ASX : LTR

**ASX ANNOUNCEMENT** 19th FEBRUARY 2018

# Latest assays confirm continuity of shallow high-grade lithium mineralisation at Kathleen Valley, WA

***Multiple intersections of >2% $Li_2O$ returned from main pegmatite zone at Mt Mann***

**Highlights**

- **Continuity of the main pegmatite zone at Mt Mann confirmed - better intersections from the latest batch of assays include:**
  - ***13m @ 1.6% $Li_2O$ from 65m (KVRC0027), including:***
    - ***6m @ 2% $Li_2O$ from 69m***
  - ***10m @ 1.8% $Li_2O$ from 75m (KVRC0029), including:***
    - ***7m @ 2.2% $Li_2O$ from 77m***
  - ***9m @ 1.6% $Li_2O$ from 16m (KVRC0030), including:***
    - ***6m @ 2.0% $Li_2O$ from 18m***
  - ***9m @ 1.7% $Li_2O$ from 52m (KVRC0031), including:***
    - ***6m @ 2% $Li_2O$ from 54m***

  *(True widths 85-95% of down hole widths listed above)*
- **These are in addition to recently reported (5th February 2018) results from Mt Mann which included intersections of up to 22m @ 1.2% *$Li_2O$ from 26m (KVRC0020).***
- **The mineralisation at Mt Mann remains open along strike to the south and at depth.**
- **Assays have also been received for the first three holes from Kathleen's Corner and results confirm the presence of multiple, stacked mineralised pegmatites with a best intersection of 17m @ 1.4% $Li_2O$ from 78m, including 4m @ 2% $Li_2O$ from 79m and 4m @ 2.3% $Li_2O$ from 90m, recorded in KVRC0034.**
- **Assays pending for the remaining six holes from the recently completed drill program, which comprised 21 Reverse Circulation (RC) holes for ~2,700m.**

Liontown Resources Limited (ASX: LTR) is pleased to advise that it has recorded further strong zones of shallow, high-grade lithium mineralisation in the latest batch of assays returned from the recently completed 21-hole, 2,688m RC drilling program at its Kathleen Valley Lithium Project, located 680km north-east of Perth, Western Australia.

The latest assays include the remaining holes drilled into the Mt Mann trend (KVRV0027-0031) and initial results from Kathleen's Corner (KVRC0032-0034).

The drill program was designed to test both the Mt Mann and Kathleen's Corner targets, where previous rock chip sampling and limited drilling recorded fresh, high-grade (>1.5% $Li_2O$), spodumene-related mineralisation in multiple pegmatites (*Figure 1*).

**T:** +61 (0) 8 9322 7431
**F:** +61 (0) 8 9322 5800
**E:** info@ltresources.com.au
**W:** www.ltresources.com.au

Liontown Resources Limited
Level 2, 1292 Hay Street, West Perth WA 6005, Australia
GPO Box 2980, Perth WA 6001
ABN 39 118 153 825

At Mt Mann, high-grade lithium mineralisation has now been intersected over a strike length of more than 500m hosted by moderately south-west dipping pegmatites (***Figures 2 and 3***) with the trend remaining open towards the south and at depth (*see Appendix 1 for full listing of previous and current drill statistics*).

At Kathleen's Corner (***Figure 1***), drill testing has intersected multiple, flat-to-moderately dipping pegmatites, which are individually up to 20m thick, over a probable strike length >500m with the trend remaining open in all directions. Assays are pending for the remaining six holes (KVRC0035-0040) drilled at Kathleen's Corner.

Planning has commenced for follow-up in-fill drilling, including diamond core holes, and will be finalised once all assays have been received.

Liontown Managing Director David Richards said the Company was highly encouraged by the results received to date at Kathleen Valley.

"We are continuing to see significant high-grade spodumene mineralisation over a significant strike length at both Mann and Kathleen's Corner," he said. "The presence of multiple, flat-dipping pegmatites at Kathleen's Corner is a particularly encouraging development, and we are looking forward to receiving the balance of the assay results from this area before moving ahead to plan our next phase of drilling."

DAVID RICHARDS
Managing Director

19th February 2018

*The Information in this report that relates to Exploration Results 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.*

*This announcement contains forward-looking statements which involve a number of risks and uncertainties. These forward looking statements are expressed in good faith and believed to have a reasonable basis. These statements reflect current expectations, intentions or strategies regarding the future and assumptions based on currently available information. Should one or more of the risks or uncertainties materialise, or should underlying assumptions prove incorrect, actual results may vary from the expectations, intentions and strategies described in this announcement. No obligation is assumed to update forward looking statements if these beliefs, opinions and estimates should change or to reflect other future developments.*


For More Information:

David Richards
Managing Director
T: +61 8 9322 7431

Investor Relations:

