



Advancing the Duketon Nickel



ASX: DKM



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Competent Person Statement:

This announcement includes information extracted from the Company's previous ASX announcements, which are available to view on the Company's website (www.duketonmining.com.au), as follows:

- Rosie Mineral Resources ASX announcement dated 10 March 2022;
- Rosie Drill Core ASX announcement 2 December 2014;
- Rosie Long Section ASX announcement 6 March 2023;
- C2 Mineral Resources ASX announcement dated 12 December 2022;
- Rosie metallurgical results ASX announcements dated 8 July 2020 and 10 July 2020;
- Rosie Scoping Study production targets and forecast financial results derived from production targets ASX announcement dated 28 April 2021;
- C2 metallurgical results ASX announcement 5 September 2022;
- New Exploration Project Acquisition ASX announcement dated 28 April 2022;
- High Grade Nickel and up to 30g/t Palladium intersected ASX Announcement dated 6 February 2023
- Sulphides Intersected West of Rosie ASX Announcement dated 6 March 2023

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and, in the case of estimates of Mineral Resources or Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements 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 been materially modified from the original market announcements. In the case of the Rosie Scoping Study, the Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions underpinning the production target, or the financial information derived from the production target 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 been materially modified from the original market announcement.

Company Snapshot



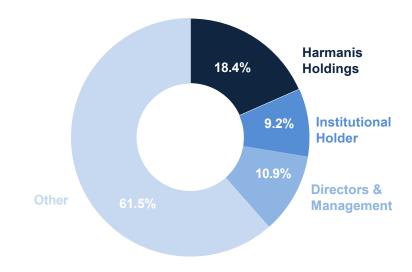
About Duketon Mining

Duketon Mining Limited is a Western Australia focused mineral resources exploration and development company with flagship nickel projects at Rosie and C2 which are situated in the North Eastern Goldfields of Western Australia, approx. 350km to the north east of Kalgoorlie.



Capital Structure / Enterprise Value				
ASX Code	DKM			
Shares on issue	122m			
Options on issue	11.6m			
Market capitalisation (as at 16/03/2023)	\$37.8m			
Cash (as at 31/12/22)	~\$18.2m			
Enterprise value	\$19.6m			

Shareholder Information - as at 20 March 2023



DKM Share Price Performance



Experienced Board and Management





SEAMUS CORNELIUS – Non-Executive Chairman

Mr Cornelius is an experienced international corporate lawyer and company director. He was a partner with a major international law firm from 2000 to 2010 and resided in China from 1993 until 2017. In 2010, Mr Cornelius commenced his public company career as company director and is currently a director and non-executive chairman of Buxton Resources Ltd since 29 November 2010 and Element 25 Ltd since 30 June 2011. Mr Cornelius has been a director of Danakali Ltd since 15 July 2014 and is currently the Executive Chairman. Mr Cornelius is also non-executive director of First Tin PLC since 7 April 2022.



STUART FOGARTY – Managing Director

Mr Fogarty has over 20 years of exploration experience with BHP Billiton and Western Mining Corporation, and prior to leaving he was BHP's Senior Exploration Manager for North and South America. Mr Fogarty has a very strong background in nickel and gold exploration, having commenced his career at Kambalda Nickel Operations in 1994. He has held senior roles with BHP including Senior Geoscientist for nickel exploration in the Leinster and Mt Keith region, Project Manager WA Nickel Brownfields and Regional Manager Australia — Asia where he was responsible for a \$100 million per annum exploration budget. Mr Fogarty is currently a non-executive director of ASX listed Buxton Resources Ltd since 15 March 2017.



HEATH HELLEWELL – Non-Executive Director

Mr Hellewell is an exploration geologist with over 20 years of experience in gold, base metals and diamond exploration predominantly in Australia and West Africa. Most recently, Mr Hellewell was the co-founding Executive Director of Doray Minerals Ltd (Doray), where he was responsible for the company's exploration and new business activities. Following the discovery of its Andy Well gold deposits in 2010, Doray was named "Gold Explorer of the Year" in 2011 by The Gold Mining Journal. In 2014 Mr Hellewell was the co-winner of the prestigious "Prospector of the Year" award, presented by the Association of Mining and Exploration Companies. Mr Hellewell was also part of the Independence Group NL team that identified and acquired the Tropicana project area, eventually leading to the discovery of the Tropicana and Havana gold deposits. Mr Hellewell is currently an independent Non-Executive Director of Core Lithium Ltd (formerly Core Exploration Ltd) since 15 September 2014 and Discovex Resources Ltd since 11 March 2021.

