

3	28	79	55	27
Li	Ni	Au	Cs	Co
6.941	58.69	196.967	132.905	58.933



Targeting Key Global Demand-driven Commodities

Investor Presentation
June 2017

David Crook
Managing Director

ASX: PIO



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Company Objectives

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Develop Sinclair Zone Pollucite (Caesium) Resource during 2017: -

Which will provide funds to.....

- Pioneer Dome WA: - Drill Lithium (Spodumene and Lepidolite) Targets:
- Mavis Lake, Raleigh, Canada: - Drill Lithium (Spodumene) Targets:
- Blair Dome / Golden Ridge: - Consider our Cobalt strategy:

In Addition.....

- Engage external funding partnerships: Acra Gold JV (WA) Northern Star (ASX: NST)

Corporate Overview



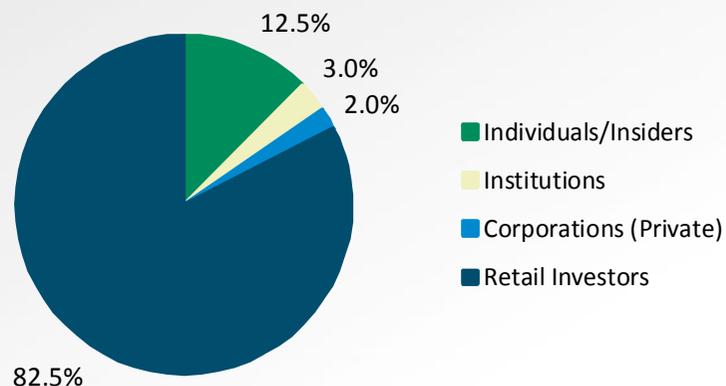
Capital Structure

Share Price (10 May 2017)	\$0.017
Shares Outstanding (m)	1,037.7
Market Capitalisation (\$m)	\$17.6
Cash (\$m) (end of March)	\$3.4
Debt (\$m)	0.0
Options Outstanding (listed/unlisted(m))	44.3/55.3

Board of Directors

Craig McGown	Non-Executive Chairman
David Crook	Managing Director
Allan Trench	Non-Executive Director
Wayne Spilsbury	Non-Executive Director

Shareholder Analysis



Top 20 Ownership: 16.5%

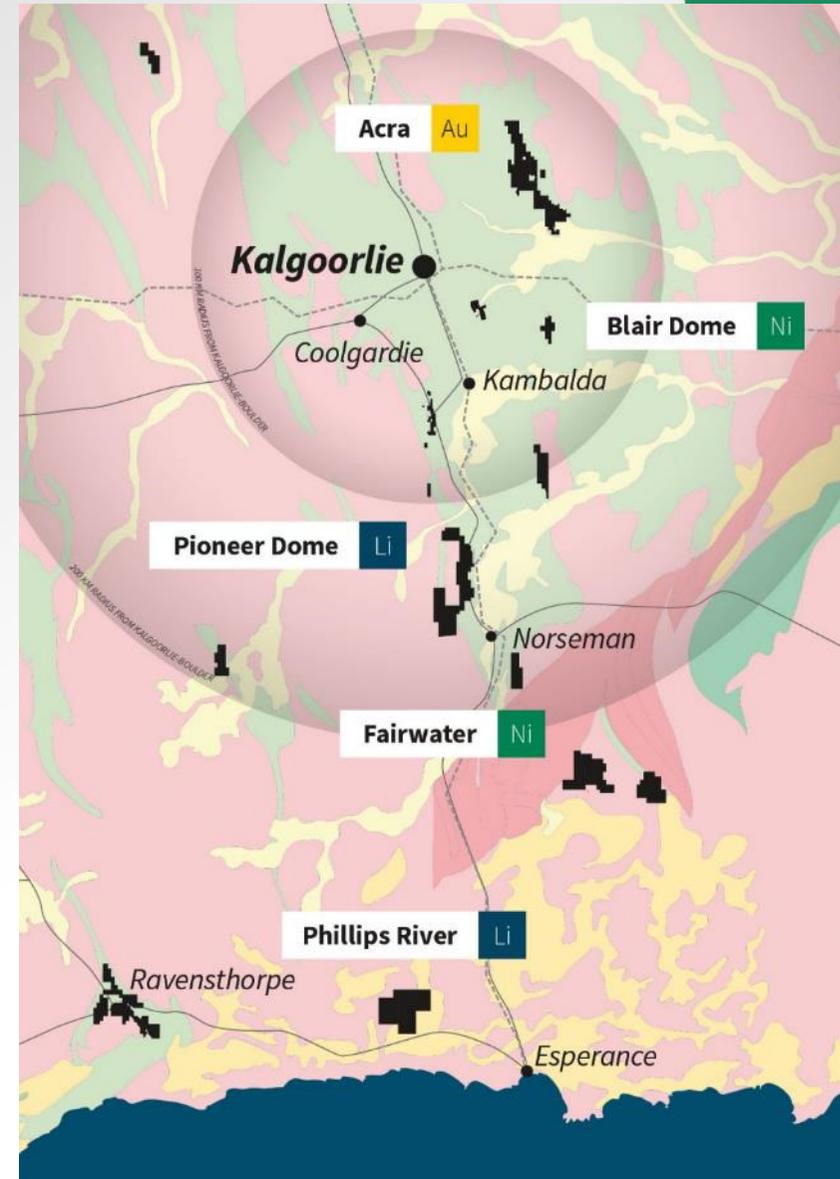
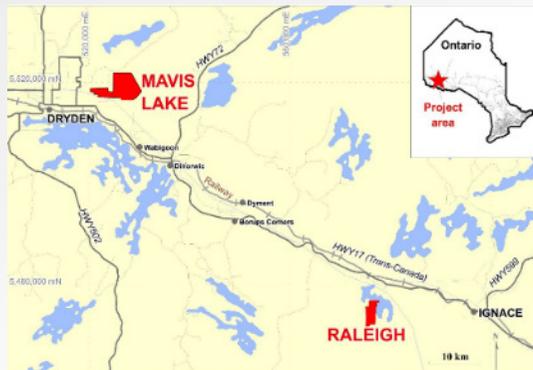
12 Month Share Price chart