Nicholas Read
Read Corporate
T: +61 8 9388 1474

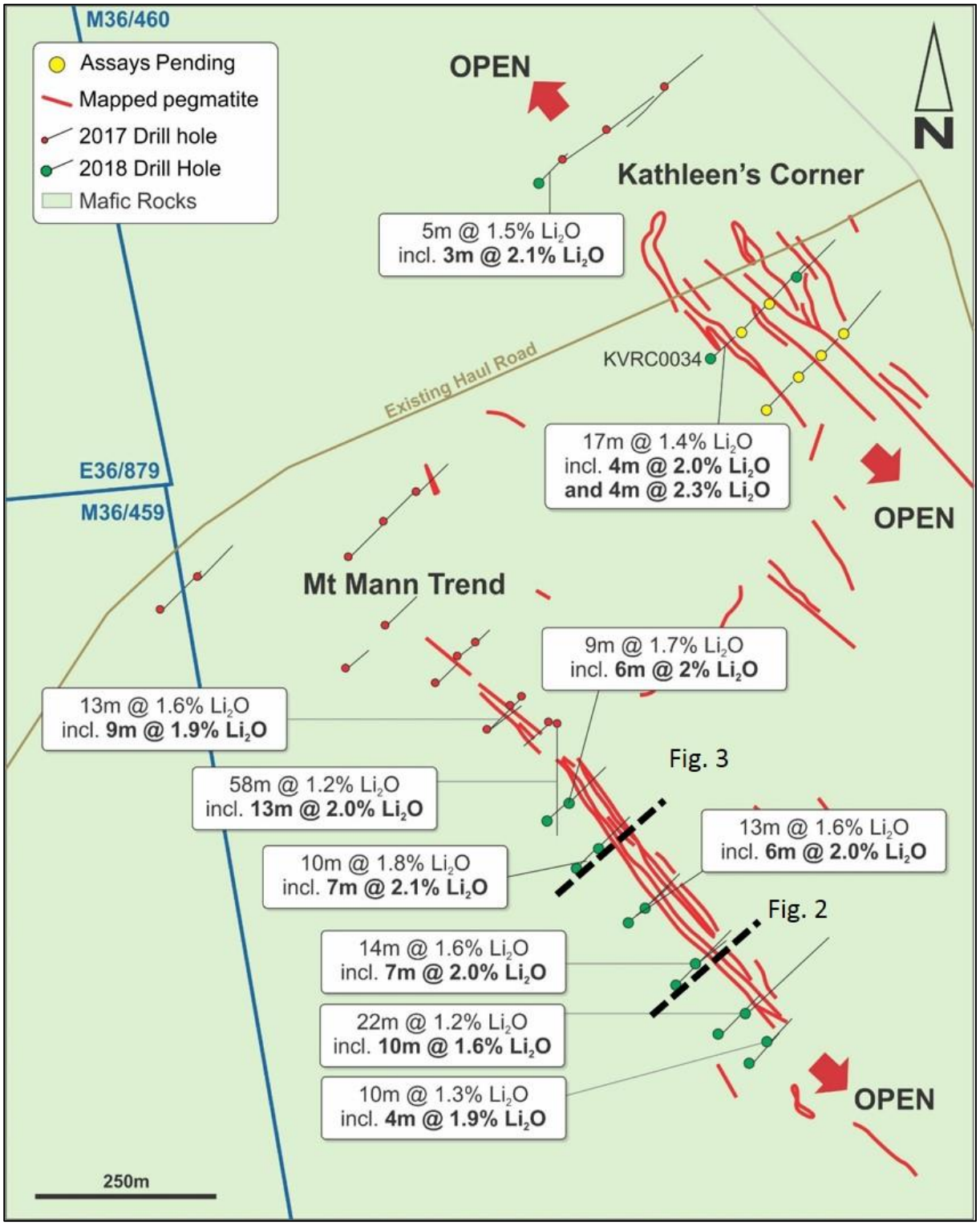


*Figure 1: Kathleen Valley – Drill hole plan showing better intersections (black dashed line shows position of drill sections following)*

