

## Assays received at Mt Ida for IDDD002

### Highlights:

- **21.7m @ 2.11% Li<sub>2</sub>O and 302 ppm Ta<sub>2</sub>O<sub>5</sub> and 0.49% Fe<sub>2</sub>O<sub>3</sub> from 250.7m in IDDD002;**
  - including 7.05m @ 3.25% Li<sub>2</sub>O, 223ppm Ta<sub>2</sub>O<sub>5</sub> and 0.59% Fe<sub>2</sub>O<sub>3</sub> from 264.35m
- **Drilling now underway at Mt Ida with initial 25,000m RC and 7,000m Diamond programmes**
- **1<sup>st</sup> pass petrological studies confirming XRD results with Spodumene present as dominant Lithium bearing mineral**

**ACN** 107 244 039

**ASX** RDT

**DATE** 29 October 2021

### ISSUED CAPITAL

Ordinary Shares: 145.4M

\*not including \$15M of loan funds to be converted to 100M shares subject to shareholder approval

### BOARD OF DIRECTORS

Matthew Boyes  
Chief Executive Officer

Alex Hewlett  
Chairman

Brett Mitchell  
Non-Executive Director

James Croser  
Non-Executive Director

Nader El Sayed  
Non-Executive Director

### COMPANY SECRETARY

Steven Wood

### REGISTERED OFFICE

**A** Emerald House,  
1202 Hay Street,  
West Perth WA 6005

**P** +61 8 6109 0104

**E** info@reddirtmetals.com.au

**W** reddirtmetals.com.au

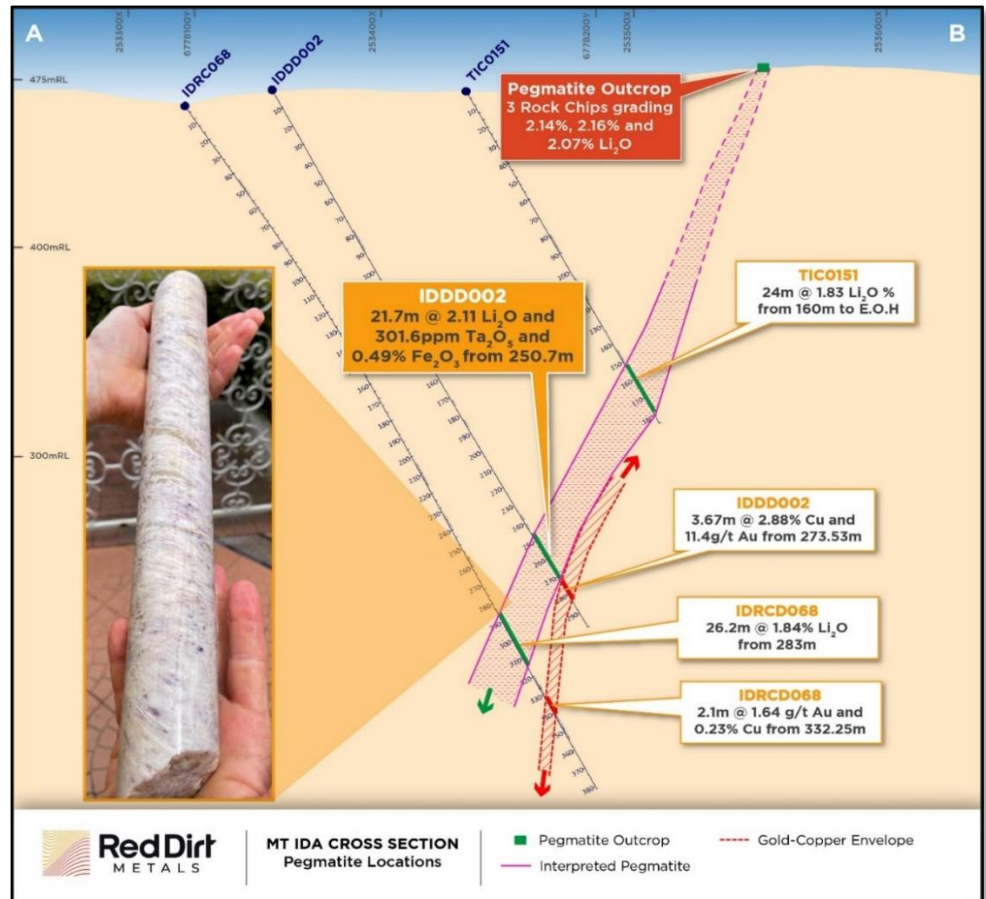


Figure 1; Mt Ida drill section showing historic drilling with IDDD002 assays plotted. NQ diamond core from IDDD002 (267.1m to 267.7m)

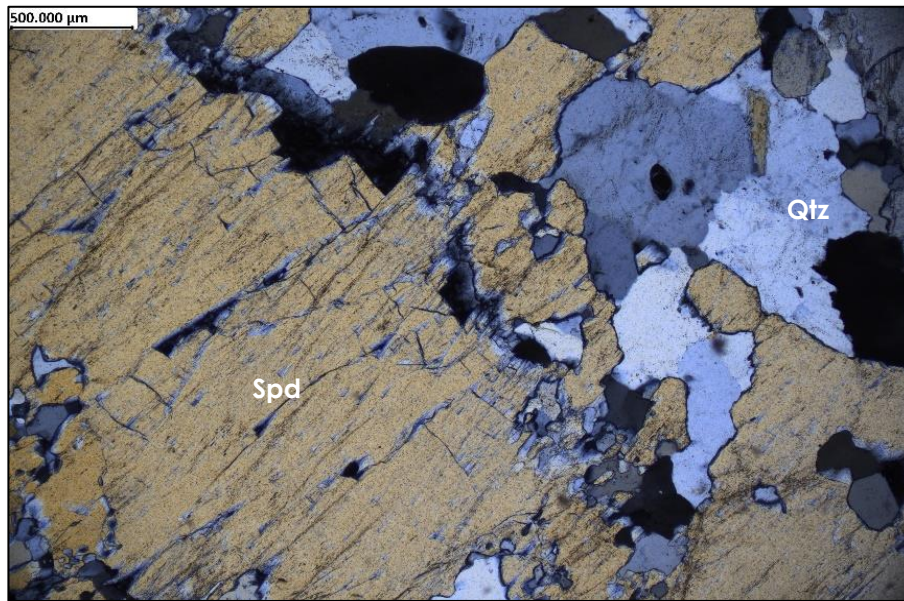
