

# **POSEIDON NICKEL**

**Primed for the Nickel Revival**

**David Riekie, Interim CEO**

**Annual General Meeting - 28 November 2019**



# Disclaimer

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# Corporate profile



ASX listed, nickel focussed company represented in three major nickel provinces in Western Australia



Owner of three previously operated mines: Black Swan, Lake Johnston and Windarra. Combined Resource portfolio 395,530 contained Ni\* tonnes\*\*, 180,000 oz Au (Windarra tailings)\*\*\*



**Near term value driver is a restart of Black Swan nickel mining operations.**

Currently undergoing pre-restart safety activities. Intended processing capability 1.1mtpa over 3-4 years; Restart timeframe of 6-9 months post a Final Investment Decision (“FID”)



Lake Johnston 1.5mtpa processing capability; underground JORC resource of 52Ni kt\*\* and exploration potential

\* Contained Ni metal

\*\*Reference Mineral Resources Statement Table 1 attached

\*\*\*Reference Mineral Resources Statement Table 2 attached

## Capital Structure/Enterprise Value

ASX Code	POS
Shares on Issue	2.64bn
Share Price	~\$0.053
Market Cap	~\$140M
Cash (30 Sep 19)	~\$56.5M
Debt (convertible note)	\$US\$17.5 (~AU\$25M)

## Capital Structure/Enterprise Value

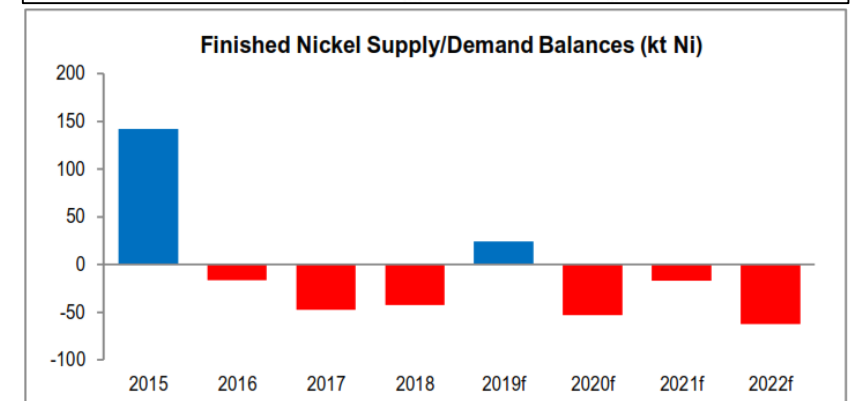
Black Mountain Metals Ltd	~20%
Squadron Resources Ltd	~17%

## Board & Key Executives

Geoff Brayshaw	Chairman/Independent Director
<b>Derek La Ferla</b>	<b>Independent Non-Exec Chairman (1 Dec 19)</b>
Felicity Gooding	Non-Executive Director
Karl Paganin	Non- Executive Director
<b>Peter Harold</b>	<b>MD &amp; CEO (1 Mar 20)</b>
David Riekie	Interim CEO
Brendan Shalders	CFO & Joint Co Sec
<b>Andrea Betti</b>	<b>Joint Co Sec (9 Sept 19)</b>
Steve Warriner	Chief Geologist

# Nickel Market – Growing Demand and Limited Supply

- Declining and historically-low LME stockpiles
  - Stockpiles are currently averaging ~70kt
- Indonesia, the world's largest nickel ore producer has accelerated plans to ban nickel exports
  - Ban commencing 1 January 2020, two years ahead of schedule
- Threat of existing mine closures
  - Major nickel miner SR Languayn Mining Corp (Philippines) facing potential end-of-life closure
  - Temporary closure of PNG based Ramu nickel mine
- Global production in 2018 was 2.18Mt, 2019 expected to grow to 2.38Mt
- Goldman Sachs has increased its 12-month nickel forecast from US\$16,000/t to US\$22,000/t



Source: International energy agency Global EV Outlook 2018

# Nickel treasury: 395kt contained nickel\*

## Black Swan Operations\*\*

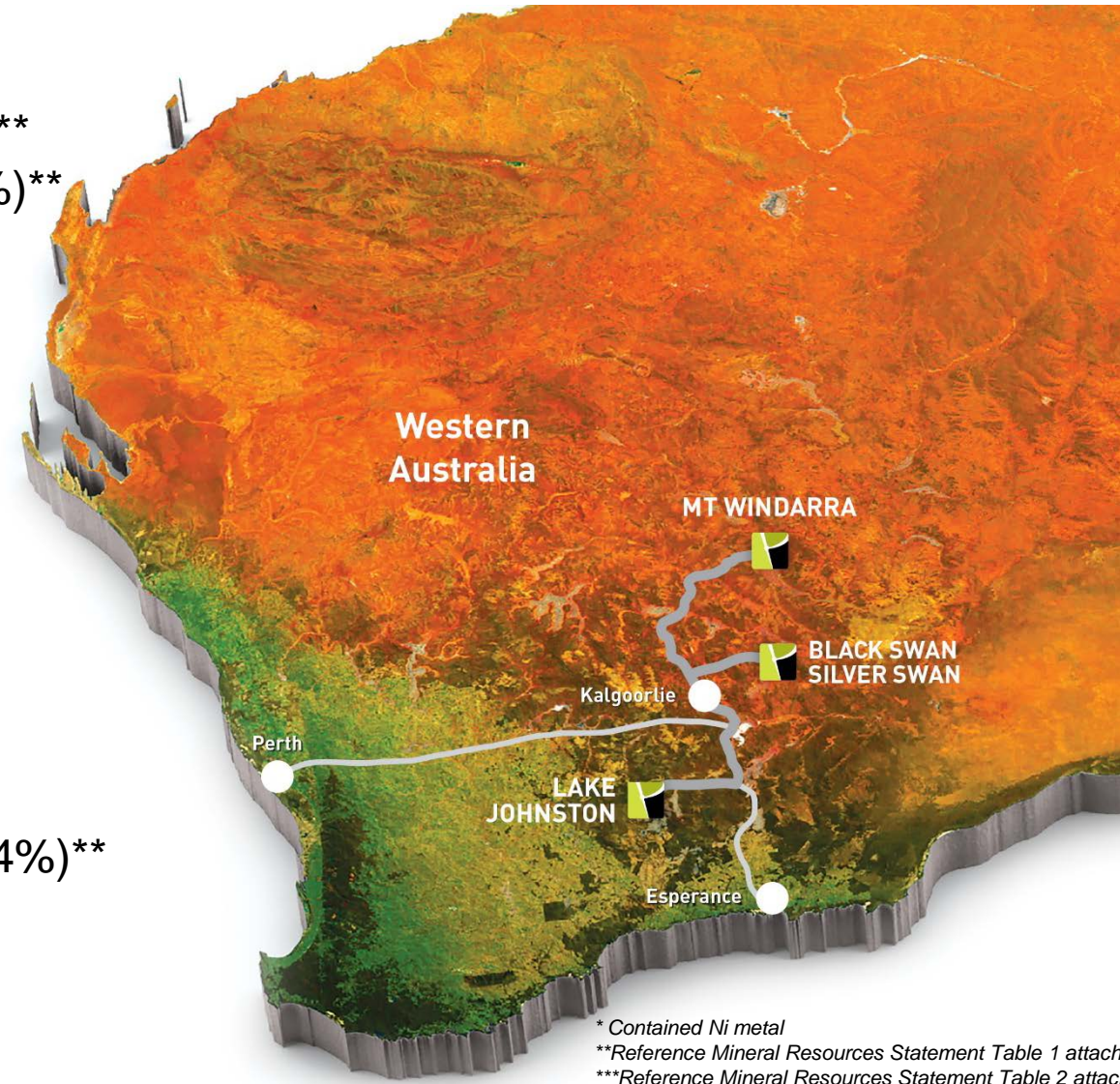
- Silver Swan underground Ni mine 16.0kt Ni\* (Grade - 9.5%)\*\*
- Black Swan Ni open pit & stockpiles 179kt Ni\* (Grade - 0.7%)\*\*
- 2.2mtpa process plant capacity (intended restart 1.1mtpa operation)
- Exploration upside potential