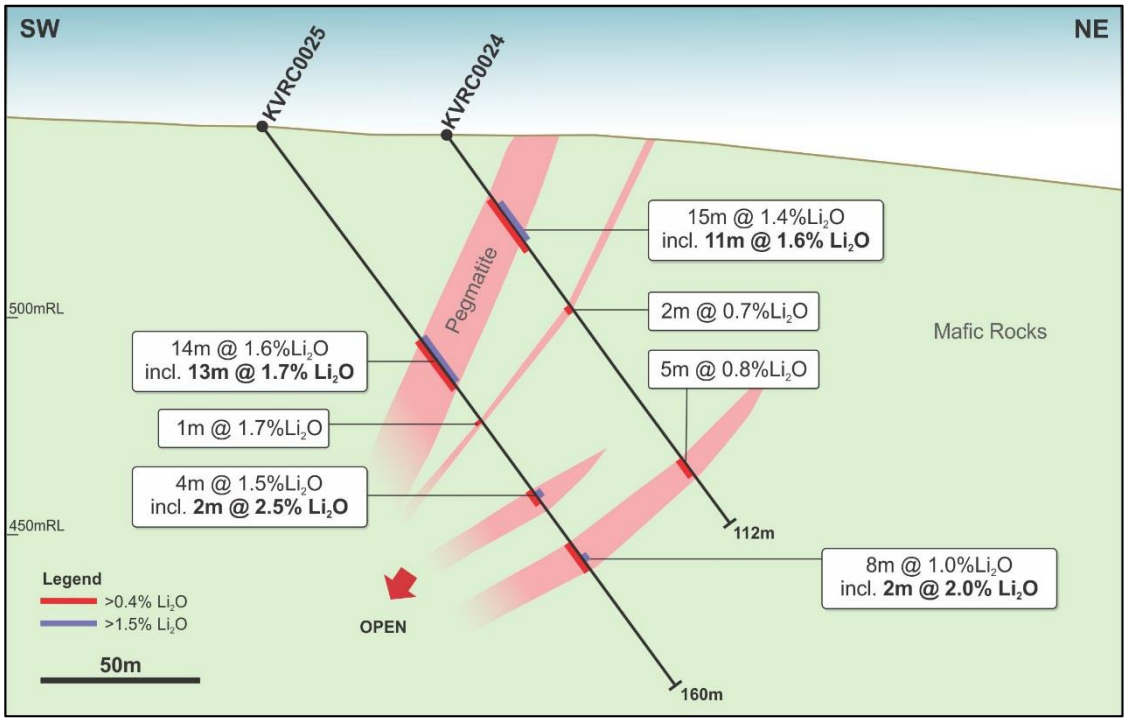


*Figure 2: Kathleen Valley Project – Drill section KVRC0024 and KVRC0025 looking NW (see Figure 1 for location)*

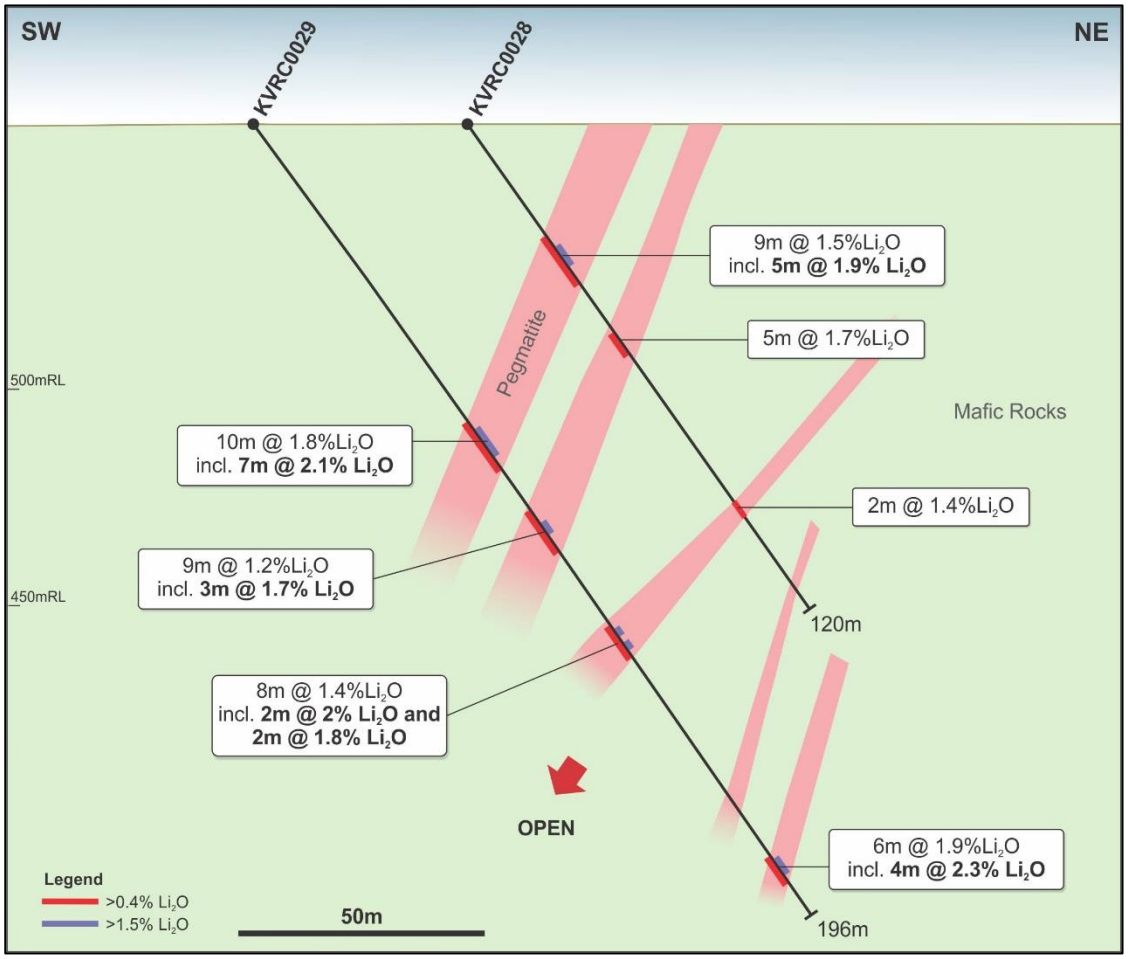


*Figure 3: Kathleen Valley Project – Drill section KVRC0028 and KVRC0029 looking NW (see Figure 1 for location)*