Red Dirt Metals (ASX: RDT) ("Red Dirt" or the "Company") is pleased to report the assay results for drillhole IDDD002, which was drilled by previous operator of the Mt Ida Project La Mancha Resources in 2006. The pegmatite interval within the core had not been previously cut or analysed until being submitted by Red Dirt after the visual identification of Lithium bearing minerals in the drill core.

Assay results of **21.7m @ 2.11% Li<sub>2</sub>O and 302 ppm Ta<sub>2</sub>O<sub>5</sub>** in conjunction with low iron content (0.49% Fe<sub>2</sub>O<sub>3</sub>) have now confirmed the high-grade potential of the Mt Ida pegmatites.

## CEO Matthew Boyes commented on the commencement of drilling,

"These assay results confirm the potential the Mt Ida system has of hosting very high grade lithium-caesium-tantalum (LCT) bearing pegmatites in a system that's relatively unexplored to date for this style of mineralisation. Walk up drill targets under existing known pegmatite outcrops will be initially focused on in the run into Christmas and will help our team build up a better understanding of the structural controls and orientation of these pegmatitic bodies. We look forward to this next phase of exploration."

## Petrological Study



**Figure 2.** Thin section photomicrograph of sample XRD003 (IDDD002 from 261.8m to 262m) in transmitted XPL (5x objective). Coarse spodumene (Spd) shows partial replacement along grain boundaries by quartz as inferred from embayed and irregular quartz (lower right).