## Lake Johnston Operations\*\*

- Maggie Hays Ni Mine 52kt Ni\* (Grade - 1.5%)\*\*
- Emily Ann Ni Mine – now closed
- Recent Abi Rose Ni discovery – New geological model
- 1.5mtpa process plant
- Exploration upside potential

## Windarra Nickel \*\*

- Mt Windarra & underground Ni mine 71.5kt Ni\* (Grade - 1.64%)\*\*
- Cerberus Nickel deposit 69kt Ni\* (Grade - 1.5%)\*\*
- Potential to upgrade and process ore at Black Swan
- Gold Tailings - Au 183koz & Ag 670koz\*\*\*



\* Contained Ni metal  
\*\*Reference Mineral Resources Statement Table 1 attached  
\*\*\*Reference Mineral Resources Statement Table 2 attached

# Developing a longer term integrated portfolio



- Poseidon holds a highly desirable suite of nickel assets that encompass WA's sulphide nickel provinces
- All operating assets and underlying resources are 100% owned by Poseidon
- Black Swan's restart campaign will be a catalyst for cashflow and operating opportunities
- Lake Johnston has close proximity, compelling exploration targets and processing potential
- Windarra provides a significant underlying Ni resource base
- Combined these assets are the basis to build a sustained, longer term nickel strategy



# Black Swan – The Catalyst



- Black Swan Operations – historical key restart metrics (released July 2018):
  - Potential production of ~7,500t nickel p.a.
  - 3-year mine life
  - Targeting 1.1Mtpa throughput
  - Low-cost start-up
    - Capital cost ~AU\$30m
    - Working capital ~AU\$25m
- Range of activities underway to enable FID, including updates to the July 2018 Pre-Feasibility Study (“PFS”)
- **FID decision due December 2019**
- First nickel concentrate expected 6 to 9 months after commencement of refurbishment works
- AU\$2.9M of time critical precursor works underway to support orderly and timely commencement of refurbishment



# Black Swan nickel operation refurbishment





# Safety works program underway



### Clearing of overgrown flora



Before



After

### Removal of dirt build up & debris



Before



After

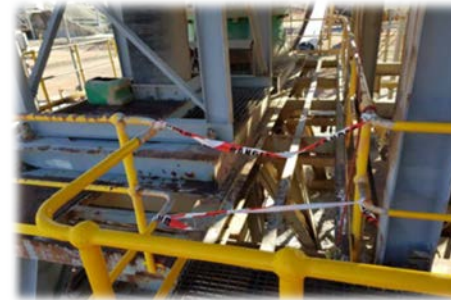
### Secondary Crusher replace checker plates levels 1 & 2



Before



After



Before



After

# Safety works program underway



## Secondary Crusher – Paint handrails



Before



After

## RO stair access repairs



Before



After

## CV203 walkway supports replaced



Before



After

## CV01 walkway handrail replacement



Before



After

# Ongoing Work to Restart Black Swan Operations



Actions	Timing / Status	Outcomes
Resource Drilling at Silver Swan	✓ <b>Completed</b> – feeds into FID improvements	<b>33% Increase in high grade Ni resources at Silver Swan deposit to 16kt Ni @ 9.5%)</b>
Underground RC drilling program beneath Black Swan Open Pit	✓ <b>Completed</b> – feeds into FID, completion due Nov 2019	14 hole (2,481m) drill program complete Significant benefits utilising the novel “up-hole” drilling and survey technique
Partial rehabilitation of underground decline/replacement of escapeways	<b>Underway</b> – Time critical precursor work, completion Q2 2020	Safe working environment for resource and exploration underground drilling
Rehabilitation and testing of key ventilation equipment	<b>Underway</b> – Time critical precursor work, completion due Q1 2020	Utilisation of in-situ capital equipment (cost saving)
De-risking fundamental, reduction critical mining/ processing costs	<b>Underway</b> – feeds into FID, completion due Q4 2019	Ongoing (re)assessment for LOM improvement, sampling, metallurgy & overall project metrics
Key safety works for processing facility	<b>Underway</b> – Time critical precursor work, completion due Q4 2019	Improved access to initiate multiple restart and rehabilitation activities concurrently (to compress elapsed times for restart)