## Appendix 1 – Kathleen Valley – Drill hole statistics

| Hole_ID | East | North | RL | Dip | Azimuth | Depth (m) | Significant Li2O (>0.4%) and Ta2O5 (>50ppm) results | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | From(m) | To(m) | Interval(m) | Li2O (%) | Ta2O5 (ppm) |
| KVRC0001 | 258306 | 6958744 | 500 | -60 | 45 | 65 | 3 | 6 | 3 | 1 | 122 |
| | | | | | | | 10 | 11 | 1 | 1.1 | 85 |
| | | | | | | | 16 | 17 | 1 | 1.1 | 94 |
| KVRC0002 | 258379 | 6958675 | 500 | -60 | 225 | 109 | 0 | 13 | 13 | 1.6 | 114 |
| | | | | | | | **incl. 9m @ 1.9% Li2O and 107ppm Ta2O5 from 2m** | | | | |
| | | | | | | | 26 | 29 | 3 | 1.3 | 101 |
| | | | | | | | 35 | 36 | 1 | 1.6 | 127 |
| | | | | | | | 83 | 96 | 13 | 1.6 | 111 |
| | | | | | | | **incl. 6m @ 2% Li2O and 113ppm Ta2O5 from 88m** | | | | |
| KVRC0003 | 258395 | 6958690 | 500 | -59 | 225 | 155 | 91 | 105 | 14 | 1.7 | 163 |
| | | | | | | | **incl. 8m @ 2% Li2O and 130ppm Ta2O5 from 92m** | | | | |
| KVRC0004 | 258348 | 6958645 | 500 | -50 | 45 | 89 | 36 | 38 | 2 | 1 | 99 |
| | | | | | | | 45 | 56 | 11 | 1.2 | 100 |
| | | | | | | | incl. 3m @ 1.8% Li2O and 106ppm Ta2O5 from 45m | | | | |
| KVRC0005 | 258276 | 6958707 | 500 | -53 | 40 | 89 | 32 | 34 | 2 | 1.3 | 112 |
| | | | | | | | 39 | 40 | 1 | 1.5 | 132 |
| KVRC0006 | 258433 | 6958654 | 500 | -49.5 | 227.5 | 80 | 37 | 43 | 6 | 1.1 | 153 |
| KVRC0007 | 258452 | 6959426 | 500 | -47 | 45 | 132 | 29 | 35 | 6 | 1.4 | 170 |
| | | | | | | | incl. 3m @ 1.9% Li2O and 166ppm Ta2O5 from 30m | | | | |
| | | | | | | | 39 | 40 | 1 | 1.1 | 198 |
| | | | | | | | 124 | 125 | 1 | 2.4 | 302 |
| KVRC0008 | 258512 | 6959469 | 500 | -50 | 55 | 130 | 81 | 82 | 1 | 1.2 | 310 |
| | | | | | | | 95 | 96 | 1 | 1 | 124 |
| KVRC0009 | 258590 | 6959528 | 500 | -50 | 45 | 113 | 57 | 59 | 2 | 0.7 | 248 |
| | | | | | | | 70 | 71 | 1 | 0.6 | 266 |
| KVRC0010 | 258593 | 6959527 | 500 | -50 | 225 | 130 | 83 | 85 | 2 | 1.1 | 211 |
| | | | | | | | 91 | 92 | 1 | 1.4 | 239 |
| | | | | | | | 100 | 106 | 6 | 1.2 | 284 |
| KVRC0011 | 258208 | 6958788 | 500 | -50 | 45 | 89 | 24 | 25 | 1 | 1 | 112 |
| KVRC0012 | 258154 | 6958729 | 500 | -55 | 45 | 65 | No significant assays | | | | |
| KVRC0013 | 258205 | 6958930 | 500 | -50 | 45 | 108 | | | | | |
| KVRC0014 | 258157 | 6958881 | 500 | -50 | 45 | 113 | 12 | 17 | 5 | 0 | 240 |
| KVRC0015 | 258443 | 6958652 | 500 | -50 | 180 | 241 | **135** | **193** | **58** | **1.2** | **156** |
| | | | | | | | **incl. 9m @ 1.8% Li2O and 220ppm Ta2O5 from 141m and** | | | | |
| | | | | | | | **13m @ 2.0% Li2O and 138ppm Ta2O5 from 67m and** | | | | |
| | | | | | | | **206** | **230** | **24** | **1.3** | **139** |
| | | | | | | | **incl. 3m @ 1.6% Li2O and 105ppm Ta2O5 from 208m and** | | | | |
| | | | | | | | **2m @ 2.6% Li2O and 271ppm Ta2O5 from 217m and** | | | | |
| | | | | | | | **4m @ 1.6% Li2O and 145ppm Ta2O5 from 226m and** | | | | |
| KVRC0016 | 258331 | 6958764 | 500 | -50 | 45 | 40 | No significant assays | | | | |
| KVRC0017 | 257899 | 6958809 | 500 | -50 | 45 | 119 | 63 | 65 | 2 | 1.3 | 212 |
| KVRC0018 | 257951 | 6958853 | 500 | -50 | 45 | 101 | 1 | 2 | 1 | 1.4 | 93 |
| KVRC0019 | 258252 | 6958969 | 500 | -50 | 45 | 89 | No significant assays | | | | |