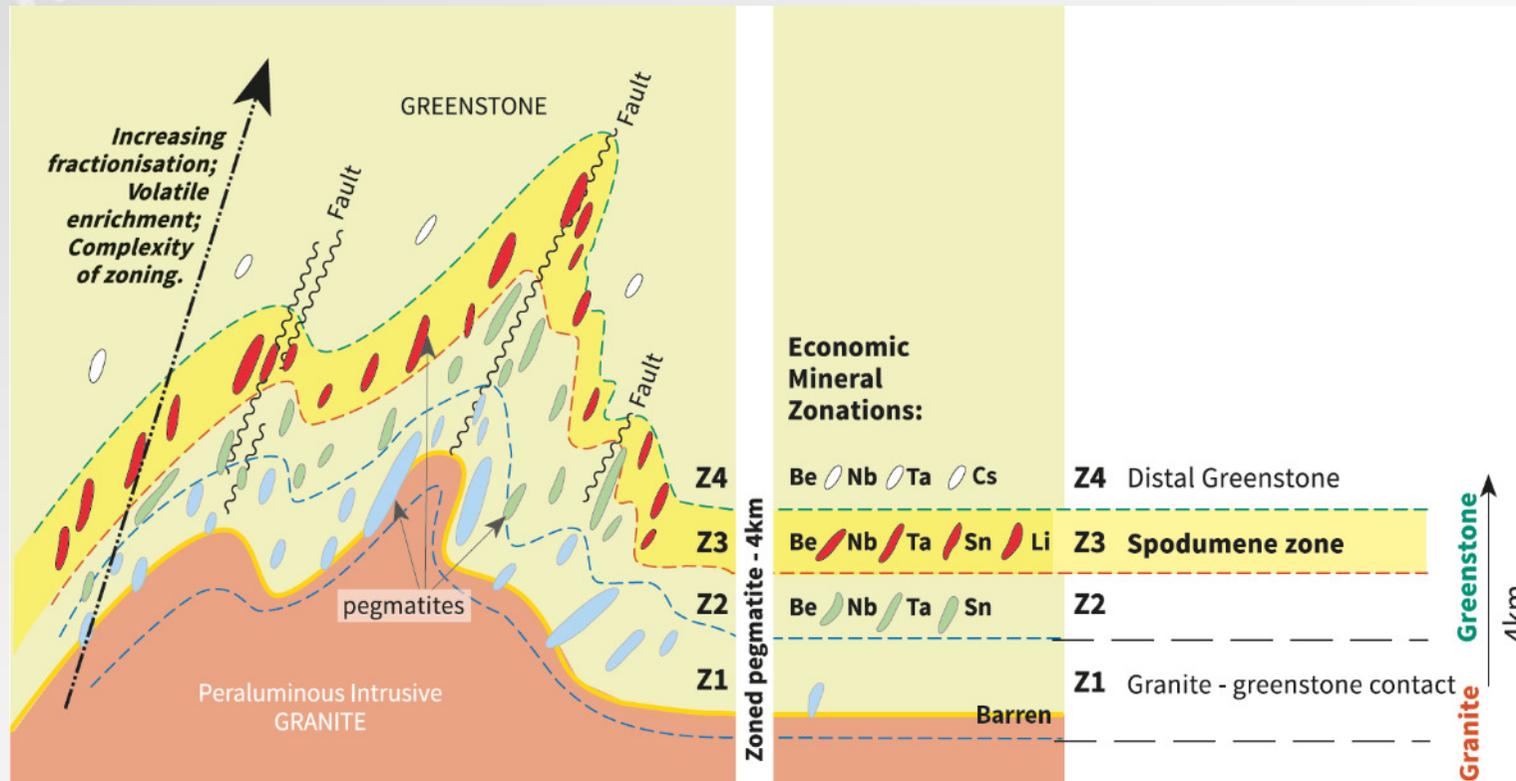
Mechanism

Key Assets Overview

Project	Location	Commodity	Ownership	Status
Pioneer Dome	Eastern Goldfields	Caesium	100%	Mine Plan in development
Pioneer Dome	Eastern Goldfields	Lithium, Tantalum	100%	Widespread lepidolite Spodumene indications Tantalum indications
Mavis Raleigh	Ontario	Lithium	Earning 80%	Spodumene intersected in Pioneer Drilling
Blair Dome	Eastern Goldfields	Cobalt/NiS	100%	Recently recognised prospectivity for Cobalt
Acra	Kalgoorlie	Gold	80%	NST farming-in to project (up to 75%)



First, some geology: Zonation of Complex LCT Pegmatites





GP2:

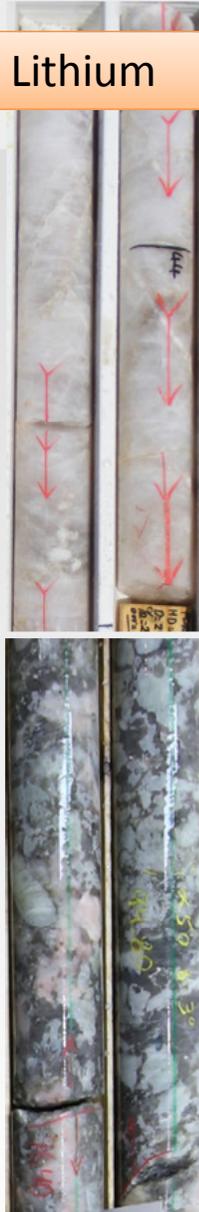
Wall zone
Plag - quartz



GP4:

Lower

Lithium



GP5:

Li-Al silicates



GP6:

K-Feldspar



GP7:

Quartz



Caesium

GP8:

Pollucite



Lithium
Rubidium

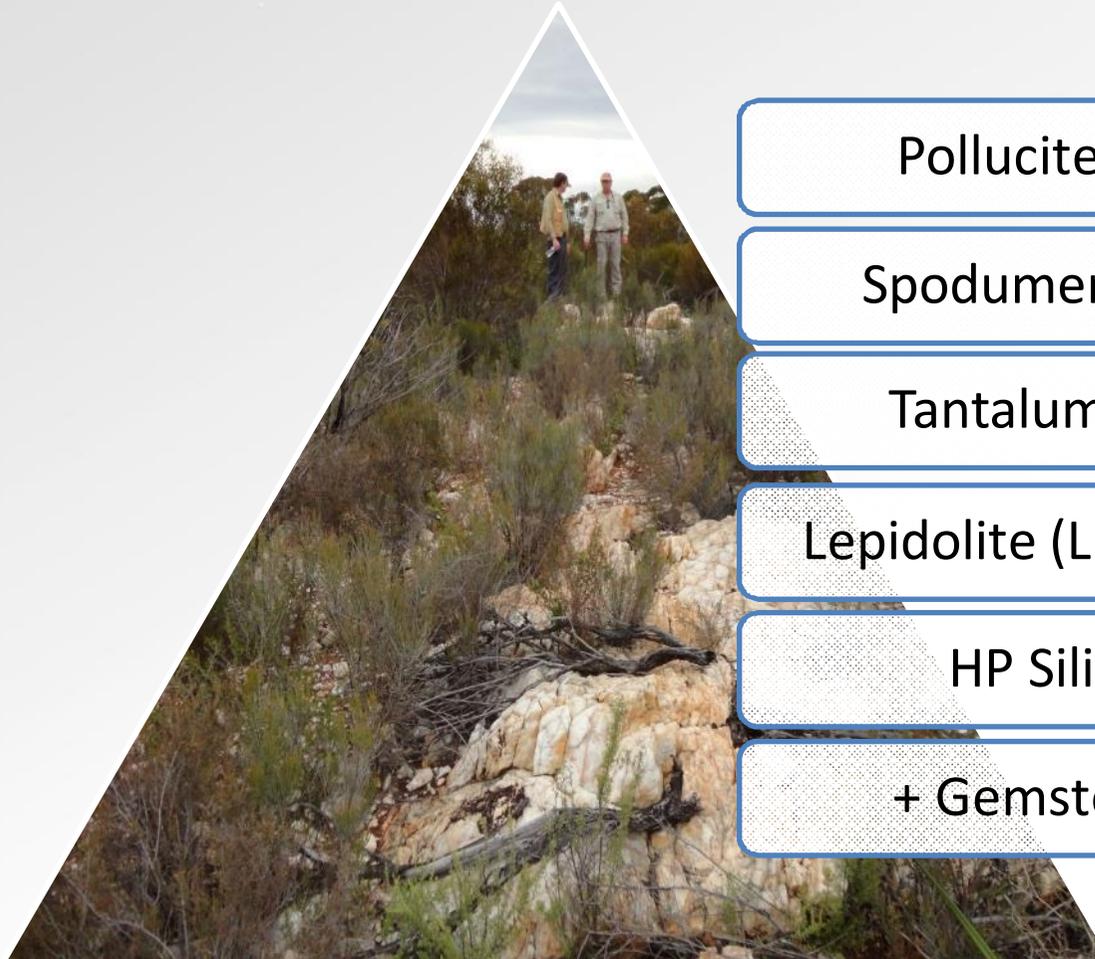
GP9:

Lepidolite

Intermediate Zones

Highly Fractionated Core

This gives us a list of Saleable Products



Pollucite (Cs)

Spodumene (Li)

Tantalum (Ta)

Lepidolite (Li, Cs, Rb)

HP Silica

+ Gemstones

Pollucite

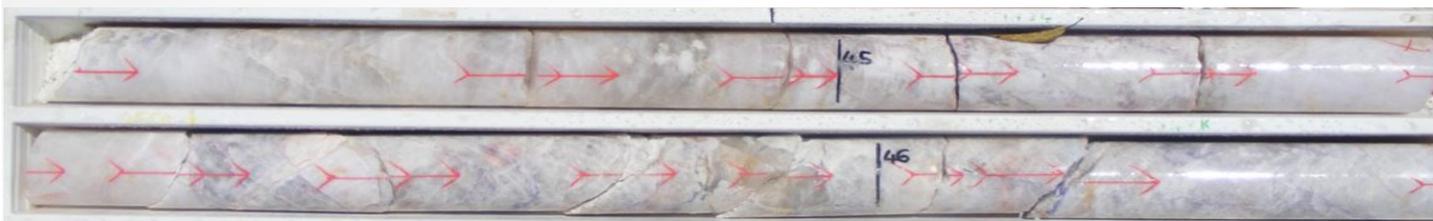
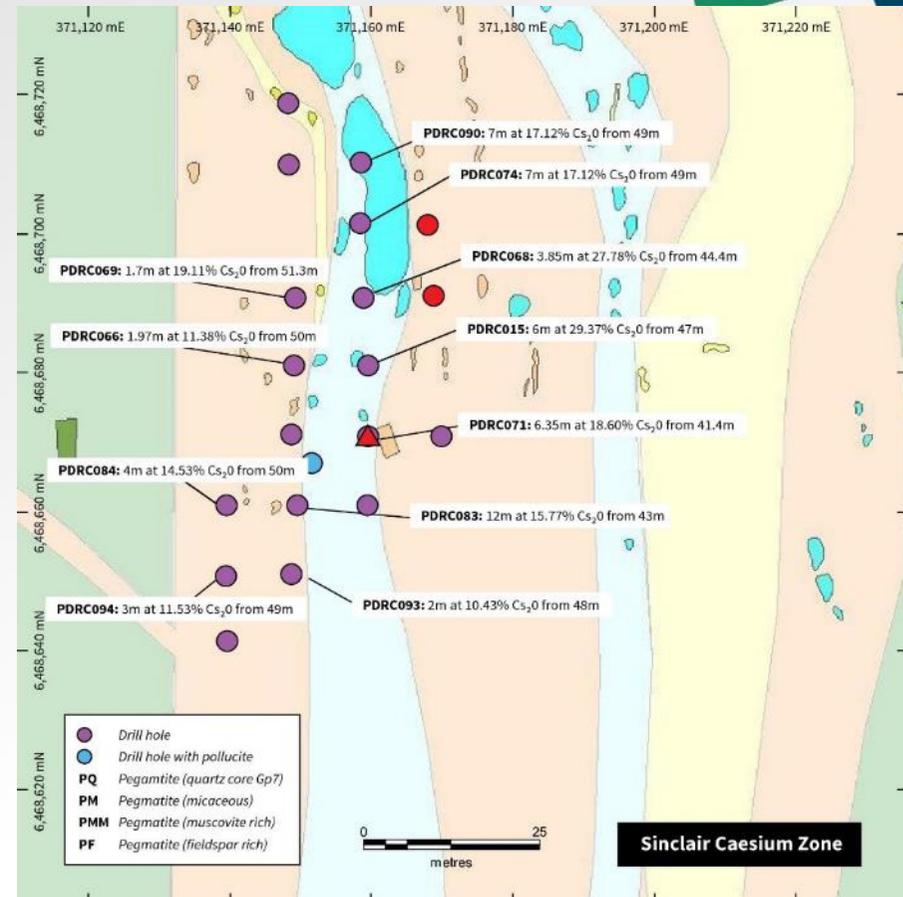
The Sinclair Zone is Australia's First Caesium Resource



- Discovered in October 2016
- Measured Mineral Resource of **10,500t pollucite grading 17.1% Cs₂O**

This makes it the World's 3rd largest known pollucite deposit (pre-depletion of others)

- Pollucite is rare and supply very constrained
- Mining studies already commenced and 5,000t bulk sample met test-work in 2H 2017
- Negotiations to secure offtake with leading global caesium users progressing well



Caesium Formate

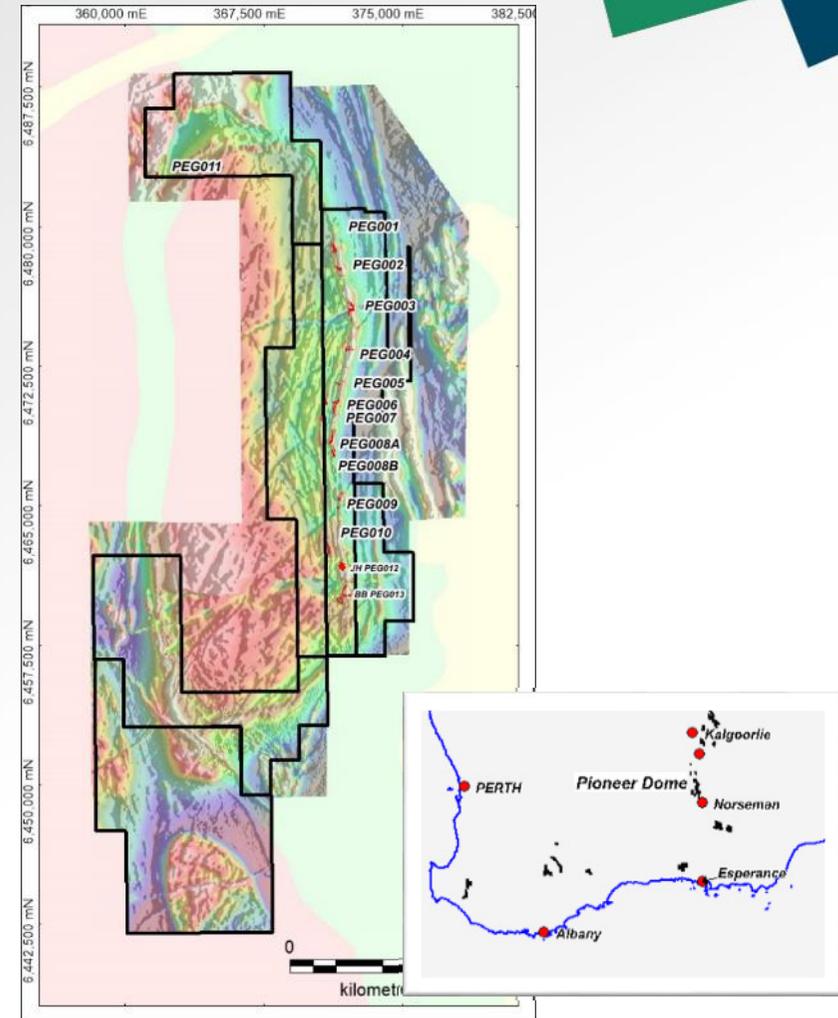
- Caesium Formate (CsFm) brine:
 - lubricant in high temperature/high pressure oil and gas drilling,
 - Ensures faster completion times and
 - higher production rates
- The two main producers of Pollucite:
 - TANCO mine, CABOT Canada, produces sufficient ore to generate approximately 8,400bbl CsFm and a lesser amount of Cs chemicals
 - Bikita Mine in Zimbabwe (sporadic, and supplies the Cs chemical market)
- CABOT Specialty Fluids:
 - 2010-2014 (5 years) EBITDA averages US\$37 million, or \$312 million between 2004 and 2016
 - CsFm rented to oil companies including Shell, Total, Statoil, ExxonMobil and BP, used in 30 wells per year (2008-2009)



