX Announcement Successful Drill Program at Abi Rose Concluded with all three diamond holes intersecting Massive Nickel-Copper sulphides" dated 21 November 2018

Stratigraphy, Nickel Targets and Regional Magnetics





Mt Windarra





Project Overview



History

- Discovered in 1969 and mined from 1974-1983
- 8Mt mined and processed to produce 84kt Ni*

Current resources & infrastructure

- Mt Windarra 71.5kt Ni* (grade 1.64%)¹
- Cerberus Nickel 69kt Ni* (grade 1.5%)¹
- South Windarra 8kt Ni* (grade 0.98%)¹
- Gold Tailings contains ~180,000 oz/Au Resource²
- July 2021 BFS on Gold Tailings Project² confirmed low risk, low capex & opex

Future activities – Gold tailings & nickel production focus

Gold

- DFS completed July 2021² 53koz recoverable, free cash \$30.6M, IRR 50%
- Discussing potential partnerships to fast-track development and monetise asset

Nickel

Update studies on mining Windarra and/or Cerberus ore and trucking to Black Swan or Leinster

^{*}Contained Ni metal

¹ Refer Mineral Resource Statement attached Table 2

² Refer ASX Announcement "Robust BFS completed for Windarra Gold tailings Project" dated 23 July 2021

³ Refer ASX Announcement "Poseidon to acquire rights to treat Lancefield gold tailings" dated 17 August 2020



The Future

Key Deliverables – Pathway to Production in 2022



Black Swan

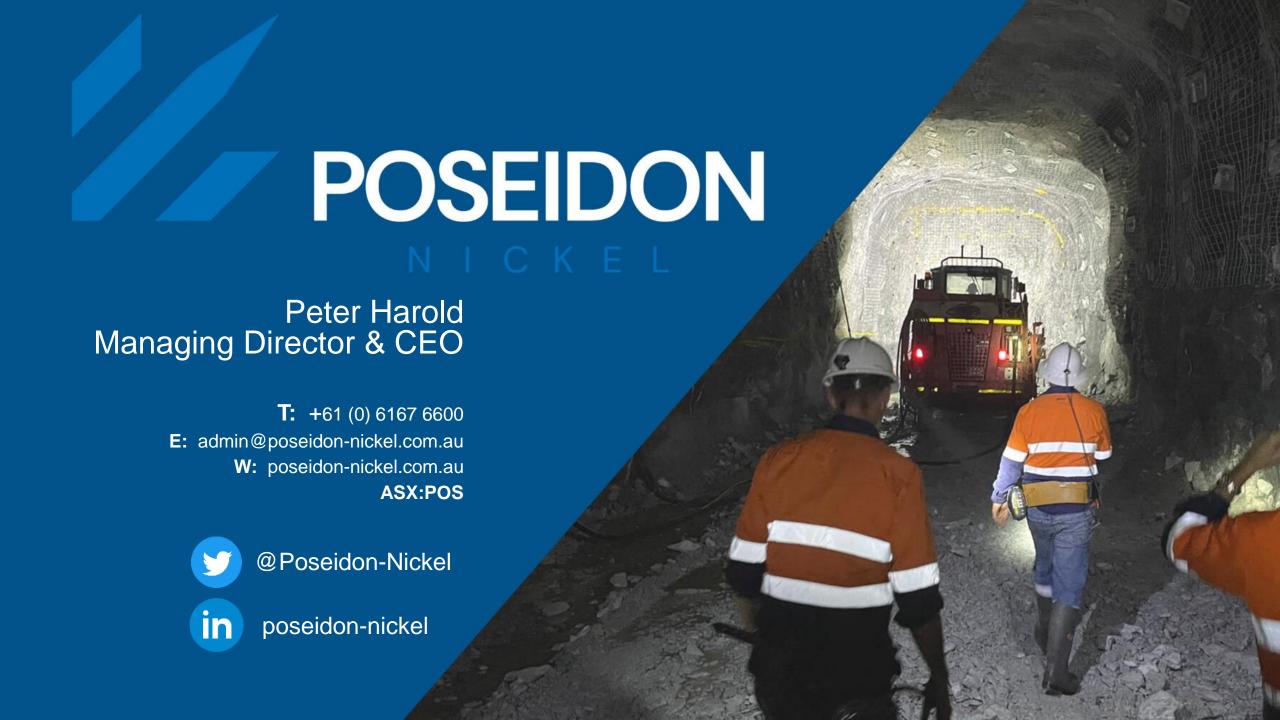
- Deliver maiden Golden Swan Resource and Reserve
- Convert more Silver Swan Resource into Reserve
- Continue to drill test the Southern Terrace
- Complete BFS on 1.1Mtpa processing plant fed from combination of open pit, underground and stockpiles/Silver Swan tailings
- > FID by April 2022 & commissioning of mill during December 2022

Mt Windarra

- Study option of trucking ore to Black Swan or Leinster
- Fast track development of gold tailings asset with a suitable partner

Lake Johnston

- Review and prioritise all exploration targets & start drilling
- Update mining and processing studies on Maggie Hays orebody and 1.5Mtpa mill