Microanalysis Australia has carried out a detailed petrological study on four samples selected from the same batch of samples utilised for the recently reported XRD analysis (ASX release dated 14<sup>th</sup> October titled "Analysis confirms Spodumene dominant pegmatite"). Results of the study have confirmed the initial XRD results with presence of subhedral to euhedral columnar Spodumene crystals up to 1.8cm in width in close association with abundant Albite and Quartz. Several other minerals including Apatite, and lithium bearing Lepidolite and Petalite were also identified in the samples in minor-rare quantities.

Further petrological and XRD work will continue throughout the current drill programme once more sample becomes available to help build a more complete picture of the mineralogical make up of the pegmatites present.

## Next Steps

An RC drill program of 25,000m has been designed, primarily to test the Mt Ida Anorthosite-Mafic corridor located directly to the west of a large granitic complex, with the contact zone trending north-west south-east for approximately 15km within Red Dirt Metals tenement package. The programme is principally designed to step out from existing known pegmatitic intrusive locations, testing both up and down dip potential and to better understand the structural controls and orientation of these intrusives.

The copper-gold potential will also be tested during the same programme with many holes within the central Mt Ida project area able to test all three target commodities contemporaneously. A 7,000m diamond drilling program will be commenced in due course to test deeper intrusive targets, downhole EM targets and produce core samples for first pass metallurgical and follow up XRD characterisation studies.

Authorised for ASX lodgement by the Board.

Red Dirt Metals Limited  
Matthew Boyes  
Chief Executive Officer  
+61 8 6109 0104  
[info@reddirtmetals.com.au](mailto:info@reddirtmetals.com.au)

### **Competent Persons Statement**

Exploration information in this Announcement is based upon work undertaken by Mr Matthew Boyes who is a Fellow of the Australasian Institute of Mining and Metallurgy (AUSIMM). Mr Boyes has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is 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' (JORC Code). Mr Boyes is an employee of Red Dirt Metals Pty Ltd and consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.

**APPENDIX 1: ASSAY DATA FOR ANALYSED INETRVAL OF IDDD002**

HoleID	SampleID	From(m)	To (m)	Length (m)	Li2O pct	Ta2O5 ppm	Fe2O3 pct
<b>IDDD002</b>	L00001	250	250.7	0.7	<b>1.03</b>	<b>148</b>	<b>3.05</b>
<b>IDDD002</b>	L00002	250.7	251.7	1	<b>1.14</b>	<b>143</b>	<b>0.39</b>
<b>IDDD002</b>	L00003	251.7	252.7	1	<b>1.37</b>	<b>143</b>	<b>0.46</b>
<b>IDDD002</b>	L00004	252.7	253.7	1	<b>2.00</b>	<b>261</b>	<b>0.54</b>
<b>IDDD002</b>	L00005	253.7	254.7	1	<b>2.05</b>	<b>304</b>	<b>0.36</b>
<b>IDDD002</b>	L00006	254.7	255.7	1	<b>1.81</b>	<b>192</b>	<b>0.33</b>
<b>IDDD002</b>	L00007	255.7	256.7	1	<b>0.31</b>	<b>321</b>	<b>0.21</b>
<b>IDDD002</b>	L00008	256.7	257.7	1	<b>1.18</b>	<b>308</b>	<b>0.33</b>
<b>IDDD002</b>	L00009	257.7	258.7	1	<b>1.11</b>	<b>455</b>	<b>0.50</b>
<b>IDDD002</b>	L00010	258.7	259.7	1	<b>1.13</b>	<b>393</b>	<b>0.26</b>
<b>IDDD002</b>	L00011	259.7	260.8	1.1	<b>1.71</b>	<b>298</b>	<b>0.43</b>
<b>IDDD002</b>	L00012	260.8	261.8	1	<b>2.51</b>	<b>913</b>	<b>0.39</b>
<b>IDDD002</b>	L00013	261.8	262.8	1	<b>2.14</b>	<b>709</b>	<b>0.64</b>
<b>IDDD002</b>	L00014	262.8	263.95	1.15	<b>1.70</b>	<b>260</b>	<b>0.36</b>
<b>IDDD002</b>	L00015	263.95	264.35	0.4	<b>1.24</b>	<b>83</b>	<b>2.06</b>
<b>IDDD002</b>	L00016	264.35	265.4	1.05	<b>2.93</b>	<b>465</b>	<b>0.67</b>
<b>IDDD002</b>	L00017	265.4	266.4	1	<b>2.75</b>	<b>150</b>	<b>0.94</b>
<b>IDDD002</b>	L00018	266.4	267.4	1	<b>4.06</b>	<b>176</b>	<b>0.56</b>
<b>IDDD002</b>	L00019	267.4	268.4	1	<b>4.13</b>	<b>189</b>	<b>0.41</b>
<b>IDDD002</b>	L00020	268.4	269.4	1	<b>2.53</b>	<b>186</b>	<b>0.46</b>
<b>IDDD002</b>	L00021	269.4	270.4	1	<b>2.94</b>	<b>105</b>	<b>0.53</b>
<b>IDDD002</b>	L00022	270.4	271.4	1	<b>3.41</b>	<b>292</b>	<b>0.54</b>
<b>IDDD002</b>	L00023	271.4	272.4	1	<b>1.76</b>	<b>155</b>	<b>0.44</b>
<b>IDDD002</b>	L00024	272.4	273.55	1.15	<b>0.13</b>	<b>219</b>	<b>0.29</b>