# Untapped Potential



## Three Exploration opportunities at the Black Swan Operations:

### Black Swan Disseminated Deposit

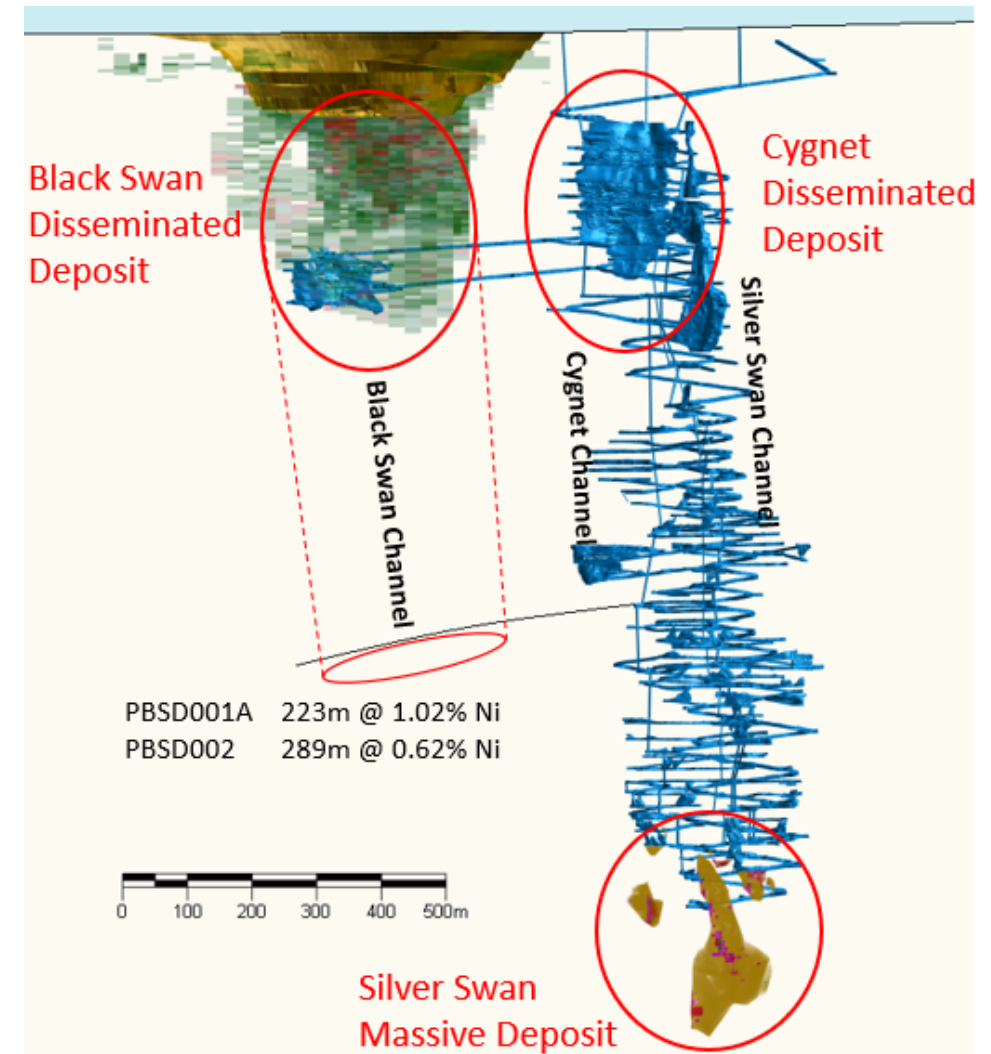
- Opportunity exists below the current open pit Reserve to identify higher grade mineralisation that could be accessed from the existing Gosling drives

### Cygnets Disseminated Deposit

- Significant medium-term opportunity to access disseminated sulphide mineralisation left from earlier mining