*__KVRC0001 – 0019 drilled in February 2017 and results reported March 20th 2017__

## Appendix 1 (cont.) – Kathleen Valley – Drill hole statistics

| Hole_ID | East | North | RL | Dip | Azimuth | Depth (m) | Significant Li2O (>0.4%) and Ta2O5 (>50ppm) results | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | From(m) | To(m) | Interval(m) | Li2O (%) | Ta2O5 (ppm) |
| KVRC0020 | 258702 | 6958251 | 534 | -60 | 45 | 80 | 26 | 48 | 22 | 1.2 | 170 |
| | | | | | | | **incl. 5m @ 1.7% Li2O and 126ppm Ta2O5 from 26m** | | | | |
| | | | | | | | **incl. 10m @ 1.6% Li2O and 244ppm Ta2O5 from 34m** | | | | |
| KVRC0021 | 258675 | 6958223 | 536 | -55 | 45 | 140 | 65 | 75 | 10 | 0.9 | 179 |
| | | | | | | | **incl. 7m @ 1.1% Li2O and 205ppm Ta2O5 from 68m** | | | | |
| | | | | | | | 85 | 88 | 3 | 0.8 | 305 |
| | | | | | | | **incl. 1m @ 1.3% Li2O and 277ppm Ta2O5 from 86m** | | | | |
| | | | | | | | 103 | 106 | 3 | 1.5 | 237 |
| | | | | | | | **incl. 2m @ 1.8% Li2O and 246ppm Ta2O5 from 103m** | | | | |
| KVRC0022 | 258735 | 6958215 | 530 | -55 | 45 | 80 | 20 | 30 | 10 | 1.3 | 199 |
| | | | | | | | **incl. 6m @ 1.7% Li2O and 209ppm Ta2O5 from 24m** | | | | |
| KVRC0023 | 258708 | 6958186 | 531 | -55 | 45 | 100 | 52 | 58 | 6 | 1.5 | 260 |
| | | | | | | | **incl. 5m @ 1.7% Li2O and 246ppm Ta2O5 from 53m** | | | | |
| KVRC0024 | 258665 | 6958285 | 545 | -55 | 45 | 112 | 18 | 33 | 15 | 1.4 | 139 |
| | | | | | | | **incl. 11m @ 1.6% Li2O and 132ppm Ta2O5 from 20m** | | | | |
| | | | | | | | 49 | 51 | 2 | 0.7 | 141 |
| | | | | | | | 93 | 98 | 5 | 0.8 | 173 |
| KVRC0025 | 258636 | 6958260 | 545 | -55 | 45 | 160 | 61 | 75 | 14 | 1.6 | 121 |
| | | | | | | | **incl. 13m @ 1.7% Li2O and 122ppm Ta2O5 from 61m** | | | | |
| | | | | | | | 84 | 85 | 1 | 1.7 | 106 |
| | | | | | | | 103 | 107 | 4 | 1.5 | 187 |
| | | | | | | | **incl. 2m @ 2.5% Li2O and 218ppm Ta2O5 from 104m** | | | | |
| | | | | | | | 119 | 127 | 8 | 1.0 | 197 |
| | | | | | | | **incl. 2m @ 2.0% Li2O and 246ppm Ta2O5 from 123m** | | | | |
| KVRC0026 | 258564 | 6958396 | 536 | -55 | 45 | 120 | 32 | 44 | 12 | 1.4 | 136 |
| | | | | | | | **incl. 8m @ 1.8% Li2O and 147ppm Ta2O5 from 35m** | | | | |
| | | | | | | | 58 | 61 | 3 | 1.2 | 93 |
| | | | | | | | 80 | 82 | 2 | 1.5 | 375 |
| | | | | | | | **incl. 1m @ 2.5% Li2O and 398ppm Ta2O5 from 81m** | | | | |
| | | | | | | | 98 | 100 | 2 | 1 | 291 |
| KVRC0027 | 258535 | 6958367 | 534 | -55 | 45 | 160 | 65 | 78 | 13 | 1.6 | 120 |
| | | | | | | | **incl. 6m @ 2% Li2O and 112ppm Ta2O5 from 69m** | | | | |
| | | | | | | | 93 | 97 | 4 | 1.5 | 161 |
| | | | | | | | 101 | 105 | 4 | 0.7 | 204 |
| | | | | | | | 129 | 135 | 6 | 0.8 | 107 |
| KVRC0028 | 258504 | 6958477 | 525 | -55 | 45 | 120 | 30 | 39 | 9 | 1.5 | 133 |
| | | | | | | | **incl. 5m @ 1.9% Li2O and 133ppm Ta2O5 from 32m** | | | | |
| | | | | | | | 51 | 56 | 5 | 1.7 | 80 |
| | | | | | | | 95 | 97 | 2 | 1.4 | 350 |
| KVRC0029 | 258472 | 6958448 | 523 | -55 | 45 | 196 | 75 | 85 | 10 | 1.8 | 170 |
| | | | | | | | **incl. 7m @ 2.2% Li2O and 154ppm Ta2O5 from 77m** | | | | |
| | | | | | | | 97 | 106 | 9 | 1.2 | 110 |
| | | | | | | | **incl. 3m @ 1.7% Li2O and 89ppm Ta2O5 from 98m** | | | | |
| | | | | | | | 125 | 133 | 8 | 1.4 | 251 |
| | | | | | | | **incl. 2m @ 2% Li2O and 300ppm Ta2O5 from 126m** | | | | |
| | | | | | | | **incl. 2m @ 1.8% Li2O and 252ppm Ta2O5 from 129m** | | | | |
| | | | | | | | 182 | 188 | 6 | 1.9 | 128 |
| | | | | | | | **incl. 4m @ 2.4% Li2O and 135ppm Ta2O5 from 183m** | | | | |
| | | | | | | | 176 | 177 | 1 | 1.1 | 74 |