Investment Highlights





HIGH DEMAND FOR NICKEL

- Electric vehicle batteries
- Commodity for a clean future
- Class 1 nickel sources likely to demand a premium

POTENTIAL UPSIDE

- Exploration upside within Duketon Belt drilling and gpx underway
- Rosie & C2 open along strike and at depth

DEVELOPMENT OPTIONS UNDER CONSIDERATION

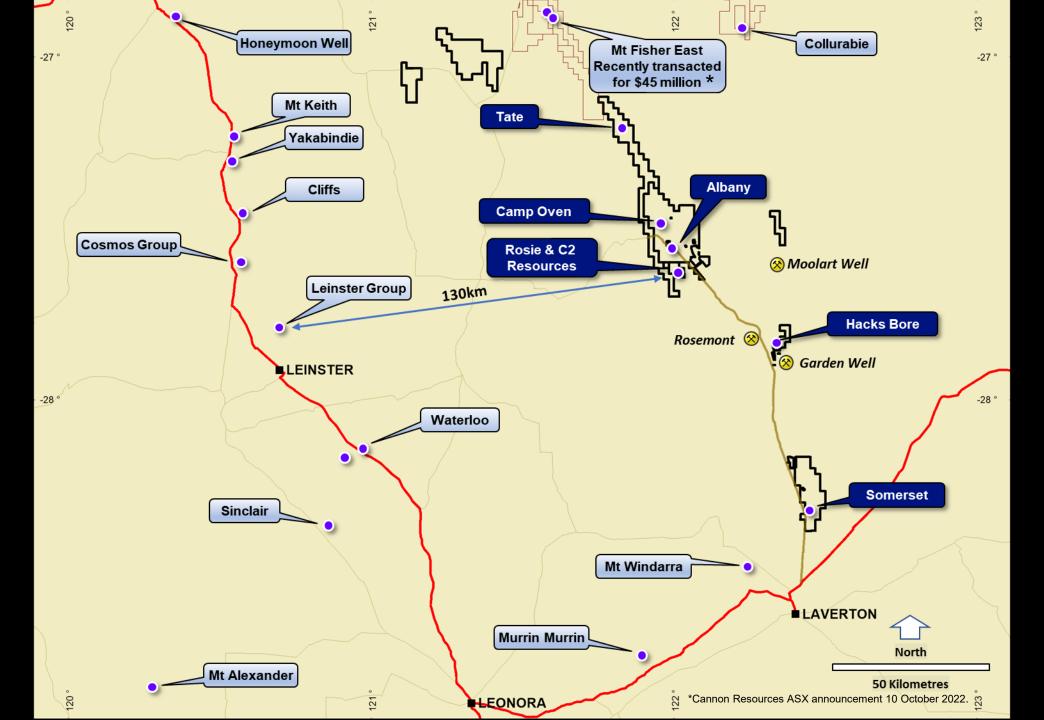
- Potential to toll treat mineralisation at nearby concentrators
- Produce nickel concentrate on site from a combined Rosie & C2

KNOWN NICKEL SULPHIDE ENDOWMENT

- Two resources
- Exploration potential for further discoveries

ATTRACTIVE VALUATION

- 100% owned assets
- Large and high-quality resource
- Located on granted mining tenement
- Not encumbered by either offtake agreements or royalties



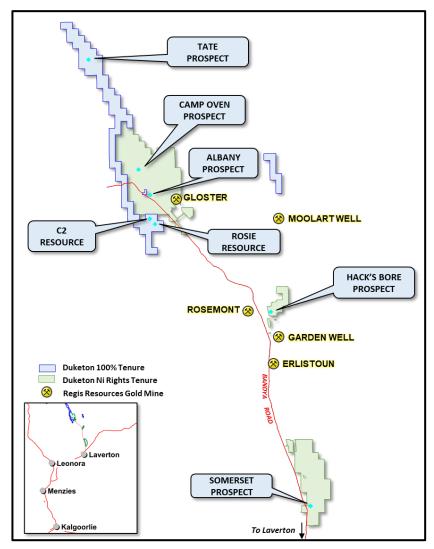
Strategic Location/Value Proposition



Large land position – multiple projects

- 102,500t of nickel metal in JORC resources
- 14,200t of copper metal in JORC resources
- 255koz PGE's in JORC resources
- Positive metallurgical results at Rosie and C2
- Positive scoping study at Rosie
- Access to most prospective tenure for nickel discovery
- Minimal holding cost
- Surety of mining tenure