### Silver Swan Massive Sulphide Deposit

- High-grade orebody remains open at depth

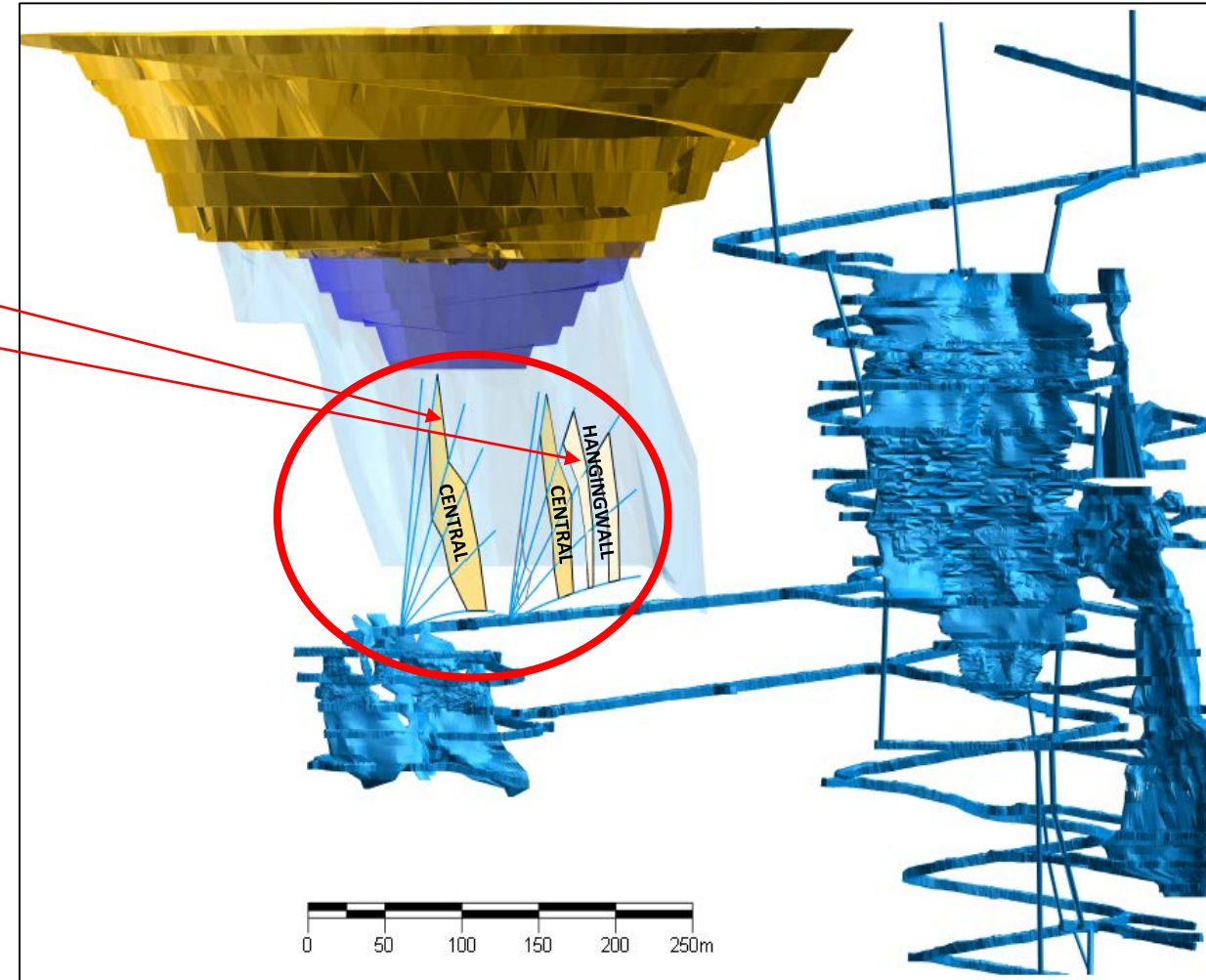


Three Significant Opportunities

# Black Swan Disseminated (BSD)



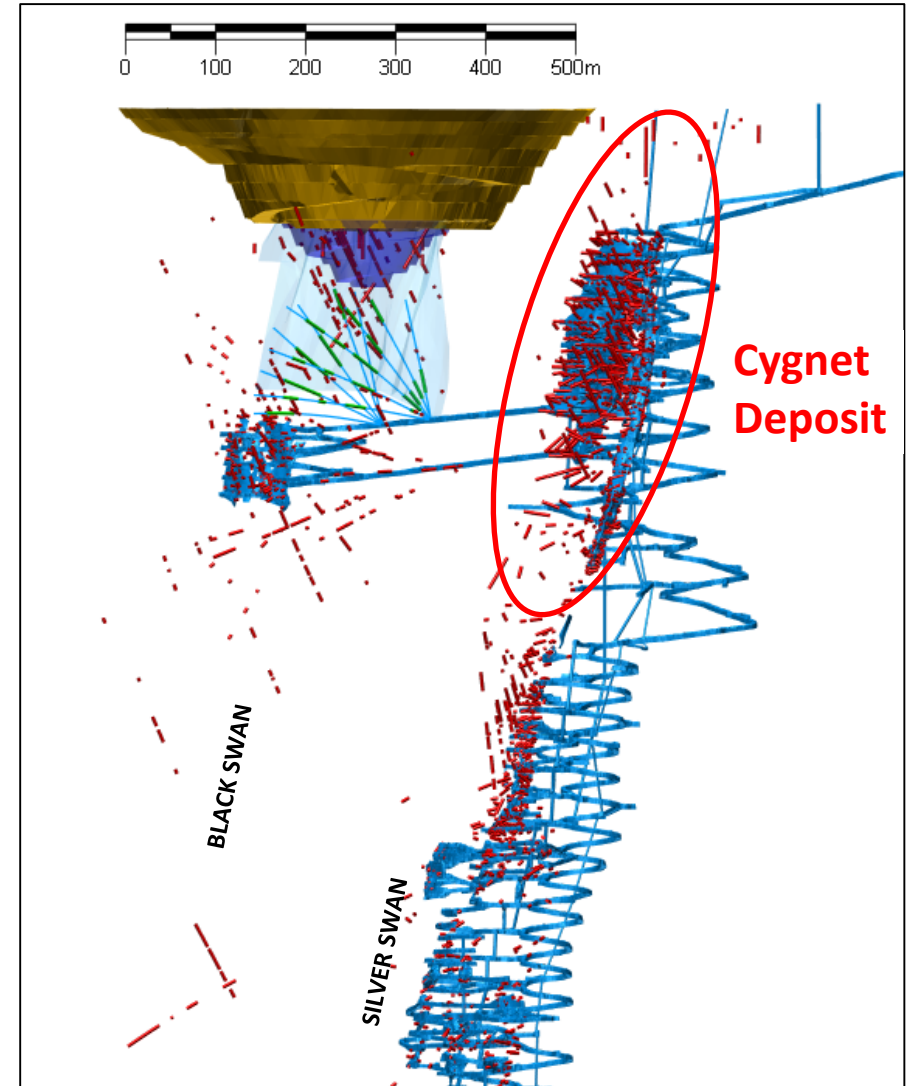
- Planned 14-hole (2,481m) underground RC trial drilling program complete
- Significant width of mineralisation intersected
  - Multiple higher grade zones >1%Ni contained within
  - Additional mineralisation encountered in hangingwall
- Excellent up-hole drilling R&D milestones achieved
  - Full sample recovery on longest up-hole of 237m (PBSC009)
  - Continuous up-hole gyro survey to 200m
  - Lower “nugget effect” observed in assays
- Historical data suggests the BSD mineralisation is continuous from the open pit floor to Poseidon’s RC drilling 200m below



Trial Underground RC drill fans from the Gosling Access Drive, 200m below the Black Swan Open Pit

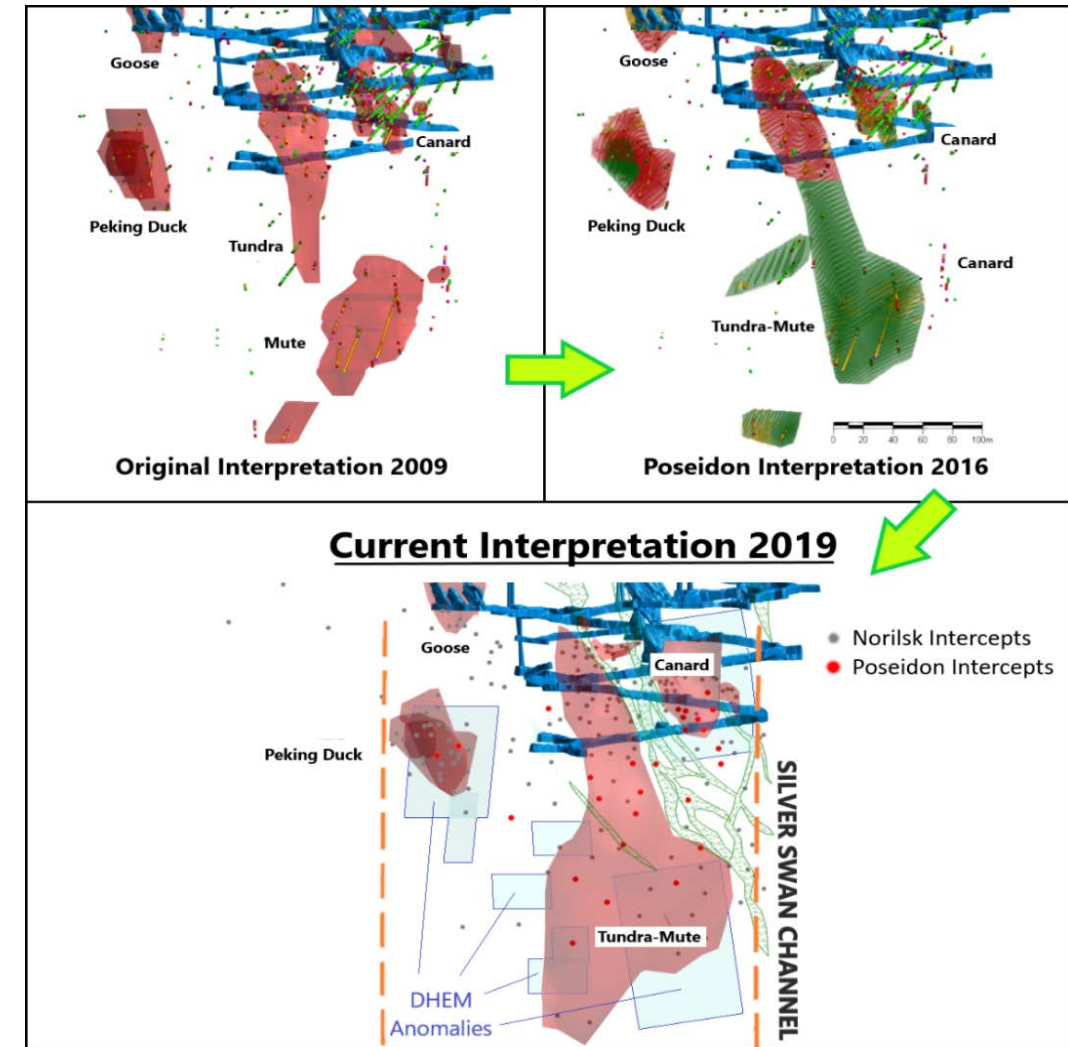
# Cygnet Disseminated Deposit (CD)

- Cygnet massive sulphide mined by MPI
- Significant amount of disseminated in stope hangingwall
- Scoping Study completed by LionOre to extract additional mineralisation
- Mine placed on care and maintenance prior to implementation
- Poseidon to investigate this opportunity to include mineralisation into the next resource calculation



# Silver Swan Massive Sulphide (SS)

- 2019 drilling program (3,662m) increased Silver Swan Resource by 30% (3,630 Ni tonnes) to **168,000t @ 9.5%, for 16,030 Ni tonnes** \*
- The SS deposit remains high-grade and open at depth
- Drilling intersected high grade massive nickel sulphides:
  - Improved confidence in continuity
  - Increased overall grade and width of resource
  - Less anticipated dilution and structural complexity
- Exceptional results will play a pivotal role on the SS restart
- Development design and calculation of the new Reserve is proceeding and at an advanced stage



Evolution of the Silver Swan Resource under Poseidon

\*Silver Swan Resource as at 5 August 2019 (see ASX announcement "Silver Swan Resource Upgrade..." released 5<sup>th</sup> August 2019)

# Lake Johnston Operation

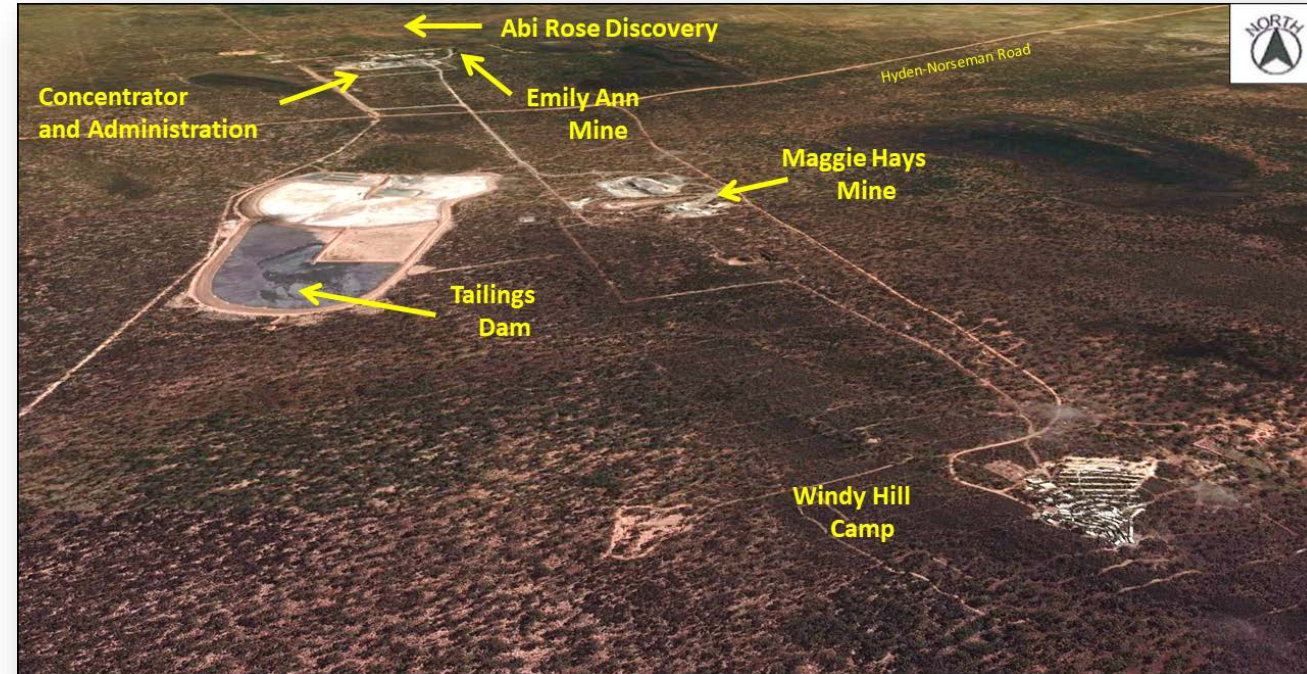
## Two Historical Nickel Mines

### Maggie Hays

- Historical production of 10Mt @ 0.6%Ni between 2008 and 2014
- Remaining resource of 3.5mt @ 1.5% Ni \*\* for 52,000 Ni Tonnes\*

### Emily Ann

- Historical production of 1.5Mt @ 3.5%Ni between 2001 – 2007
- Recent Abi Rose Ni discovery – New geological model
- Significant exploration upside potential
- 1.5mtpa process plant (on care and maintenance)
- Infrastructure and camp in place within close proximity to airstrip