## Appendix 1 (cont.) – Kathleen Valley – Drill hole statistics

| Hole_ID | East | North | RL | Dip | Azimuth | Depth (m) | Significant Li2O (>0.4%) and Ta2O5 (>50ppm) results | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | From(m) | To(m) | Interval(m) | Li2O (%) | Ta2O5 (ppm) |
| KVRC0030 | 258464 | 6958540 | 515 | -55 | 45 | 140 | 16 | 25 | 9 | 1.6 | 118 |
| | | | | | | | **incl. 6m @ 2% Li2O and 124ppm Ta2O5 from 18m** | | | | |
| | | | | | | | 37 | 44 | 7 | 1.1 | 80 |
| | | | | | | | **incl. 3m @ 1.8% Li2O and 123ppm Ta2O5 from 40m** | | | | |
| | | | | | | | 99 | 103 | 4 | 0.9 | 331 |
| | | | | | | | 113 | 117 | 4 | 1.3 | 492 |
| | | | | | | | **incl. 1m @ 2% Li2O and 404ppm Ta2O5 from 115m** | | | | |
| KVRC0031 | 258435 | 6958512 | 516 | -55 | 45 | 160 | 52 | 61 | 9 | 1.7 | 126 |
| | | | | | | | **incl. 6m @ 2% Li2O and 121ppm Ta2O5 from 54m** | | | | |
| | | | | | | | 85 | 93 | 8 | 1.4 | 99 |
| | | | | | | | **incl. 4m @ 1.8% Li2O and 113ppm Ta2O5 from 87m** | | | | |
| | | | | | | | 106 | 110 | 4 | 2 | 312 |
| | | | | | | | 116 | 118 | 2 | 1.5 | 268 |
| KVRC0032 | 258426 | 6959404 | 510 | -55 | 45 | 100 | 39 | 44 | 5 | 1.6 | 124 |
| | | | | | | | **incl. 3m @ 2.1% Li2O and 150ppm Ta2O5 from 40m** | | | | |
| | | | | | | | 67 | 68 | 1 | 1.3 | 197 |
| KVRC0033 | 258802 | 6959298 | 512 | -55 | 45 | 140 | 6 | 9 | 3 | 0.9 | 223 |
| | | | | | | | 52 | 57 | 5 | 1.2 | 157 |
| | | | | | | | **incl. 2m @ 2.2% Li2O and 167ppm Ta2O5 from 54m** | | | | |
| | | | | | | | 114 | 118 | 4 | 1.2 | 152 |
| KVRC0034 | 258653 | 6959155 | 518 | -55 | 45 | 120 | 18 | 19 | 1 | 0.6 | 112 |
| | | | | | | | 21 | 24 | 3 | 1.5 | 156 |
| | | | | | | | **incl. 2m @ 1.9% Li2O and 187ppm Ta2O5 from 22m** | | | | |
| | | | | | | | 53 | 55 | 2 | 0.9 | 177 |
| | | | | | | | 60 | 64 | 4 | 1.4 | 160 |
| | | | | | | | **incl. 2m @ 2% Li2O and 236ppm Ta2O5 from 61m** | | | | |
| | | | | | | | 68 | 70 | 2 | 1.2 | 123 |
| | | | | | | | 78 | 95 | 17 | 1.4 | 161 |
| | | | | | | | **incl. 4m @ 2% Li2O and 268ppm Ta2O5 from 79m** | | | | |
| | | | | | | | **incl. 4m @ 2.3% Li2O and 162ppm Ta2O5 from 90m** | | | | |
| KVRC0035 | 258694 | 6959195 | 516 | -55 | 45 | 120 | Assays pending | | | | |
| KVRC0036 | 258733 | 6959232 | 514 | -55 | 45 | 140 | | | | | |
| KVRC0037 | 258730 | 6959085 | 516 | -55 | 45 | 120 | | | | | |
| KVRC0038 | 258774 | 6959131 | 514 | -55 | 45 | 120 | | | | | |
| KVRC0039 | 258803 | 6959163 | 513 | -55 | 45 | 120 | | | | | |
| KVRC0040 | 258836 | 6959192 | 512 | -55 | 45 | 140 | | | | | |