Lithium

19 lithium targets identified and prioritised

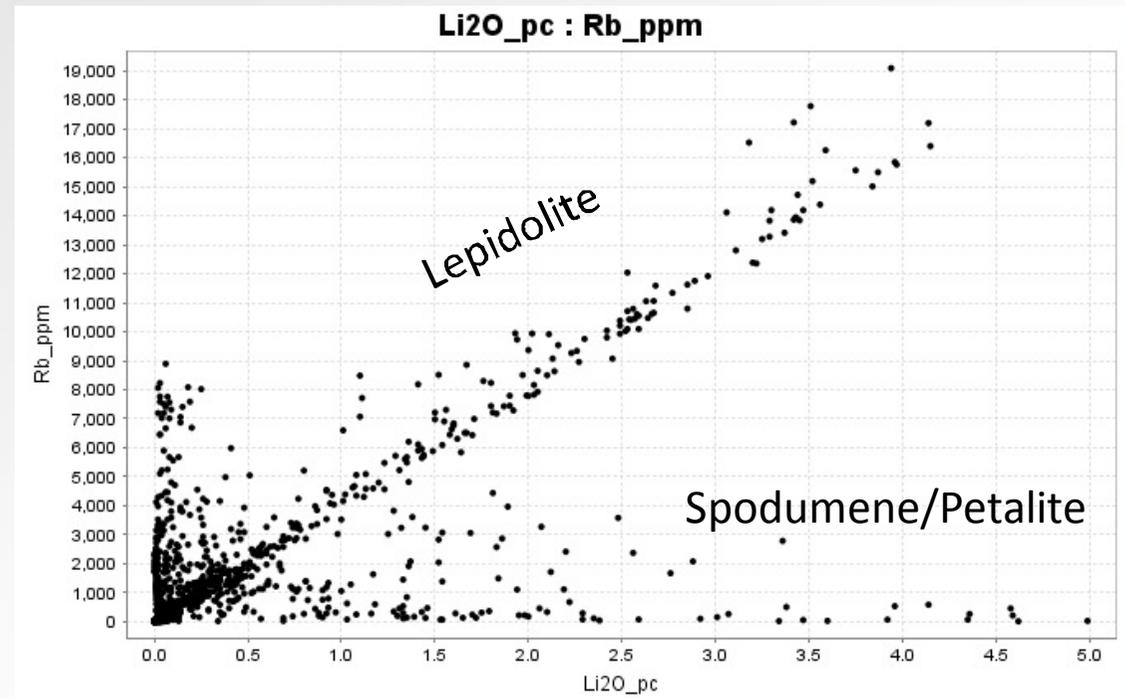
- LCT Pegmatites recognised mid 2016.
- **Contains a globally significant pollucite deposit**
- Lithium (**Spodumene or Petalite**) intersected in drilling: Conventional lithium exploration model to be followed
- **Lepidolite** widespread
 - PEG009 Farm-in agreement with Lepidico (ASX: LPD) **Gives L-Max® exposure**
 - Much Chinese lithium derived from lepidolite
- Key infrastructure in place with road, rail, gas and water all passing through the tenements



Lithium

Lithium Alumina-silicates (Spodumene/petalite)

- **PDR067: 11m at 2.63% Li₂O from 44m**
- PDR085: 6m at 3.66% Li₂O from 47m
- PDR102: 6m at 1.16% Li₂O from 30m
- PDR059: 3m at 2.85% Li₂O from 38m
- PDR076: 5m at 2.22% Li₂O from 47m
- More indicated in recent drilling*



Lithium cont.

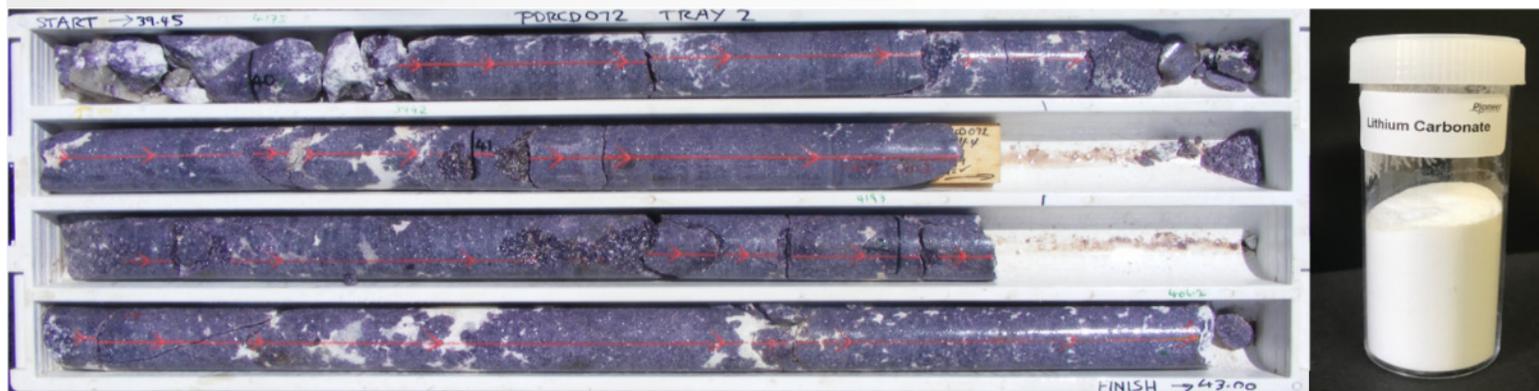
Lepidolite Exploration

Adjacent to the Sinclair Caesium Zone:

- PDRC070: 12m at 2.22% Li₂O from 44m
- PDRC073: 13m at 2.13% Li₂O from 39m
- PDRC072: 8.65m at 3.01% Li₂O from 40m
- PDRC079: 14m at 2.32% Li₂O from 46m
- PDRC090: 8m at 2.62% Li₂O from 51m
- PDRC091: 13m at 2.03% Li₂O from 55m
- PDRC095: 6m at 2.95% Li₂O from 49m

Lepidolite Development Strategy

- **Lepidico** can earn 75% interest in PEG009 only
- Pioneer retains non-lepidolite rights
- JV covers 2% of the Pioneer Dome project area, and
- provides exposure to encouraging L-Max[®] technology – a lepidolite treatment solution

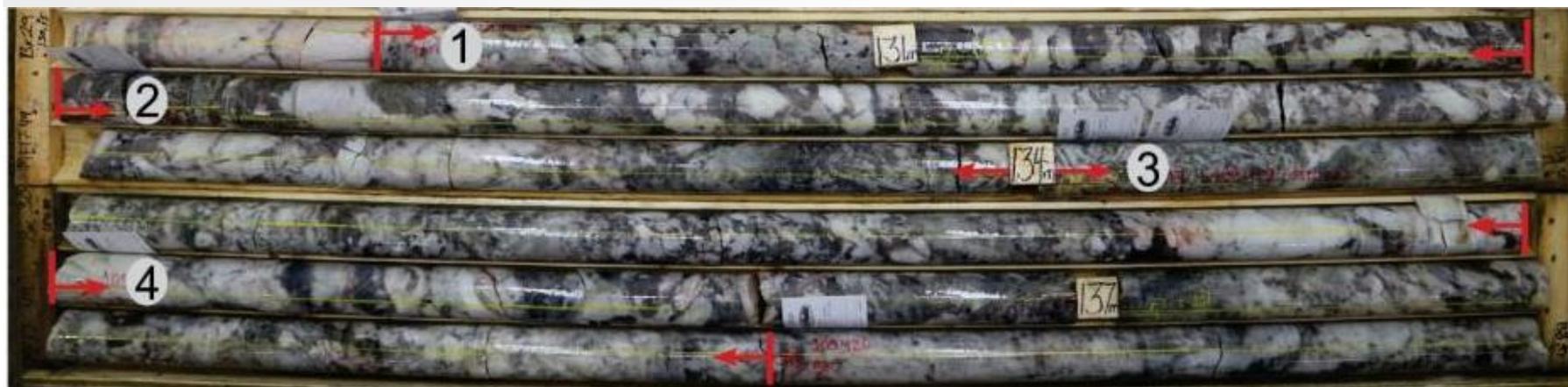
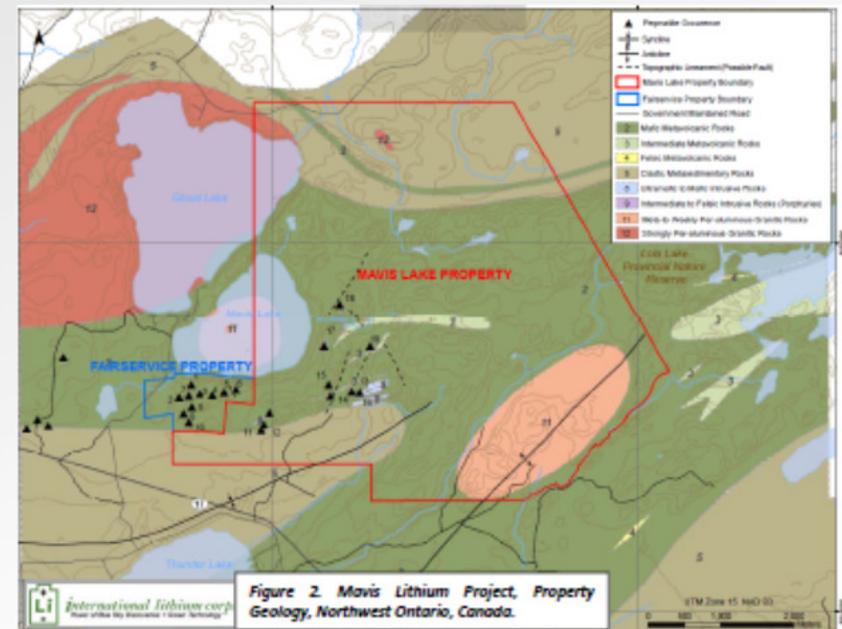


Lithium

Mavis Lake Project, Canada. Spodumene.

Project Details

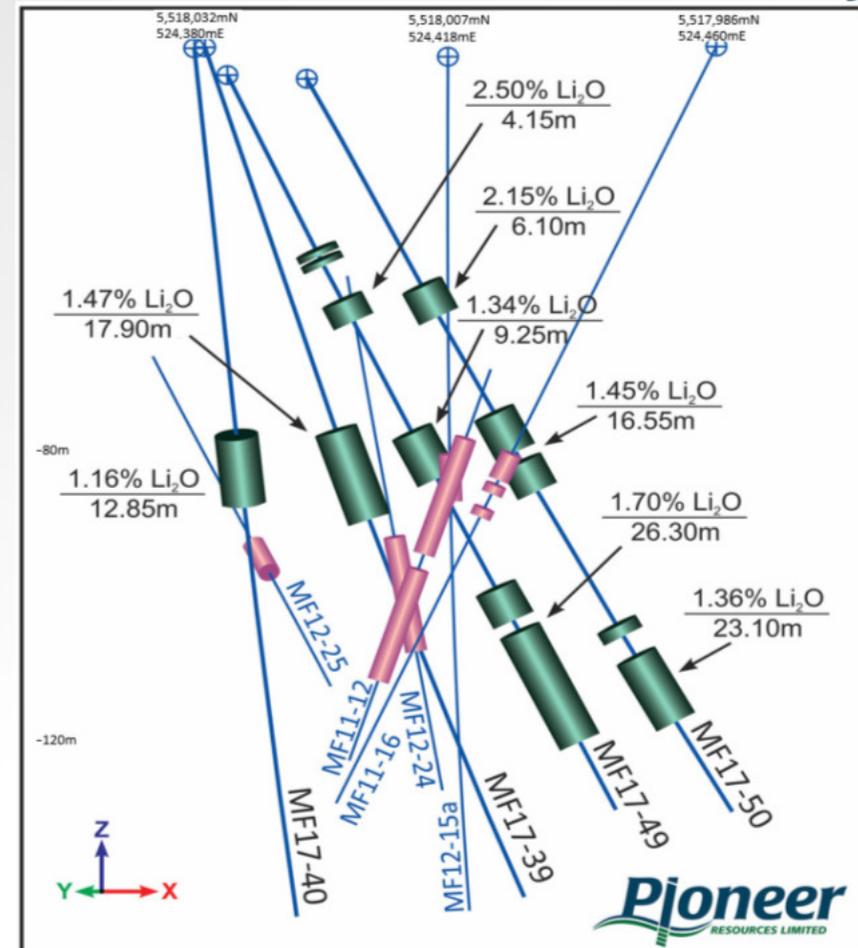
- PIO earning up to 80% ownership in the project from International Lithium Corp. (TSXV: ILC)
- Low geological risk – most pegmatites have spodumene mineralisation
- Project tenements are adjacent to the Trans Canadian highway and rail



Lithium Drilling: Spodumene

2017 Drilling Results: 3 sheets of pegmatite identified

- MF17-39: 17.90m at 1.47% from 80.00m
- MF17-40: 12.85m at 1.16% from 80.05m;
- MF17-49: 26.30m at 1.70% from 111.9m including 7.70m at 2.97% from 130.5m
- MF17-50: 16.55m at 1.45% from 74.55m and 23.10m at 1.36% from 122.00m



Pollucite for Near-Term Cash Lithium to Grow the Company



Company	Market Cap
Argonaut	\$ 6
Venus	\$ 8
International Lithium (TSX)	\$ 10
Ardiden	\$ 13
Pioneer	\$ 19
Metalicity	\$ 20
Dakota	\$ 21
Core	\$ 24
Lithium	\$ 28
Neo Metals	\$ 151
Kidman	\$ 209
Altura	\$ 211
Pilbara	\$ 501
Orocobre	\$ 794

Other Drivers

Cobalt – Blair Dome

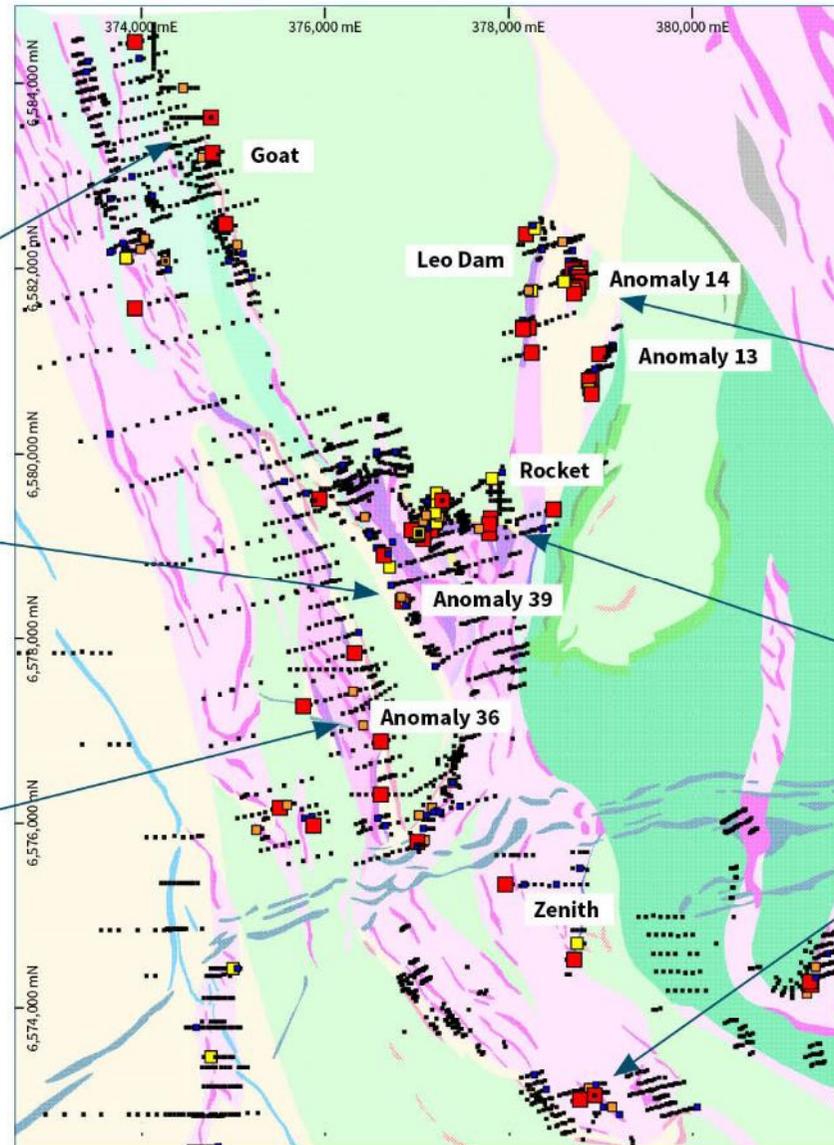
Prospective for cobalt which has been detected in previous drilling



AMBR0059: 5m at 3050ppm from 15m
 GOC1274: 8m at 1830ppm from 10m
 GOD0290: 8m at 2540ppm from 16m
 GOR0020: 5m at 2800ppm from 0m
 GOR0074: 8m at 1470ppm from 34m

GOR0884: 8m at 1675ppm from 32m
 GRB0115: 4m at 2222ppm from 40m
 GRB0132: 9m at 1758ppm from 30m
 GRB0168: 3m at 4644ppm from 43m

GOD0324: 8m at 1443ppm from 30m
 GOD0341: 6m at 1540ppm from 38m
 GOD0346: 8m at 2803ppm from 36m



GOR0388: 12m at 1393ppm from 36m
 GOR0392: 10m at 1410ppm from 32m
 GOR0396: 6m at 2483ppm from 38m
 GOR0404: 30m at 1468ppm from 36m
 GOR0405: 10m at 1710ppm from 40m
 GOR0409: 6m at 2750ppm from 18m
 GOR0413: 6m at 3083ppm from 18m
 GOR0413: 8m at 1900ppm from 42m
 GOR0414: 20m at 1271ppm from 40m
 GOR0418: 18m at 1911ppm from 42m
 GOR0451: 10m at 2640ppm from 48m
 GOR0460: 16m at 1541ppm from 16m
 GOR0461: 12m at 1492ppm from 42m
 GOR0474: 12m at 1558ppm from 44m
 GOR1107: 8m at 1978ppm from 48m
 GOR1118: 2m at 4150ppm from 52m
 GRA0227: 8m at 1792ppm from 45m
 GRA0233: 10m at 1530ppm from 38m
 GRA0257: 10m at 1115ppm from 49m
 GRA0275: 11m at 1175ppm from 56m

BLD053: 12m at 2657ppm from 106m
 GRA0010: 11m at 1039ppm from 35m
 GRA0010: 9m at 3732ppm from 20m
 GRAC906: 10m at 2571ppm from 34m
 GRAC949: 14m at 2107ppm from 43m

AMBR0386: 5m at 6018ppm from 40m
 GOC1200: 10m at 2288ppm from 26m
 GOD0471: 4m at 3000ppm from 26m
 GRA0093: 11m at 1179ppm from 33m
 GRA0119: 5m at 5140ppm from 38m
 GRA0142: 10m at 1152ppm from 28m
 GRA0173: 11m at 1615ppm from 32m

How Does it Rate?