Mineral Resource and Reserve Statement Tables



Table 1: Nickel Projects Mineral Resource Statement

			MINERAL RESOURCE CATEGORY													
	Cut Off	INDICATED		INFERRED		TOTAL						ı				
Resources	Compliance	Grade	Tonnes (Kt)	Ni% Grade	Ni Metal (t)	Tonnes (Kt)	Ni% Grade	Ni Metal (t)	Tonnes (Kt)	Ni% Grade	Ni Metal (t)	Co% Grade	Co Metal (t)	Cu% Grade	Cu Metal (t)	
BLAC	K SWAN PRO	DJECT														I
Black Swan	2012	0.40%	9,600	0.68	65,000	21,100	0.54	114,000	30,700	0.58	179,000	0.01	4,200	NA	-	
Silver Swan	2012	4.50%	108	9.4	10,130	61	9.7	5,900	168	9.5	16,030	0.19	316	0.4	679	
LAKE	JOHNSTON	PROJEC	Т													
Maggie Hays	2012	0.80%	2,600	1.60	41,900	900	1.17	10,100	3,500	1.49	52,000	0.05	1,800	0.10	3,400	
WIND	ARRA PROJE	ЕСТ														1
Mt Windarra	2012	0.90%	922	1.56	14,000	3,436	1.66	57,500	4,358	1.64	71,500	0.03	1,200	0.13	5,700	1
South Windarra	2004	0.80%	772	0.98	8,000	-	-	-	772	0.98	8,000	NA	-	NA	-	T
Cerberus	2004	0.75%	2,773	1.25	35,000	1,778	1.91	34,000	4,551	1.51	69,000	NA	-	0.08	3,600	Τ
TOTAL										•/						
Total Ni, Co, Cu Resources	2004 & 2012		16,775	1.04	174,030	27,275	0.81	221,500	44,049	0.90	395,530	0.02	7,516	0.03	13,379	•1

Table 2: Gold Tailings Project Mineral Resource Statement

Table 2.1 Windarra Gold Tailings Project North and South Dams Mineral Resource – JORC 2012 Tabulation									
	INDICATED								
	Tonnes (t)	AU (g/t)	Au (oz)	Ag (g/t)	As (ppm) CU (ppm)	Ni (%)		
North Dam	3,624,000	0.78	91,000	1.9	1,770	360	0.10		
South Dam	923,000	0.48	14,000	0.6	630	369	0.26		
Total	4,547,000	0.72	105,000	1.6	1,540	360	0.13		
Table 2.2 Windarra Gold Tailings Project Central Dam Mineral Resource – JORC 2012 Tabulation									
	INDICATED								
	Tonnes (t)	AU (g/t)	Au (o	oz) A	s (ppm)	CU (ppm)	Ni (%)		
Central	6,198,000	0.37	74,00	00	435.0	270	0.3		

Table 3: Nickel Project Ore Reserve Statement

- California de l'Allandria de l'All									
Nickel Sulphide Reserves	JORC Compliance	ORE RESERVE CATEGORY							
		PROBABLE							
		Tonnes (kt)	Ni % Grade	Ni Metal (t)					
Silver Swan Project									
Silver Swan Underground	2012	130	5.2	6,800					
Silver Swan Open Pit	2012	3,370	0.63	21,500					
Total Ni Reserves	2012	3,500	0.81	28,300					

Table 1 - Nickel Resource Table

Black Swan Resource as at 22 Jul 2014 (ASX announcement "Poseidon Announces Black Swan Mineral Resource" 4 Aug 2014)

Silver Swan Resource as at 5 Aug 2019 (ASX announcement "Silver Swan Resource Upgrade..." 5 Aug 2019)
Maggie Hays Resource as at 17 Mar 2015 (ASX announcement "50% Increase in Indicated Resources at Lake
Johnston" 17 Mar 2015)

Mt Windarra Resource as at Nov 2014 (ASX announcement "Poseidon Announces Revised Mt Windarra Resource" 7 Nov 2014)

South Windarra and Cerberus Resource as at 30 Apr 2013 (ASX announcement "Resource Increase of 25% at Windarra Nickel Project" 1 Dec 2011)

The Company is not aware of any new information or data that materially affects the information in the relevant market announcements. All material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed.

Table 2.1 Windarra Gold Tailings Project JORC2012 Mineral Resource

The Windarra Tailings estimate for North and South Dams has been reported based on the following:

- •no cut-off grade has been used to report the resource, as potential mining method dictates removal of the entire dams
- •a dry bulk in situ density of 1.6 t/m³ has been used to derive tonnages.
- •resource numbers in Table 2.1 may not sum exactly due to rounding.

Table 2.2 Windarra Central Dam JORC2012 Mineral Resource

The Windarra Tailings estimate for the Central Dam has been reported based on the following:

- •No cut-off grade has been used to report the resource, as the potential mining method dictates removal of the entire dam down to a specified elevation.
- •The mineralisation has been reported above a flat elevation of 446 mRL; there are tailings below this level but these have been shown by drilling to contain no gold, and it is anticipated that the proposed mining method will not treat material below this elevation.
- •A dry bulk in situ density of 1.6 t/m³ has been used to derive tonnages.
- •Resource totals may not sum exactly due to rounding.

Windarra Gold Tailings Resource as at 22 June 2020 (see ASX announcement "Gold Tailings Resource at Windarra updated to JORC 2012 Indicated" 22 Jun 2020). The Company is not aware of any new information or data that materially affects the information in the relevant market announcements. All material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed.

Table 3 - Nickel Reserve Table

Silver Swan Underground Reserve as at 26 May 2017 (ASX announcement "Silver Swan Definitive Feasibility Study" 26 May 2017).

Black Swan Open Pit Reserve as at 5 Nov 2014 (ASX announcement "Poseidon Announces Black Swan Ore Reserve" 5 Nov 2014).

The Company completed an upgrade to the Silver Swan Indicated Resource in 2019 which was based upon the 2015 Silver Swan Resource Estimate (refer Table 1 above). At this point it is not known the impact the updated to the Silver Swan Resource will have on the Silver Swan Reserve.

The Company is not aware of any other new information or data that materially affects the information in the relevant market announcements for the Black Swan Open Pit Reserve. All material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed.