



Important Information

Forward Looking Statements

This Presentation may include statements that could be deemed "forward-looking statements". Although the Company believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results or developments may differ materially from those expected in the forward-looking statements or not take place at all.

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Competent Person Statement

The Information in this report that relates to Mineral Resources for the Kathleen Valley Project is extracted from the ASX announcement "Kathleen Valley Lithium Resource jumps 353% to 74.9Mt @ 1.3% $\rm Li_2O$ " released on the 9th July 2019 which is available on <u>www.ltresources.com.au</u>.

The Information in this report that relates to Metallurgy for the Kathleen Valley Project is extracted from the ASX announcement "Highly encouraging results from initial metallurgical test work at the Kathleen Valley Lithium-Tantalum Project, WA" and "Kathleen Valley Lithium Resource jumps 353% to 74.9Mt @ 1.3% Li₂O" released on the 12th November 2018 and 9th July 2019 respectively which are available on www.ltresources.com.au.

The Information in this report that relates to the Scoping Study for the Kathleen Valley Project is extracted from the ASX announcement "Kathleen Valley Scoping Study confirms potential for robust new WA lithium mine development" released on the 29th January 2019 which is available on www.ltresources.com.au.

The Information in this report that relates to Exploration Results for the Kathleen Valley Project is extracted from the ASX announcements "Latest drilling extends thick, high-grade zone at Kathleen Valley further north as strong assay results continue",



"Spectacular intercept of 90m @ 1.3% Li $_2$ O at Kathleen Valley" and "Work commences on Kathleen Valley Resource update as drilling continues to deliver wide, high grade lithium results", "Further spectacular drill intercepts returned from Kathleen Valley", "Exceptional new thick, high-grade drill results confirm potential for substantial resource growth at Kathleen Valley" released on the 9th May 2019, 20th May 2019, 3rd June 2019, 24^{th} June 2019 and 5^{th} November respectively which are available on www.ltresources.com.au.

The Information in this report that relates to Exploration Targets is is based on and fairly represents information and supporting documentation prepared by Mr David Richards, who is a Competent Person and a member of the Australasian Institute of Geoscientists (AIG). Mr Richards is a full-time employee of the company. Mr Richards has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activities being undertaken 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'. Mr Richards consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The Information in this report that relates to Mineral Resources for the Buldania Project is extracted from the ASX announcement "Liontown announces maiden Mineral Resource Estimate for its 100%-owned Buldania Lithium Project, WA" released on the 8th November 2019 which is available on www.ltresources.com.au.

The Information in this presentation that relates to the Exploration Results for the Buldania Project is extracted from the ASX announcements entitled "More strong assays confirm significant lithium discovery at Buldania Project in WA", "Liontown confirms second significant lithium discovery in WA with new thick, high-grade hits at Buldania", "Outstanding new drilling results continue to expand lithium mineralisation at Buldania", "Liontown further expands prospective lithium footprint at Buldania in WA's South-Eastern Goldfields", "Latest assays confirm lithium mineralisation over >1.3km strike length at the Buldania Lithium Project in WA", "Liontown expands lithium footprint at Buldania in WA's South-Eastern Goldfields", "Initial assays extend mineralised trend at Buldania", "Further thick lithium intercepts from drilling at Buldania" and "Liontown on track for maiden Resource at Buldania following receipt of further high-grade lithium assays" released on the 26th March 2018, 19th September 2018, 1st November 2018, 13th November 2018, 20th November 2018, 14th March 2019, 22nd July 2019, 29th July 2019 and 17th September 2019 respectively which are available on www.ltresources.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 market announcements and 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.

A Next Generation Lithium Producer



Low Risk

- Western Australia
- Granted Mining Leases
- Well funded



Kathleen Valley Lithium Project



Location

- Established mining region
- Modern infrastructure



Quality

- Kathleen Valley 5th biggest resource in Australia
- 83% M&I

Buldania Lithium Project

■ KALGOORLIE

PERTH



- 100%
- No third party obligations (excluding royalties)



- Kathleen Valley PFS due early Dec 2019
- Kathleen Valley DFS commences 2020

2019 achievements have positioned Liontown well for the future





Kathleen Valley Lithium Project

Updated Mineral Resource:

74.9Mt @ 1.3% Li_2O and 140ppm Ta_2O_5

- 353% increase from the maiden MRE
- Thick, high-grade mineralisation intersected over ~1.4km strike length with the system open to north and at depth
- Latest results highlight the potential to substantially increase the Kathleen Valley MRE
- Resource extension drilling to continue into 2020
- Metallurgical test work delivers +6% Li₂O concentrate
- A Scoping Study based on the maiden MRE confirmed the potential viability of a standalone mining and processing operation
- Pre-Feasibility Study imminent
- Multiple opportunities to enhance financial metrics

2 Buldania Lithium Project

Maiden Mineral Resource: 14.9Mt @ 0.97% Li₂O and 44ppm Ta₂O₅

- 60% classified as Indicated.
- The Mineral Resource remains open along strike and at depth.
- Large, prospective land holding





Project Overview



JULY 2019 RESOURCE

74.9Mt @ 1.3% Li₂O and 140ppm Ta₂O₅ 83% Measured and Indicated 353% increase on maiden 2018 MRE



Liontown Lithium 500km **Project** Mt Keith **Major Nickel Mine** AUSTRALIA **KATHLEEN VALLEY** Cliffs **Major Gold Mine** Greenstone ■ Kalgoorlie Granite Perth . Yakabindie Cosmos Natural Gas Pipeline Kathleen Valley **Bellevue** Lithium Project Transmission Leinster Leinster Vivien Kalgoorlie (~3Ö0km) Agnew

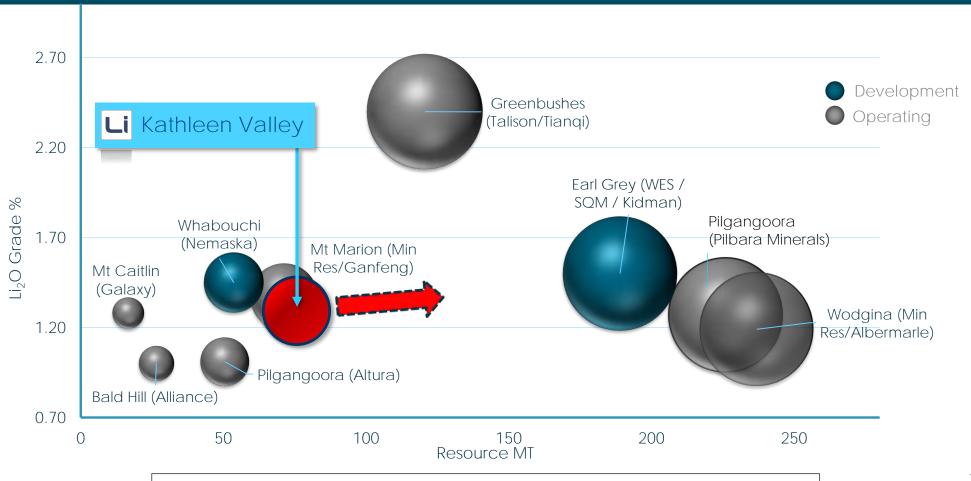
- 2 PFS scheduled for release in Dec 2019
- 3 Conventional mining and processing
- Test work confirms ~6% DMS spodumene concentrate feasibility-level test work ongoing
- Scoping Study (January 2019) on maiden MRE confirms potential for standalone mining operation
- Exploration Target of 25 50Mt @ 1.2-1.5% Li₂O* in addition to current MRE

The potential grade and tonnage of the Exploration Target referred to above is conceptual in nature and there has been insufficient exploration to estimate an Mineral Resource. It is uncertain if further exploration will result in the estimation of a Mineral Resource. See Appendix (slide 36) for full explanation of assumptions used to estimate ranges.

A Globally Significant Lithium Deposit

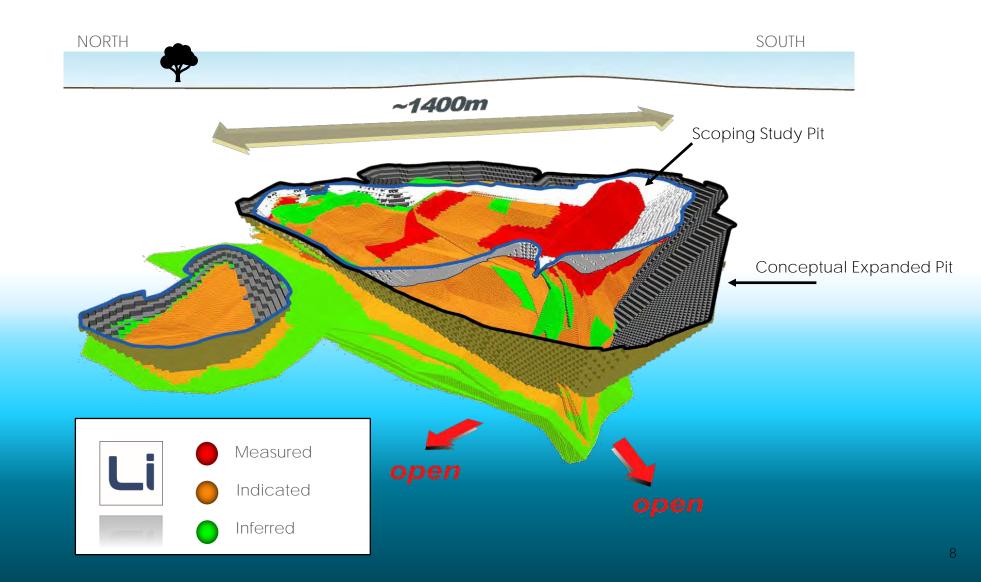
Hard Rock Lithium Operations and Advanced Projects

Western World | Spodumene Dominant | Tonnes x Grade | Li₂O Only



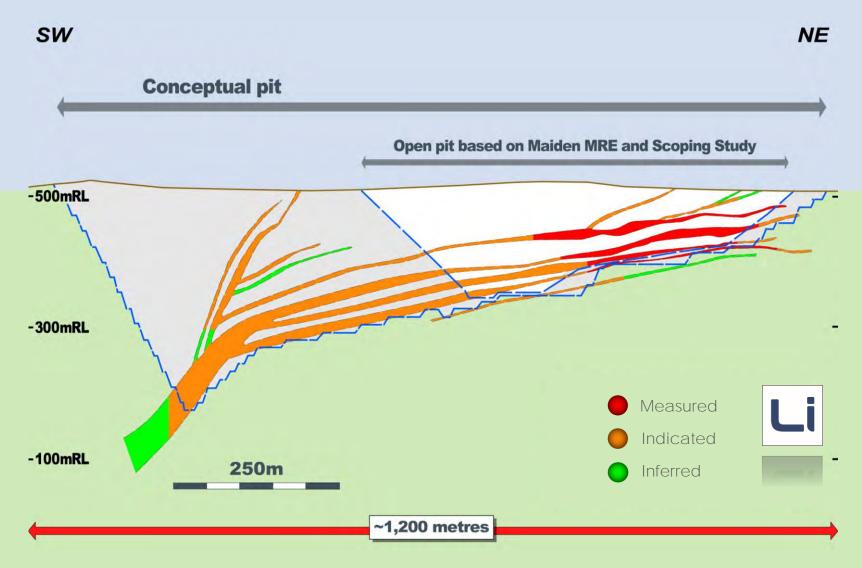
>3x Increase in MRE supports potential for larger pit





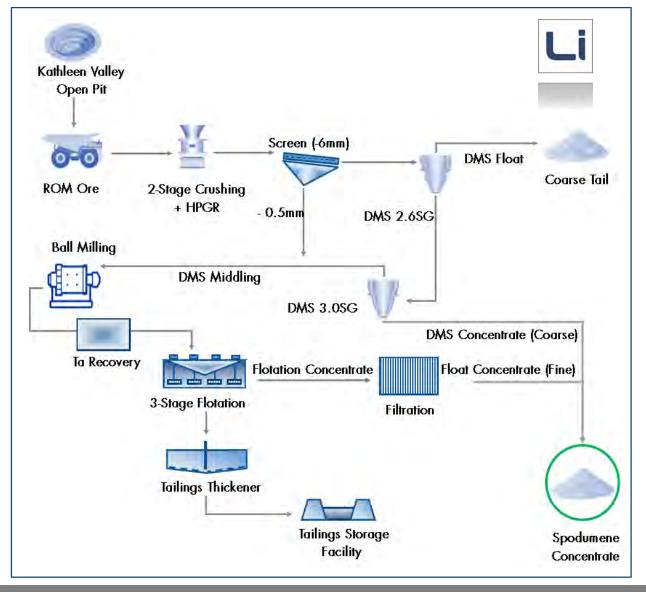
>3x Increase in MRE supports potential for larger pit







Metallurgy and Flowsheet



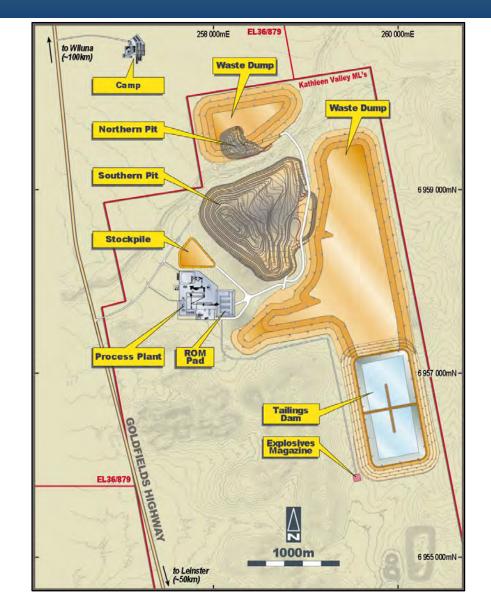




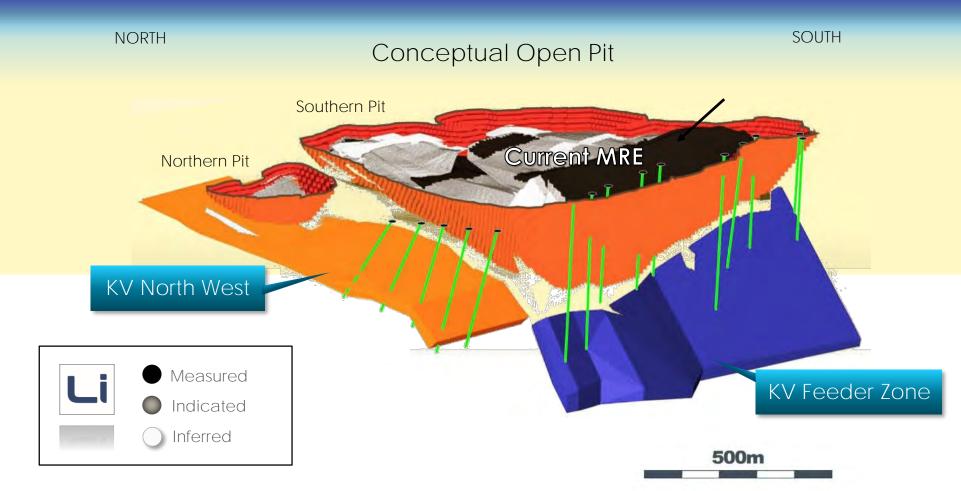


Scoping Study on maiden MRE supports potential to develop a standalone Lithium Mining and Processing Operation

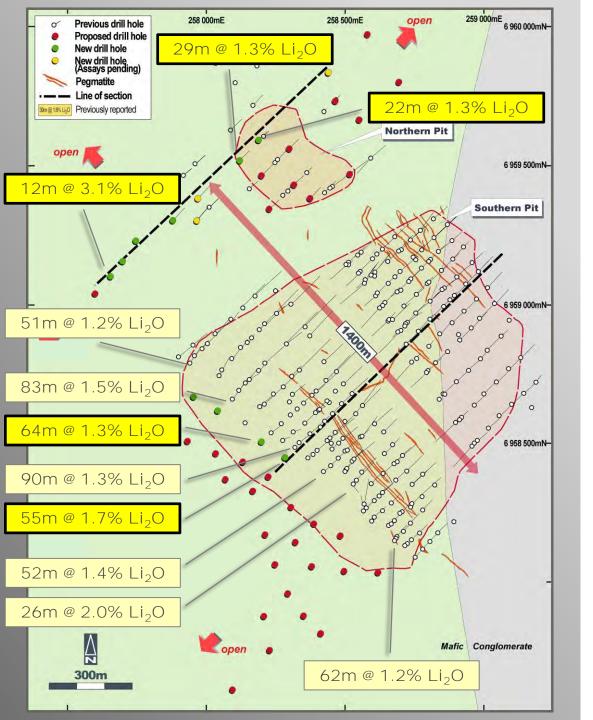
NPV _(8%, real, post tax)	A\$421M (Range of A\$316 to A\$526M)
IRR	38%
Payback	<3 years
Free Cash Flow	A\$762M
Average Cash Flow	~A\$100M per annum
Plant Capacity	2Mtpa (Li & Ta)
Annual Production	~360kt SC6
LOM SC6 PRICE	A\$900 (US\$650/t) FOB
LOM Opex	~A\$428/t SC6
Capex	~A\$232M



Exploration target 25 – 50Mt @ 1.2 – 1.5% Li₂O* (15,000-25,000m drilling program in progress)



'The potential grade and tonnage of the Exploration Target referred to above is conceptual in nature and there has been insufficient exploration to estimate an Mineral Resource. It is uncertain if further exploration will result in the estimation of a Mineral Resource. See Appendix (slide 36) for full explanation of assumptions used to estimate ranges.



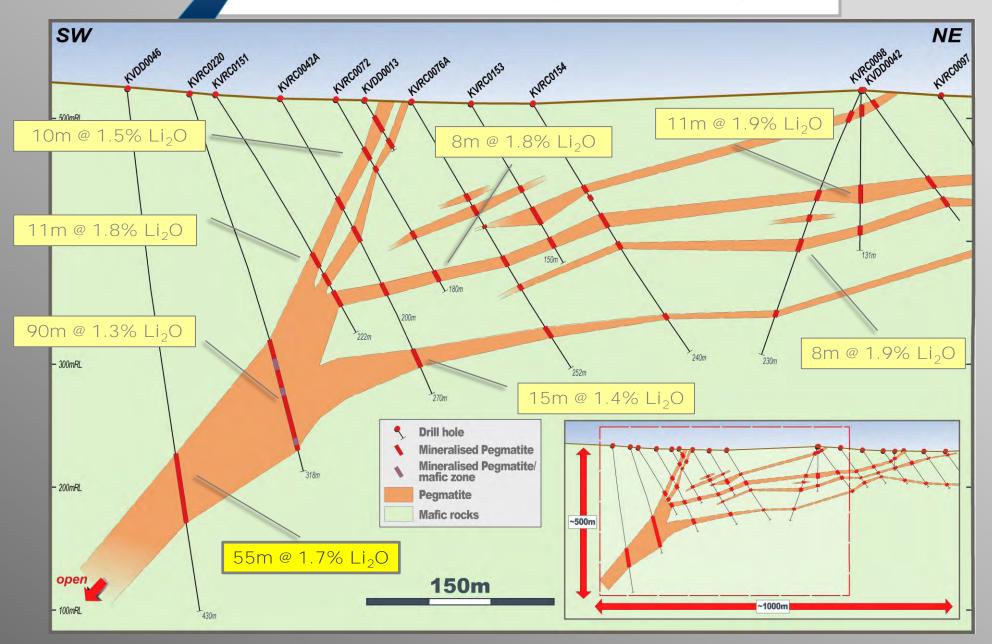


Resource Upside

- 15,000-25,000m resource extension drill program in progress (3 rigs)
- Targeting extension of thick (>45m), high grade, "feeder" zone.....
- 3 ...and along strike to northwest
- Initial results confirm thick, high grade mineralisation extends down dip and along strike; e.g.
 - 55m @ 1.7% Li₂O from 301m inc.
 13m @ 2.2% Li₂O from 312m
 - 12m @ 3.1% Li₂O from 218m inc.
 9m @ 3.8% Li₂O from 219m
- 5 Drilling program to be expanded

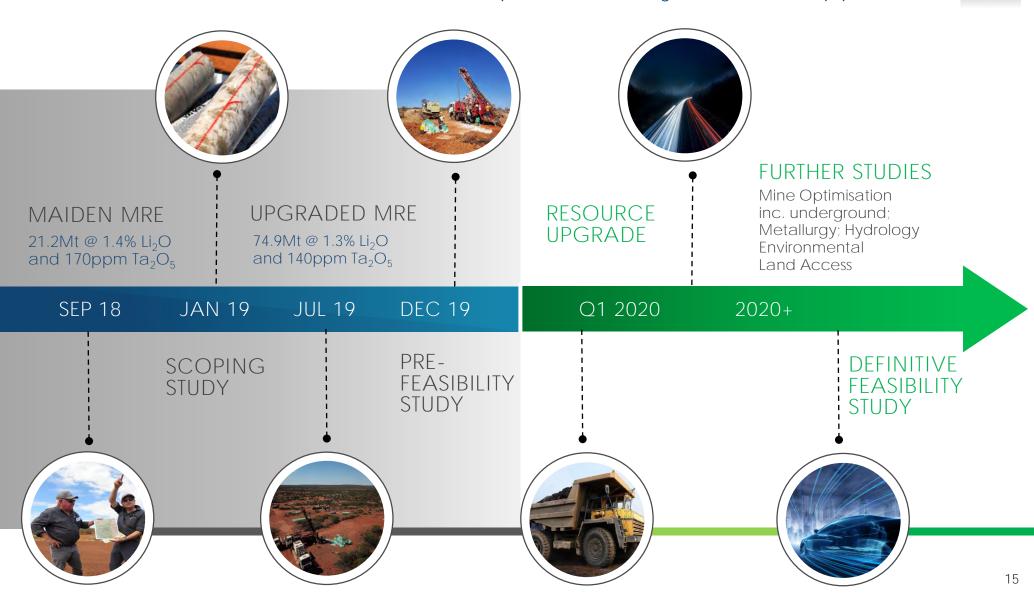


Mineralisation open down dip





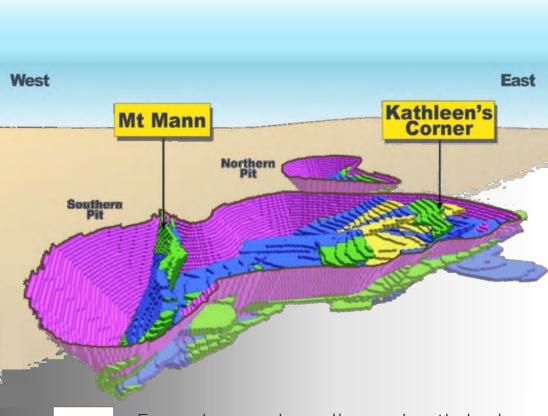
Achievements in the last 12 months pave the way for future opportunities



Kathleen Valley Investment Case



The only non-committed spodumene resource in Australia



Experienced, well-credentialed management team

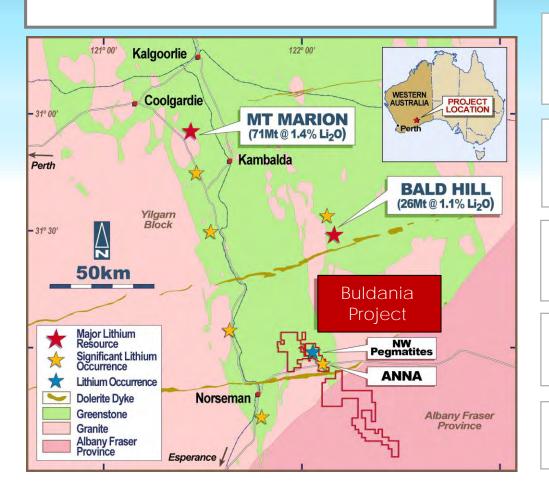
- ullet ~75Mt @ 1.3% Li $_2$ O and 140ppm Ta $_2$ O $_5$
- Conventional mining and processing
- Positive Scoping Study PFS imminent
- Probable long life mine
- First world location and expertise
- Active, well serviced mining region
- Strong medium to long term outlook for lithium
- Expanded drilling in progress testing for additional Exploration Target of 25-50Mt @ 1.2 – 1.5% Li₂O*



Project Overview



Buldania is Located in a Lithium-Rich Mineral Province



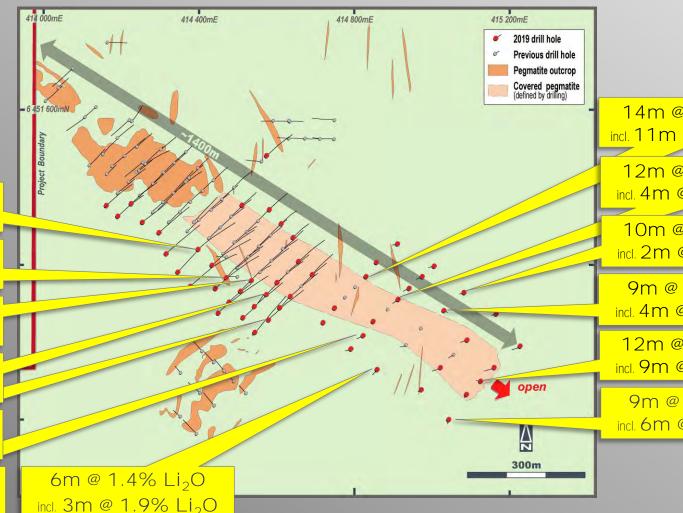
Significant lithium discovery

- Outcropping, fresh, spodumenerelated mineralisation
- Mineralisation at Anna extended to the SE under shallow cover strike length >1.4km and open
- Similar geology to the Mt Marion and Bald Hill lithium deposits (71Mt and 26Mt respectively)
- Good infrastructure located on Eyre
 Highway ~30km east of KalgoorlieEsperance railway
- Liontown has 100% of the lithium and related metal rights
- Part of larger, 330km² strategic land holding

Large Lithium (Spodumene) Mineralised Pegmatite Defined at the Anna Prospect



Mineralisation fresh from surface and open along strike and at depth



14m @ 1.7% Li₂O incl. 11m @ 2.0% Li₂O

12m @ 1.5% Li₂O incl. 4m @ 1.9% Li₂O

10m @ 1.0% Li₂O incl. 2m @ 2.2% Li₂O

9m @ 1.4% Li₂O incl. 4m @ 2.1% Li₂O

12m @ 1.6% Li₂O incl. 9m @ 1.9% Li₂O

9m @ 1.1% Li₂O incl. 6m @ 1.4% Li₂O

19m @ 1.5% Li₂O incl. 5m @ 1.9% Li₂O

42m @ 1.0% Li₂O incl. 14m @ 1.4% Li₂O

25m @ 1.1% Li₂O incl. 9m @ 1.8% Li₂O

20m @ 1.1% Li₂O

incl. 14m @ 1.3% Li₂O

23m @ 1.0% Li₂O

incl. 6m @ 1.4% Li₂O

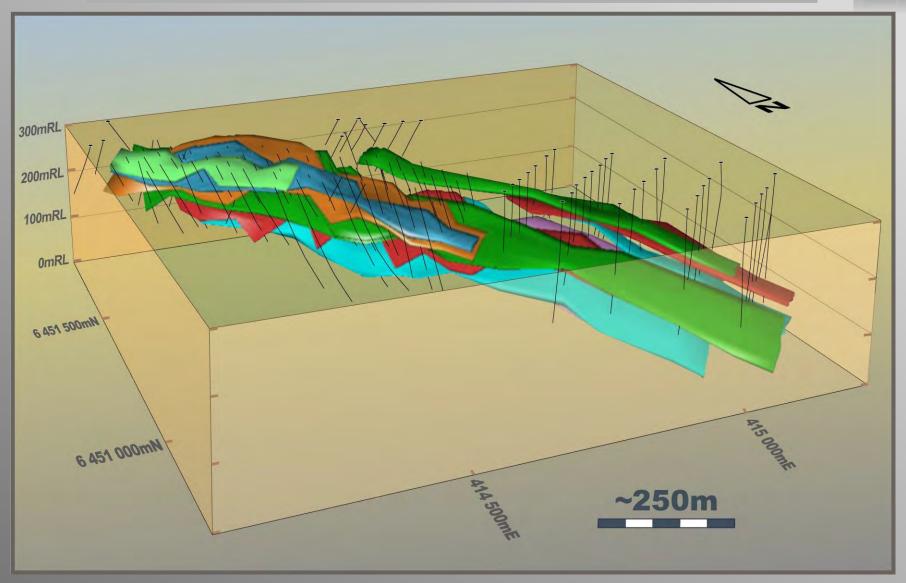
15m @ 1.3% Li₂O

incl. 10m @ 1.5% Li₂O



Maiden Mineral Resource Estimate - 14.9Mt @ 1.0% Li₂O







Priorities Going Forward



Maintain:

- ✓ Safe and supportive working environment
- ✓ Financial discipline
- ✓ Technical and corporate expertise
- Strong and relevant engagement with investors and stakeholders
- At Kathleen Valley deliver:
 - ✓ PFS (Dec 2019)
 - ✓ Updated MRE (Q1/Q2 2020) 3 Rigs Drilling
 - ✓ Deliver DFS
- At Buldania:
 - ✓ Determine best strategy to add value

Leadership and Key Financials





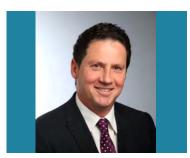




Tim Goyder



Craig Williams



Anthony Cipriano



Steven Chadwick

Managing Director

- +35 years
- Discovered multimillion ounce Vera Nancy Gold Deposits

Chairman

- +40 years
- Executive Chairman Chalice Gold Mines
- Major Shareholder

Non-Executive Director

- +40 year
- Founder and CEO of Equinox Minerals

Non-Executive Director

- +30 years
- Former Senior Partner at Deloittes

Non-Executive Director

- +40 years
- Director of Lycopodium Minerals

Corporate Snapshot

ASX CODE	LTR
Shares on Issue	~1,678M
Market Capitalisation	~\$138M (AT 8.2CPS)
Major Shareholder	Tim Goyder~17%
Top 20 Shareholders	~42%
Cash (as at 30 -Sept-19)	~A\$15.6M





Kathleen Valley Mineral Resource Estimate – July 2019

Cut-off grade (Li₂O)	Resource Category	Million Tonnes	Li ₂ O (%)	Ta ₂ O ₅ (ppm)
	Measured	17.6	1.3	160
0.5	Indicated	42.2	1.3	140
0.5	Inferred	10.1	1.1	150
	Sub-Total	69.9	1.3	150
	Indicated	2.5	1.4	120
0.7	Inferred	2.5	1.3	110
	Sub-Total	5.0	1.4	110
Total	74.9	1.3	140	

Cut-Off Li₂O	Open	pit potential above 2	00mRL	Underground potential below 200mRL		
Cut-On Li ₂ O	Mt	Li ₂ O (%)	Ta₂O₅	Mt	Li ₂ O (%)	Ta ₂ O ₅
0.3	70.2	1.3	150	5.1	1.4	110
0.4	70.1	1.3	150	5.1	1.4	110
0.5	69.9	1.3	150	5.1	1.4	110
0.6	69.3	1.3	150	5.1	1.4	110
0.7	68.1	1.3	150	5.0	1.4	110
0.8	65.6	1.3	150	4.9	1.4	110
0.9	61.8	1.3	150	4.7	1.4	110
1.0	56.4	1.4	150	4.4	1.4	110

Scoping Study – Key Parameters And Assumptions

Parameter	
General and Economic	
Discount rate (real, post tax)	8%
Spodumene concentrate price	US\$650 per tonne FOB
Tantalum concentrate price (contained Ta_2O_5)	US\$71 per pound FOB
Exchange rate - AUD/USD	0.72
Mining and Production	
Average Life-of-Mine strip ratio	8.24:1
Processing rate	2Mtpa
Life-of-Mine Production Target	15.7Mt ore
Average Li ₂ O grade (diluted)	1.26%
Average ${ m Ta_2O_5}$ grade (diluted)	154ppm
Li ₂ O recoveries	79%
Ta ₂ O ₅ recoveries	50%
Spodumene concentrate grade	5.6%
Tantalite concentrate grade	30%
Moisture content of concentrate	13%

A\$37.72
A\$19.32
A\$75.65
A\$6.01
5%
3% gross sales and \$0.5/t ore mined
30%
A\$25M



Scoping Study – LoM Financials And Capital Expenditure



Life of Mine Financials

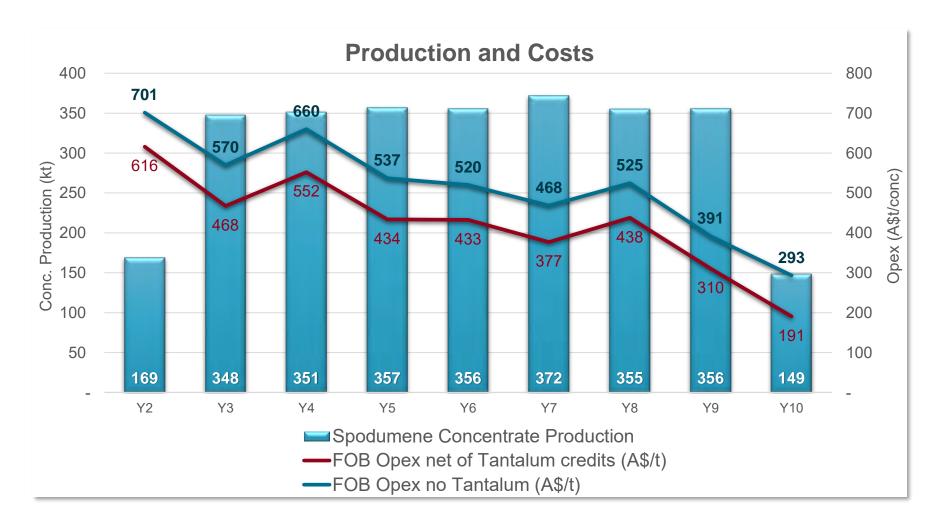
	A\$M
Revenues	2,802
Operating costs	(1,236)
Capital expenditure - pre-production - sustaining	(232) (25)
Royalties	(232)
Corporate tax	(315)
Life of Mine Project Free Cash flow	762

Capital Costs Summary

Main Area	Capital (A\$M)
Treatment Plant	82.8
Reagents & Plant Services	9.5
Infrastructure - general	39.9
Mining	6.1
Contractor and Construction Indirects	18.6
Subtotal	156.9
Management Costs	20.6
Owners Costs	14.4
Subtotal	35.0
Contingency	40.3
Project Total	232.2

Scoping Study – Production And Costs





Scoping Study – Grade Profiles



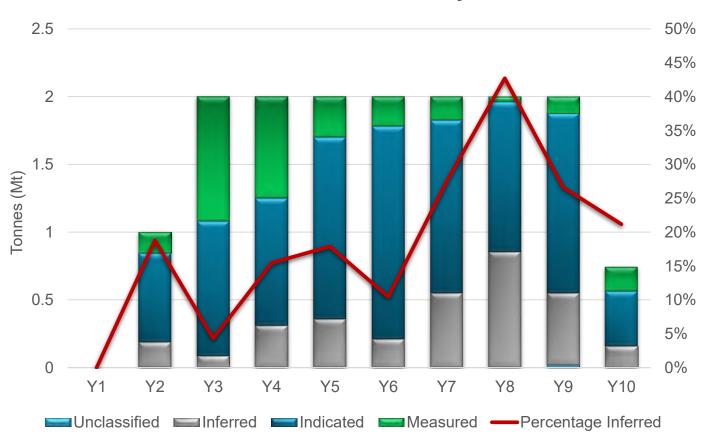
LOM Lithium and Tantalum Grade Profile



Scoping Study - Production Classification



Production Classification by Year



Peer Comparison Information – Mineral Resource Estimates

Company	Project	Stage	Measured Mt	Indicated Mt	Inferred Mt	Global MRE Mt	MRE Grade	Information Source
Pilbara Minerals	Pilgangoora	Operating	22.8	112.8	90.4	226	1.3	ASX Announcement, 17 Sept 2018 - http://www.pilbaraminerals.com.au/site/ PDF/2235_0/PilgangooraReserveandReso urceUpgrade
Wesfarmers / SQM / Kidman	Earl Grey	Development	66	106	17	189	1.5	ASX Announcement, 19 March 2018 - https://wcsecure.weblink.com.au/pdf/K DR/01963105.pdf
Talison / Tianqi	Greenbushes	Operating	0.6	117.9	2.1	120.6	2.4	NI 43-101 Technical Report 2012 - http://www.goldendragoncapital.com/ greenbushes-lithium-mine/
Mineral Resources and Albemarle	Wodgina	Operating	0	177	59.9	236.9	1.2	ASX Announcement, 23 October 2018 http://clients3.weblink.com.au/pdf/MIN/ 02037855.pdf
Galaxy Resources	Mt Caittlin	Operating	2.2	9.9	4.6	16.7	1.28	ASX Announcement 23rd Jan 2019: https://www.asx.com.au/asxpdf/2019012 3/pdf/4420zn6jk8tl0q.pdf
Mineral Resources Ltd and Jiangxi Ganfeng	Mt Marion	Operating	0	22.70	48.7	71.3	1.37	ASX Announcement, 28th October: https://www.neometals.com.au/reports/ 2018-10-31-1697-MINMtMario.pdf
Altura Mining	Pilgangoora	Operating	8.7	38	3.8	50.5	1.01	Investor Presentation, 21 March 2019: https://alturamining.com/wp- content/uploads/2019/03/1912571.pdf
Alliance Mineral Assets Ltd	Bald Hill	Operating	0	14.4	12.1	26.5	1.0	Investor Presentation, March 2019: http://www.allianceminerals.com.au/wp -content/uploads/2019/03/02088109.pdf
Nemaska Exploration	Whabouchi	Development	17.0	20.6	16.1	53.7	1.45	Website, 18th June 2019: https://www.nemaskalithium.com/en/wh abouchi/lithium-resources-reserves/

Exploration Target Parameters and Assumptions



Parameter	KV Feeder Zone	KV North West	Rationale
Combined strike length of pegmatites	1100m	400	Based on previous drilling and extrapolation of block
Average cumulative true width	>18m	>20m	model used in preparation of Mineral Resource
Down Dip extent	230 - 500m	600 - 1,100m	Estimate (released 4 th September 2018)
Specific gravity	ecific gravity 2.75 2.75		Measured from diamond core drilling
Total tonnage	Total tonnage 12.5 - 27Mt 13 - 2		Strike x width x dip x S.G
Average grade	1.2 – 1.5%	1.2 – 1.5%	Based on latest Mineral Resource Estimate

The grade and tonnage ranges referred to above are conceptual in nature and there has been insufficient exploration to estimate a Mineral Resource. It is uncertain if further exploration will result in the estimation of a Mineral Resource.