Lake Johnston Operations

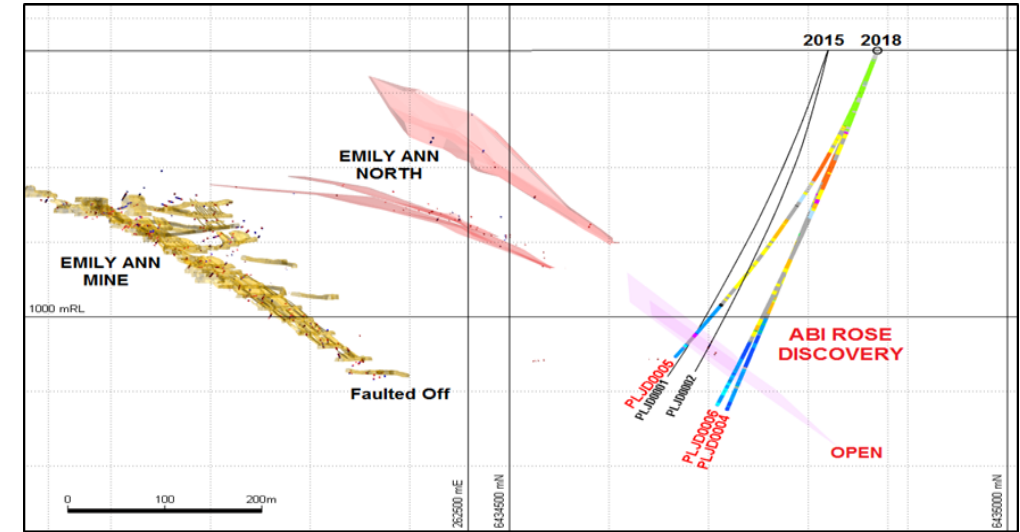
\*Contained Ni metal

\*\*Reference Mineral Resources Statement Table 1 attached

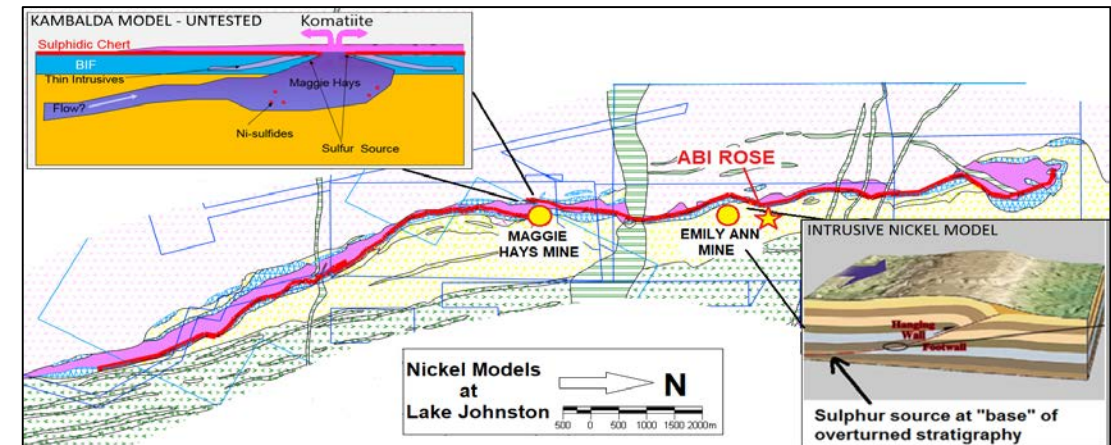


# Abi Rose Discovery & Exploration

- Confirmation of intrusive nickel-copper style model **NOT** traditional komatiite hosted model leading to Abi Rose discovery
- Current geological review outcomes
  - Scope for continuity of mineralisation
  - a new intrusive nickel-copper model best intersection - 10.48m @ 3.2% Ni\*
  - Indicates scope for larger scale potential
- Geochemical/geophysical programs underway
- Approvals in place for current exploration drilling



Abi Rose discovery in relation to Emily Ann Mine

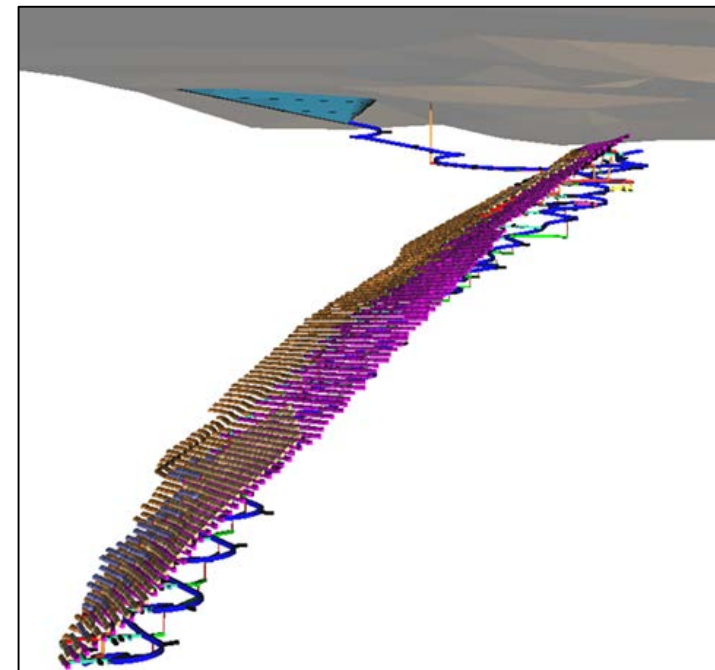
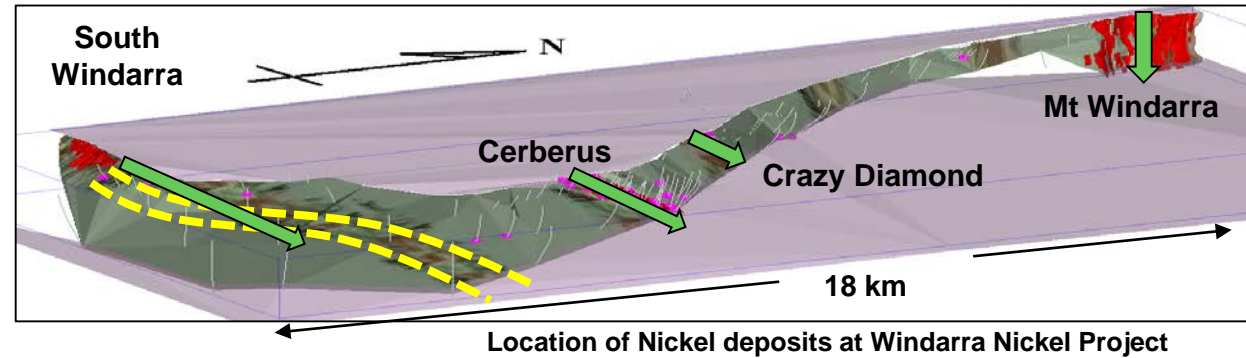