* True widths estimated as follows:
Holes drilled towards NE (040-055), true widths 85-95% of downhole width
Holes drilled towards SW (040-055), true widths 30-50% of downhole width
KVRC0015 true widths ~30% of downhole width

## Appendix 2 – Kathleen Valley PROJECT - JORC Table 1

### Section 1 Sampling Techniques and Data

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| ***Sampling techniques*** | *Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.* | Sub surface chip samples have been collected by reverse circulation (RC) drilling techniques (see below).<br>Where access permits, drill holes are oriented perpendicular to the interpreted strike of the mineralised trend.<br>Liontown rock chips - representative 1-3kg chip samples collected across zone being sampled.<br>Historic sampling techniques not well documented. |
| | *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.*<br>*Aspects of the determination of mineralisation that are Material to the Public Report.*<br>*In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.* | RC samples are collected by the metre from the drill rig cyclone as two 1m split samples in calico bags and a bulk sample in a plastic mining bags.<br>The 1m samples from the cyclone are retained for check assaying.<br>Only samples of pegmatite and adjacent wall rock are collected for assay, approximately 4m either side of the pegmatite for each interval. |
| ***Drilling techniques*** | *Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).* | Drilling techniques used at Kathleen Valley comprise:<br>• Reverse Circulation (RC/5.5") with a face sampling hammer |
| ***Drill sample recovery*** | *Method of recording and assessing core and chip sample recoveries and results assessed.* | Sample recoveries are visually estimated and recorded for each metre. To date sample recoveries have averaged >95%. |
| | *Measures taken to maximise sample recovery and ensure representative nature of the samples.* | Drill collars are sealed to prevent sample loss and holes are normally drilled dry to prevent poor recoveries and contamination caused by water ingress. Wet intervals are noted in case of unusual results. |
| | *Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.* | None noted as yet. |
| ***Logging*** | *Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.* | All drill holes are logged on 1 m intervals and the following observations recorded:<br>Recovery, quality (i.e. degree of contamination), wet/dry, hardness, colour, grainsize, texture, mineralogy, lithology, structure type and intensity, pegmatite and vein type and %, lithium mineralogy and %, alteration assemblage and magnetic susceptibility. |
| | *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.* | Logging is quantitative, based on visual field estimates. |
| | *The total length and percentage of the relevant intersections logged.* | Holes are logged from start to finish. |

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| ***Sub-sampling techniques and sample preparation*** | *If core, whether cut or sawn and whether quarter, half or all core taken.* | Not applicable. |
| | *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* | RC samples are initially collected as rotary split samples. Samples are typically dry. |
| | *For all sample types, the nature, quality and appropriateness of the sample preparation technique.* | Sample preparation follows industry best practice standards and is conducted by internationally recognised laboratories; i.e.<br><br>Oven drying, jaw crushing and pulverising so that 85% passes -75microns. |
| | *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.* | Duplicates and blanks submitted approximately every 25 samples.<br><br>Standards are submitted every 25 samples or at least once per hole. |
| | *Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.* | Measures taken include:<br>• regular cleaning of cyclones and sampling equipment to prevent contamination;<br>• statistical comparison of duplicates, blanks and standards. |
| | *Whether sample sizes are appropriate to the grain size of the material being sampled.* | Sample size is considered appropriate for the stage of exploration |
| ***Quality of assay data and laboratory tests*** | *The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.* | Initial assaying (2017) completed by ALS Perth. Subsequent assaying (2018) completed by NAGROM Laboratories Perth. Both labs use industry standard procedures for rare metals such as Li and Ta. Analytical techniques are total. |
| | *For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.* | None used |
| | *Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established* | See above. |
| ***Verification of sampling and assaying*** | *The verification of significant intersections by either independent or alternative company personnel.* | Internal review by alternate company personnel. |
| | *The use of twinned holes.* | None undertaken |
| | *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.* | Drill data entered directly into excel spreadsheets onsite while drilling is ongoing. Data then entered into Access Database and validated before being processed by industry standard software packages such as MapInfo and Micromine.<br><br>Representative chip samples are collected for later reference. |
| | *Discuss any adjustment to assay data.* | Li% converted to $Li_2O$% by multiplying by 2.15, Ta ppm converted to $Ta_2O_5$ ppm by multiplying by 1.22 |
| ***Location of data points*** | *Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.* | All drill holes and geochemical samples are located using a hand held GPS.<br><br>All RC holes have been surveyed by a digital down hole camera provided by drill contractor. |
| | *Specification of the grid system used* | GDA 94 Zone 51 |