A pipeline of opportunities



102kt Ni, 14kt Cu, 255koz PGE's & growing DUKETON MINING

Rosie Nickel Deposit

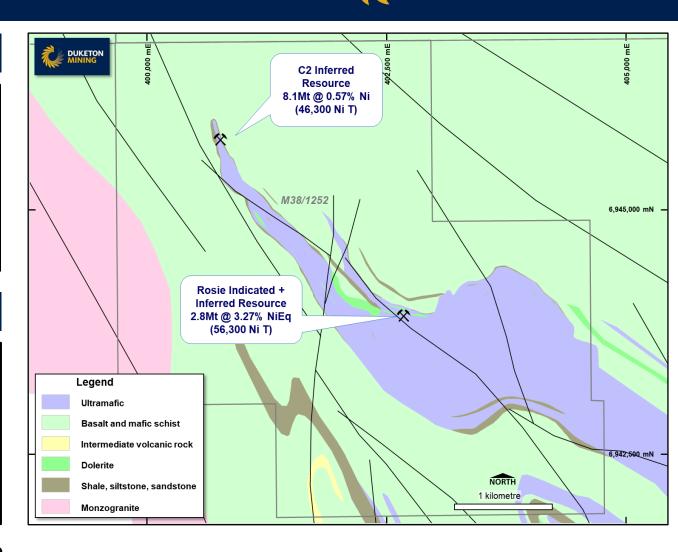
Mineral Resource Estimate 2022

- 56,300t nickel,
- 11,800t copper,
- 229,000oz PGE's

C2 Nickel Deposit

Mineral Resource Estimate 2022

- 46,300t nickel,
- 2,340t copper,
- 25,680oz PGE's



Both deposits open at depth and along strike

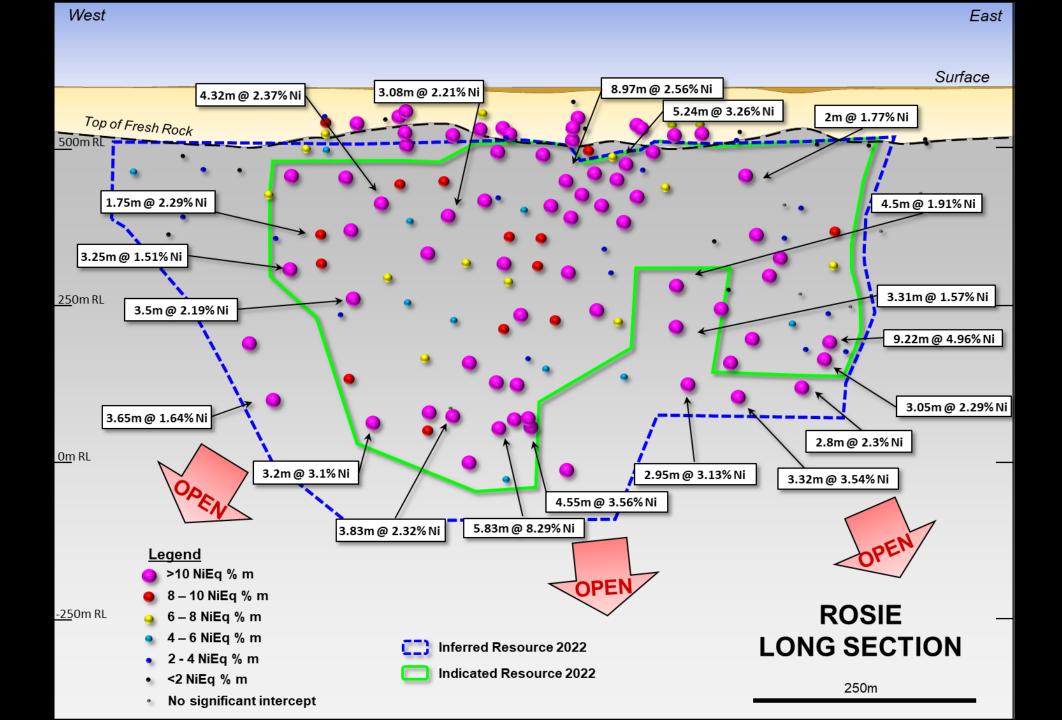
Positive Scoping – Platform for Growth



Confirms the viability of a mining, trucking & toll treating operation assuming an 8-year mine life