Intrusive and Komatiite models evident at Lake Johnston

\*ASX release 25<sup>th</sup> January 2016 "Significant High-Grade Nickel Intersection at Emily Ann North"

# Windarra Nickel Project

- Discovered in 1969
  - 8 mt mined and processed to produce 84,000 Ni Tonnes\* (1974 - 1993)
- Mt Windarra Underground mine remnant resources
  - 4.36mt @1.64% Ni for 71,500t Tonnes\*\*
  - Mine decline partially refurbished in 2011
- Cerberus deposit 4.55mt @1.51% Ni for 69,000 Tonnes\*\*
  - Existing mine development plan
- Remaining/proximal exploration potential
- Drilling at Crazy Diamond completed, results pending
- Gold tailings 183,000 oz (monetise)



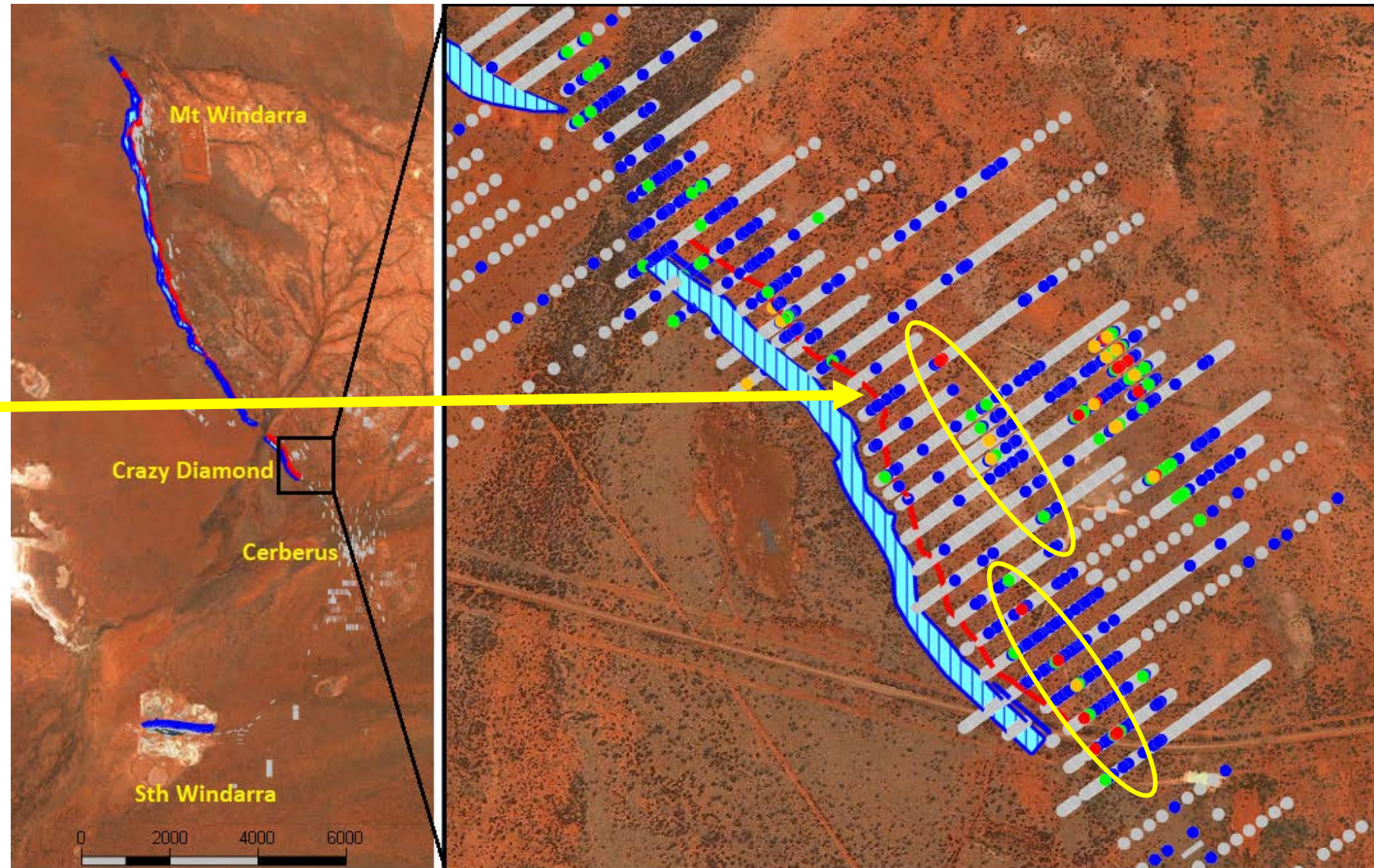
Cerberus Conceptual mine design

\*Contained Ni metal

\*\*Reference Mineral Resources Statement Table 1 attached

# Crazy Diamond Prospect

- 3,500m RC program awarded to VM Drilling
- 4,300m of drilling completed, results due before year end
- Soil program and mapping revealed additional mineralised horizon above the prospective Windarra Ultramafic Base
- POS holes drilled in 2011, 300m south of Crazy Diamond
  - PNRCD0192 – 0.2m @ 1.73%Ni
  - PNRCD0193 – 0.6m @ 0.92%Ni



\*ASX release 14<sup>th</sup> October 2019 \*ASX release 14<sup>th</sup> October 2019  
Black Swan Underground RC Drilling First Assay Results

# Foundations for a Long-Term Nickel Producer

- 100% ownership of three strategic and integrated WA nickel assets
- Rapid, low-cost restart opportunity at the Black Swan Operations with FID expected Q4 2019
- Black Swan Operations into production 6-9 months from Restart
- Significant exploration upside at Black Swan Operations with three distinct target areas
- Lake Johnston and Windarra provide significant exploration and growth upside
- Experienced and enhanced Board and management team to transition support Poseidon into producer status



Black Swan Operations

- Robust Balance sheet and net cash treasury to support restart
- Key cornerstone shareholders (Squadron and Black Mountain Metals)



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# Mineral Resource Statement

**Table 1: Nickel Projects Mineral Resource Statement**

Nickel Sulphide Resources	JORC Compliance	Cut Off Grade	MINERAL RESOURCE CATEGORY												
			INDICATED			INFERRED			TOTAL						
			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)
<b>BLACK SWAN PROJECT</b>															
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
<b>LAKE JOHNSTON PROJECT</b>															
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
<b>WINDARRA PROJECT</b>															
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
South Windarra	2004	0.80%	772	0.98	8,000	-	-	-	772	0.98	8,000	NA	-	NA	-
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
<b>TOTAL</b>															
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

Note: totals may not sum exactly due to rounding. NA = information Not Available from reported resource model. The Indicated Mineral Resources are inclusive of those Mineral Resources modified to produce the Ore Reserves.

Black Swan Resource as at 22 July 2014 (see ASX announcement "Poseidon Announces Black Swan Mineral Resource" released 4<sup>th</sup> August 2014)

Silver Swan Resource as at 5 August 2019 (see ASX announcement "Silver Swan Resource Upgrade..." released 5<sup>th</sup> August 2019)

Maggie Hays Resource as at 17 March 2015 (see ASC announcement "50% Increase in Indicated Resources at Lake Johnston" released 17<sup>th</sup> March 2015)

Mt Windarra Resource as at 1 November 2014 (see ASX announcement "Poseidon Announces Revised Mt Windarra Resource" released 7<sup>th</sup> November 2014)

South Windarra and Cerberus Resource as at 30 April 2013 (see ASX announcement "Resource Increase of 25% at Windarra Nickel Project" released 1<sup>st</sup> December 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.

# Mineral Resource statement

**Table 2: Gold Tailings Project Mineral Resource Statement**

Gold Tailings Resources	JORC Compliance	Cut Off Grade	MINERAL RESOURCE CATEGORY								
			INDICATED			INFERRED			TOTAL		
			Tonnes (Kt)	Grade (g/t)	Au (oz)	Tonnes (Kt)	Grade (g/t)	Au (oz)	Tonnes (Kt)	Grade (g/t)	Au (oz)
<b>WINDARRA GOLD TAILINGS PROJECT</b>											
Gold Tailings	2004	NA	11,000	0.52	183,000	-	-	-	11,000	0.52	183,000
<b>TOTAL</b>											
Total Au Resources	2004		11,000	0.52	183,000	-	-	-	11,000	0.52	183,000

Note: totals may not sum exactly due to rounding.

Windarra Gold Tailings Resource as at 30 April 2013 (see ASX announcement "Windarra Definitive Feasibility Study Supports Low Cost, Long Life Nickel Operation" released 30<sup>th</sup> April 2013).

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 Project Ore Reserve Statement**

Nickel Sulphide Reserves	JORC Compliance	ORE RESERVE CATEGORY								
		PROBABLE								
		Tonnes (Kt)	Ni% Grade	Ni Metal (t)	Co% Grade	Co Metal (t)	Cu% Grade	Cu Metal (t)		
<b>SILVER SWAN PROJECT</b>										
Silver Swan Underground	2012	57	5.79	3,300	0.11	60	0.26	150		
Black Swan Open pit	2012	3,370	0.63	21,500	NA	NA	NA	NA		
<b>TOTAL</b>										
Total Ni Reserves	2012	3,427	0.72	24,800	0.11	60	0.26	150		

Note: Calculations have been rounded to the nearest 10,000 t of ore, 0.01 % Ni grade 100 t Ni metal and 10t of cobalt metal.

Co & Cu grades and metal content for Black Swan require additional modelling prior to estimation.

Silver Swan Underground Reserve as at 26 May 2017 (see ASX announcement "Silver Swan Definitive Feasibility Study" released 26<sup>th</sup> May 2017)

Black Swan Open Pit Reserve as at 5 November 2014 (see ASX announcement "Poseidon Announces Black Swan Ore Reserve" dated 5<sup>th</sup> November 2014).

The Company is aware that the 2019 upgrade to the Silver Swan Indicated Resource will materially affect the Silver Swan Reserve above which was based upon the 2015 Silver Swan Resource Estimate (refer to Table 1 above for the new Silver Swan Resource estimate). Such information is based on the information compiled by the Company's Geologists and the Competent Persons as listed below in the Competent Person Statements.

The Company is not aware of any 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.

# Competent persons statement

*The information in this report that relates to Exploration Results is based on, and fairly represents, information compiled and reviewed by Mr Steve Warriner, Chief Geologist, who is a full-time employee at 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 which relates to the Silver Swan Mineral Resource is based on, and fairly represents, information compiled by Mr Steve Warriner, Chief Geologist, who is 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 in this report which relates to the Silver Swan Ore Reserve 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 report which relates to the Lake Johnston Mineral Resource is based on, and fairly represents, information compiled by Mr Steve Warriner, Chief Geologist, who is 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 report that relates to Mineral Resources at the Windarra Nickel Project and Gold Tailings Project is based on, and fairly represents, information compiled by Mr Steve Warriner, Chief Geologist, who is a full-time employee at Poseidon Nickel, and is a Member of The Australian Institute of Geoscientists and Mr Ian Glacken who is a full time employee of Optiro Pty Ltd and is a Fellow of the Australasian Institute of Mining and Metallurgy. The Windarra Project contains Mineral Resources which are reported under JORC 2004 Guidelines as there has been no Material Change or Re-estimation of the Mineral Resource since the introduction of the JORC 2012 Codes. Future estimations will be completed to JORC 2012 Guidelines.*

*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 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

## **FORWARD LOOKING STATEMENT – INFERRED RESOURCE STATEMENTS:**

*The Company notes that an Inferred Resource has a lower level of confidence than an Indicated Resource and that the JORC Codes, 2012 advises that to be an Inferred Resource it is reasonable to expect that the majority of the Inferred Resource would be upgraded to an Indicated Resource with continued exploration. Based on advice from relevant competent Persons, the Company has a high degree of confidence that the Inferred Resource for the Silver Swan deposit will upgrade to an Indicated Resource with further exploration work.*

*The Company believes it has a reasonable basis for making the forward looking statement in this announcement, including with respect to any production targets, based on the information contained in this announcement and in particular, the JORC Code, 2012 Mineral Resource for Silver Swan as of May 2016, together with independent geotechnical studies, determination of production targets, mine design and scheduling, metallurgical testwork, external commodity price and exchange rate forecasts and worldwide operating cost data.*

## **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 Silver Swan underground mine.*