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| | *Quality and adequacy of topographic control.* | Nominal RLs based on regional topographic dataset and GPS. |
| ***Data spacing and distribution*** | *Data spacing for reporting of Exploration Results.* | Varies due to initial drill programs largely designed to test down dip potential of mineralised outcrops. |
| | *Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.* | Not yet. |
| | *Whether sample compositing has been applied.* | None undertaken. |
| ***Orientation of data in relation to geological structure*** | *Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.* | Drilling is typically oriented perpendicular to the interpreted strike of mineralisation.<br>KVRC0015 was oriented at 45° to strike due to access issues and the need to test the main outcrop zone. |
| | *If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.* | No bias observed; however, estimates of true width provided in attached drill hole statistic appendix. |
| ***Sample security*** | *The measures taken to ensure sample security.* | Company geologist supervises all sampling and subsequent storage in field. Same geologist arranges delivery of samples to NAGROM Perth via courier. |
| ***Audits or reviews*** | *The results of any audits or reviews of sampling techniques and data.* | None completed. |

## Section 2 Reporting of Exploration Results

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| ***Mineral tenement and land tenure status*** | *Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.* | The Kathleen Valley Project is located ~680km NE of Perth and ~45km NNW of Leinster in Western Australia. The Project comprises 4 granted mining leases MLs 36/264, 265, 459, 460 and 1 Exploration License E36/879.<br>The mining leases (MLs) and rights to pegmatite hosted rare-metal mineralisation were acquired from Ramelius Resources Limited via a Sales Agreement completed in 2016. The MLs have been transferred to LRL (Aust) Pty Ltd a wholly owned subsidiary of Liontown Resources Limited (LTR).<br>Ramelius acquired 100% of the Kathleen Valley Project MLs in June 2014 from Xstrata Nickel Operations Pty Ltd (Xstrata). Xstrata retains rights to any nickel discovered over the land package via an Offtake and Clawback Agreement.<br>Ramelius retains the rights to gold on the MLs.<br>LRL (Aust) Pty Ltd has assumed the following Agreement:<br>• Bullion and Non-Bullion Royalty Agreement of a 2% Gross Production Royalty affecting M36/264-265 and 459-460.<br>The EL is in the name of Liontown Resources Limited (LTR) with no third party obligations apart from statutory requirements. |

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| | | The tenements are covered by the Tjiwarl Determined Native Title Claim (WC11/7). LTR has signed an Access Agreement with the NT group which largely applies to E36/879.<br><br>LRL (Aust) Pty Ltd has received Section 18 consent to drill on certain areas with M36/459 and M36/460. |
| | *The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.* | All tenements are in good standing. |
| ***Exploration done by other parties*** | *Acknowledgment and appraisal of exploration by other parties.* | Multiple phases of exploration completed for gold and nickel. This has not been reviewed in detail due to other companies retaining the rights to these commodities and Liontown's focus on rare metal pegmatites.<br><br>There has been limited sporadic prospecting for Li, Ta and Sn, principally by Jubilee Mines (subsequently taken over by Xstrata). Work comprised geological mapping, broad spaced soil sample lines and rock chip sampling of the pegmatites. Details of the methods and procedures used have not been documented.<br><br>There has been no previous drill testing of the Li and Ta prospective pegmatites prior to LTR acquiring the Project. |
| ***Geology*** | *Deposit type, geological setting and style of mineralisation.* | The Kathleen Valley Project contains a series of quartz-feldspar-muscovite-spodumene pegmatites hosted in mafic rocks related to the Kathleen Valley Gabbro or Mt Goode Basalts. The Project is located on the western edge of the Norseman- Wiluna Belt within the Archaean Yilgarn Craton.<br><br>The pegmatites are LCT type lithium bearing-pegmatites. |
| ***Drill hole Information*** | *A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:*<br>• *easting and northing of the drill hole collar*<br>• *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar*<br>• *dip and azimuth of the hole*<br>• *down hole length and interception depth*<br>• *hole length.* | See Appendix attached to ASX release. |
| ***Data aggregation methods*** | *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.* | See Appendix attached to ASX release. |
| | *Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.* | See Appendix attached to ASX release. |
| | *The assumptions used for any reporting of metal equivalent values should be clearly stated.* | None calculated. |
| ***Relationship between mineralisation*** | *These relationships are particularly important in the reporting of Exploration Results.* | See Appendix attached to ASX release. |

| Criteria | JORC Code explanation | Commentary |
|---|---|---|
| ***widths and intercept lengths*** | *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.*<br><br>*If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').* | |
| ***Diagrams*** | *Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.* | See Figures in body of report |
| ***Balanced reporting*** | *Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.* | All recent exploration results reported and tabulated. |
| ***Other substantive exploration data*** | *Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.* | All meaningful and material data reported |
| ***Further work*** | *The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).* | Further RC drilling to test for continuity of mineralisation and possible dip and strike extensions.<br><br>Diamond core drilling to provide geological data on mineralisation style and controls.<br><br>Preliminary metallurgical test work. |