- Ni price of US\$8/lb (range US\$7.50/lb to US\$8.50/lb)
- NPV5 of ~\$161M (range \$56M to \$204M)
- IRR of ~54% (range 21% to 66%)
- Pre-tax cashflow of ~\$223M (range \$91M to \$278M)
- Pre-production capital cost of ~\$18M
- Simple decline and underground mine minimal surface infrastructure
- Annual production of approx. 315kt of ore at 2.1% NiEq

Upside – plus C2 with concentrator onsite, Ni and PGE in transition zone, exploration



Rosie Drill Core



High Tenor, Simple Mineralogy, High PGE's

- 9.22m @ 4.96% Ni, 0.41% Cu & 2.41 g/t Pt+Pd
 including 5.65m @ 7.1%Ni, 0.5%Cu & 3.8g/t Pt+Pd
- 2.95m @ 3.13% Ni 0.40% Cu & 3.74g/t PGEs



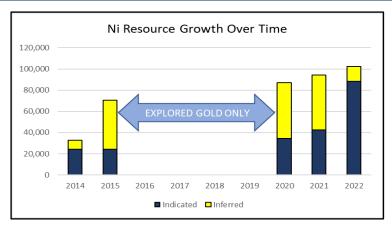
Multiple thick high grade zones.

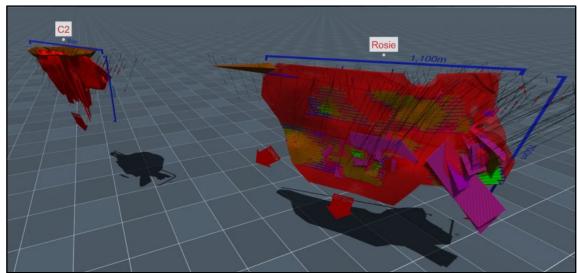


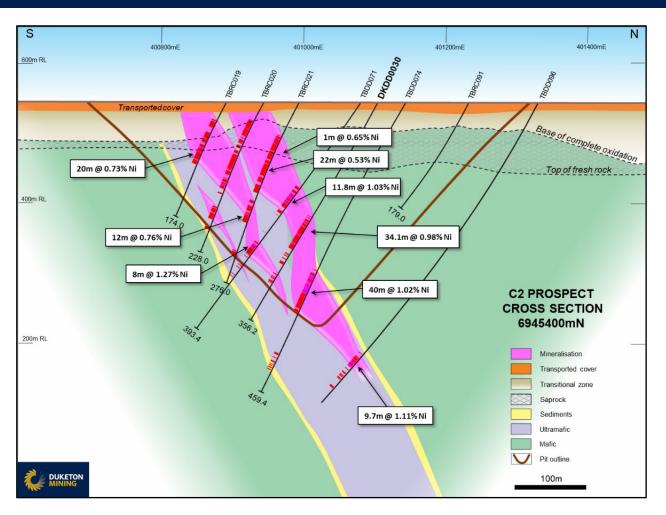
C2 Resource



Large Tonnage & Continual Growth







Positive Met. Testwork



Rosie Nickel Deposit

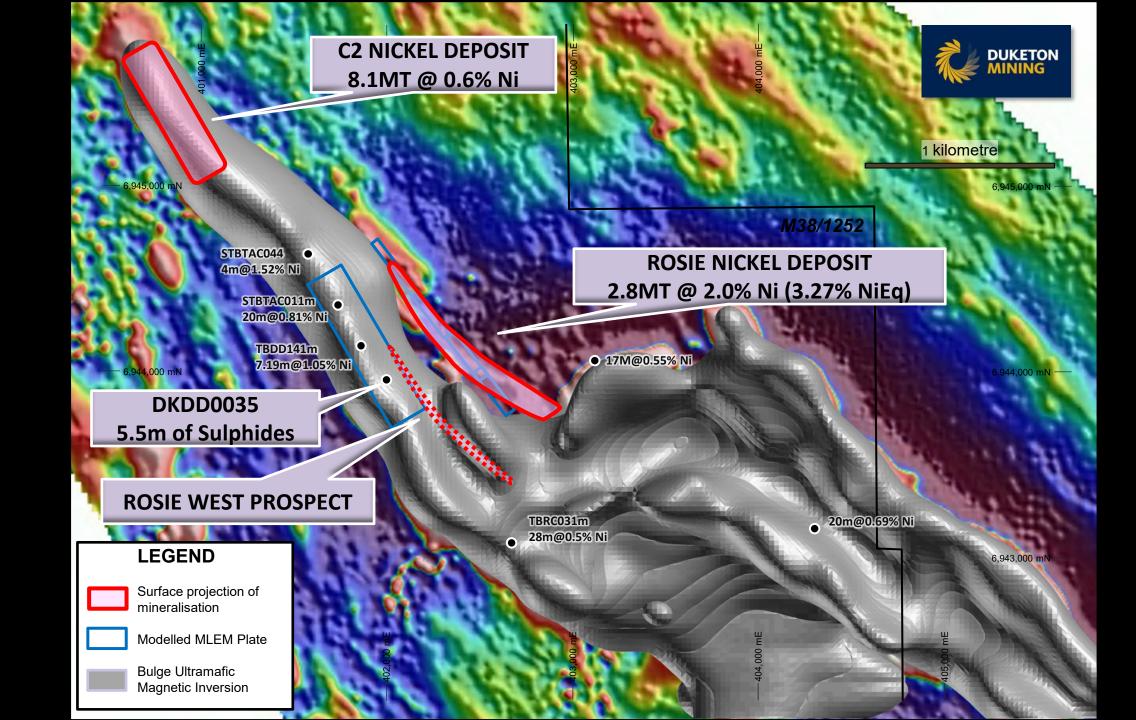
- Ni recovery up to 97%
- Nickel conc. grade 16% Ni and 7g/t total PGE's from massive ore (conc. Grade up to 22%)
- Bulk conc. grade 15% (Ni+Cu) and 12g/t total PGE's from upper zone
- High Fe:MgO 8-64:1
- PGE's recoverable by gravity >8g/t total PGE's optionalit

C2 Nickel Deposit

- C2 responds well to conventional flotation saleable concentrate
- Nickel recovery as high as 77.3% to a saleable grade concentrate
- Fe:MgO 12-20:1
- Concentrate grades range from 11-18% Ni