Rocket Prospect

BLD053: 12m at 2657ppm Co from 106m
 GRAC949: 14m at 2107ppm Co from 43m
 GRAC906: 10m at 2571ppm Co from 34m

Anomaly 14 Prospect

GOR0451: 10m at 2640ppm Co from 48m
 GOR0404: 30m at 1468ppm Co from 36m*
 GOR0409: 6m at 2750ppm Co from 18m
 GOR0413: 6m at 3083ppm Co from 18m*
 GOR0418: 18m at 1911ppm Co from 42m*

Skidman Trend

AMBR0059: 5m at 3050ppm Co from 15m
 GOD0290: 8m at 2540ppm Co from 16m

Regional

GOD0346: 8m at 2803ppm Co from 36m
 AMBR0386: 5m at 6018ppm Co from 40m
 GRA0118: 5m at 5140ppm Co from 38m

Comparable Cobalt Projects

Reported Lateritic Cobalt Deposit Size			
Company	Tonnes	Grade*	Location
	(mt)	Co	
Ardea Inc	805	500 ppm	Kalgoorlie, WA
	50	1200 ppm	
CleanTeq	109	1000 ppm	Syerston, NSW
GME	108	600 ppm	Leonora, WA
Conico	32	1200 ppm	Norseman, WA
Platina	9	1500 ppm	Owendale, NSW
Augur	16	500 ppm	Homeville, NSW
Cougar	10	700 ppm	Leonora, WA

Grades appropriately rounded from reported Co %

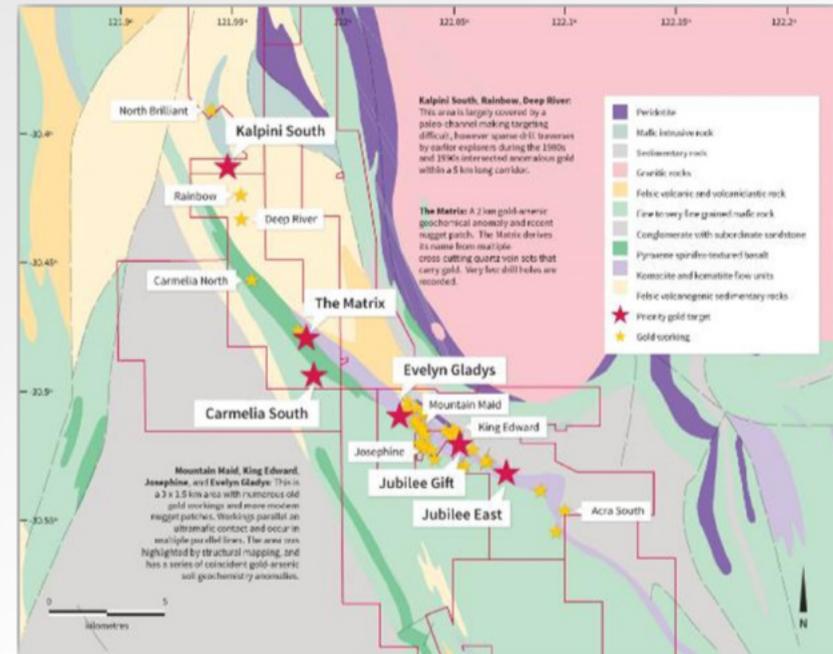
Acra Gold



Project Details

- PIO ownership 80%
 - Farm-out agreement with Northern Star (ASX: NST)
 - \$3m spend within 3 years will increase NST ownership to 75%
 - Pioneer free carried until the JV secures DMP approval of a mining proposal
- Tenement area covers 370 km²
- Gold workings, nugget patches and soil geochemistry indicates a gold target zone at least 20km long
- Drilling at targets at Acra South, Jubilee Gift and Jubilee East are the main focus for advanced stage exploration
- Simultaneous early stage, intensive regional exploration campaign on E27/548

Tenement Map





To Finish

Summary

- Exposure to a number of key global demand driven commodities
- New discovery of high-value caesium at Pioneer Dome is world's 3rd largest with potential to significant grow
- Pioneer Dome lithium potential also confirmed through recent high grade drill intersections and successful results from Lepidico's L-Max[®] technology
- Maiden drilling programme completed at Mavis Lake in Canada with significant lithium spodumene intersections
- The company is actively establishing an exploration strategy for its cobalt at the Golden Ridge Project
- NST progressing exploration at Pioneer's ACRA project through farm-in agreement

Significant portfolio of highly prospective assets ... some which could be game-changers for Pioneer

Develop Sinclair Zone Pollucite (Caesium) Resource during 2017: -

Which will provide funds to.....

- Pioneer Dome WA: - Drill Lithium (Spodumene and Lepidolite) Targets:
- Mavis Lake, Raleigh, Canada: - Drill Lithium (Spodumene) Targets:
- Blair Dome / Golden Ridge: - Consider our Cobalt strategy:

In Addition.....

- Engage external funding partnerships: Acra Gold JV (WA) Northern Star (ASX: NST)

Appendices

Reserves and Resources

Sinclair Caesium Zone

Classification	Tonnes	Cs ₂ O	Cs Metal
	(t)	(%)	(t)
Measured	10,500	17.1	1,694
Total	10,500	17.1	1,694

Mineral Resource Summary by Category: Sinclair Caesium Deposit

Note: Appropriate rounding applied

Blair Nickel Mine

Class	Tonnes	Ni	Ni Metal
	(t)	(%)	(t)
Indicated	75,560	4.37	3,300
Inferred	147,150	2.18	3,210
Total	222,710	2.92	6,510

Mineral Resource Summary by Category: Blair Nickel Mine

Note: Appropriate rounding applied

References

- **References**
- Acra: Refer Company's announcements to ASX dated 16 April 2014, 22 October 2014, 26 June 2015, 6 October, 2015, 18 December, 2105, 15 February 2016, 21 October 2016
- Blair: Refer Company's announcements to ASX dated 18 November 2013 (Blair Resource Estimate), May 2014, 27 January 2015, 18 May 2015, 20 July 2015, 13 April 2017.
- Mavis Lake and Raleigh: Refer Company's announcements to ASX dated 15 March 2016, 20 April 2016, 13 July 2016, 26 July 2016, 12 October 2016, 2 December 2016, 7, 8 February 2017, 10 March 2017, 11 April 2017
- Pioneer Dome: Refer Company's announcements to ASX 19 May 2016, 27 July 2016, 28 August 2016, 1 September 2016, 4 October 2016, 17 October 2016, 14 November 2016, 2 December 2016, 13 December 2016, 13 January 2017, 24 January 2017, 23 February 2017, 20 March 2017, 22 March 2017

The Company it is not aware of any new information or data that materially affects the information included in this Report

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