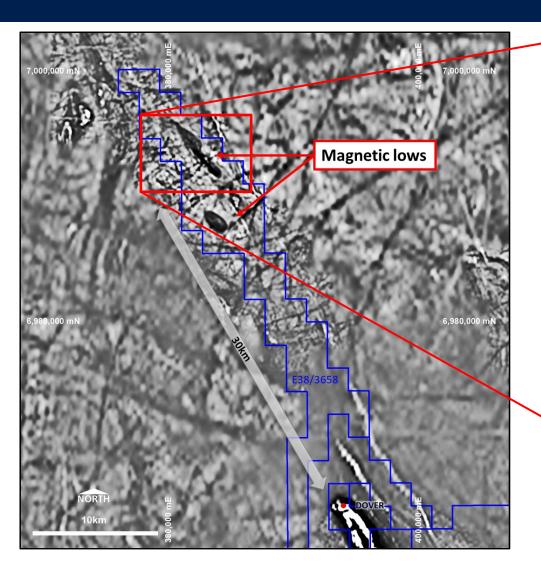


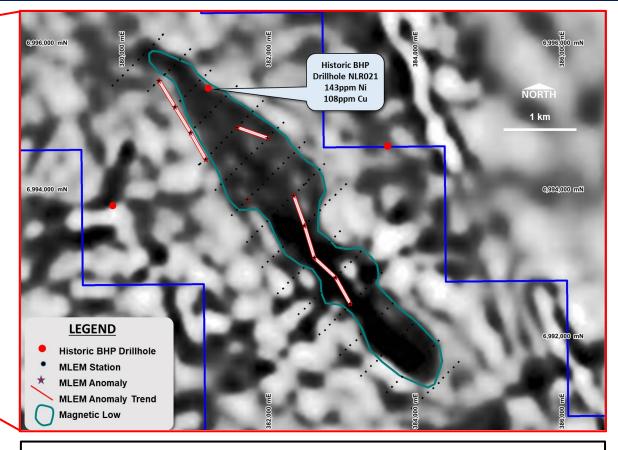




Tate – Mafic Intrusive Model



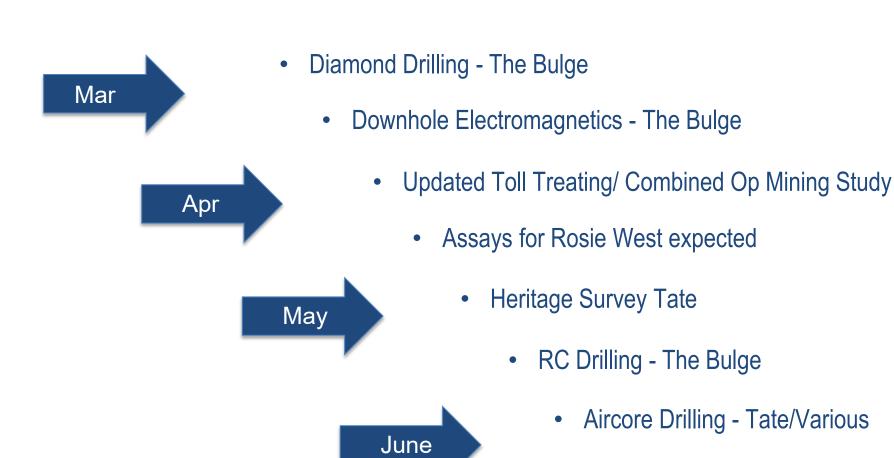




- Magnetics show interpreted intrusives with remnant magnetism (likely to be late in time)
- 8m of transported cover
- Historic regional AC drilling (BHP) intersected mafic rocks

Timeline – Upcoming Activity





Assays for Rosie drillholes expected

Concluding Remarks





MINING STUDY

- Study being refined based on updated resource models
- Assessing standalone concentrator, Rosie + C2

EXPLORATION

- Diamond Drilling underway
- RC drilling scheduled

CORPORATE

- Cash (+ liquids) balance of ~\$18.2M
- Market Capitalisation \$37.8M
- Enterprise Value \$19.6M

LEVERAGED TO DEVELOPMENT & DISCOVERY



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Appendix 1 : Duketon Nickel Resources



Rosie Nickel Resource >1% NiEq							
Classification	Sulphide	Tonnes	Ni (%)	Cu (%)	Co (ppm)	Total PGEs (g/t)	NiEq (%)
Indicated	Pentlandite	1,191,555	2.4	0.42	642	2.7	3.76
	Violarite	820,999	1.7	0.39	504	2.5	2.75
	Sub-Total	2,012,553	2.1	0.41	585	2.6	3.35
Inferred	Pentlandite	694,751	1.8	0.48	580	2.5	3.13
	Violarite	66,179	1.5	0.42	442	1.7	2.36
	Sub-Total	760,930	1.8	0.48	568	2.4	3.06
Total	All	2,773,483	2.0	0.43	580	2.6	3.27

Table 1. Rosie Mineral Resource Grade

		Contained Metal			
Classification	Ore Type	Ni (t)	Cu (t)	Co (t)	Total PGEs (oz)
Indicated	Pentlandite	28,524	4,978	764	104,868
	Violarite	13,966	3,230	414	64,869
	Sub-Total	42,490	8,208	1,178	169,737
Inferred	Pentlandite	12,786	3,337	403	55,740
	Violarite	987	279	29	3,551
	Sub-Total	13,774	3,616	432	59,291
	Total	56,264	11,824	1,610	229,028

Table 2. Rosie Mineral Resource Contained Metal

Appendix 1: Duketon Nickel Resources



C2 Nickel Resource >0.4%Ni						
Classification	Tonnes	Ni (%)	Cu (%)	Pd (ppb)	Pt (ppb)	S (%)
Indicated	7,955,751	0.57	0.03	56.7	42.8	1.7
Inferred	107,790	0.44	0.01	34.7	31.4	0.5
Total	8,063,541	0.57	0.03	56.5	42.7	1.7

Table 3. C2 Mineral Resource Grade

Resource Category	Tonnes (kt)	Ni%	Ni tonnes
Indicated	7,955	0.58	45,790
Inferred	108	0.44	474
TOTAL	8,063	0.57	46,263

Table 4. C2 Mineral Resource Contained Metal

Combined Metal Inventory, The Bulge Area					
Deposit Ni tonnes Cu tonnes PGE oz					
Rosie	56,264	11,824	229,028		
C2	46,263	2,339	25,684		
TOTAL	102,527	14,163	254,712		

Table 5. Combined Metal Inventory