**APPENDIX 2: HISTORIC DRILL HOLE COLLAR COORDINATES FOR LITHIUM-PEGMATITE BEARING DRILL HOLES MT IDA**

HoleID	MGA_North	MGA_East	MGA_RL	MGA_Azi	Dip	Depth
IDDD001	6778221.429	253229.338	475.523	61.1	-61.66	400.08
IDDD002	6778164.374	253328.455	475.675	59.4	-61.75	298.03
IDDD004	6778030.456	253329.06	477.631	53.85	-60.85	392.98
IDRCD068	6778140	253295	468	56	-55	381.5
MIB428	6778800	257865	470	270	-60	49
MIB443	6778500	257890	470	270	-60	50
MIB446	6778500	257965	470	270	-60	36
TIB0145	6778186.995	253711.072	476.091	55	-60	60
TIB0146	6778168.601	253686.241	476.728	55	-60	42
TIB0147	6778164.547	253681.816	476.787	55	-60	60
TIB0148	6778145.601	253656.063	476.482	55	-60	60
TIB0149	6778129.05	253630.188	475.76	55	-60	60
TIB0150	6778114.386	253608.271	475.505	55	-60	60
TIC0058	6778625	253292	472	55	-60	124
TIC0121	6778635	253236	471	55	-60	196
TIC0151	6778126	253441	475	55	-60	184

TIC0154	6778073.201	253543.336	475.497	55	-60	223
TIC0156	6778590	253162	471	55	-60	324
TIC0158	6778594	253168	472	55	-56	120
TIC0159	6778592	253163	472	55	-60	318
TIC0163	6778609	253024	472	51	-60	294
TIC0164	6778717	253018	472	55	-60	148
TIC0165	6778644	252965	472	55	-60	298
TIC0166	6778624	253220	471	55	-60	214
TIC0168	6778621	253162	471	55	-60	292
TIC0179	6778596	253251	474	55	-60	188
TIC0180	6778644	253216	470	55	-60	212
TIC0181	6778614	253170	471	58	-60	295
TIC0183	6778597	253216	473	55	-60	240
TIC0190	6778535	253159	472	55	-58	340
TIC0195	6778108.565	253599.955	475.387	55	-60	156
TIC0210	6778161	253606	476	55	-60	126
TIC0211	6778066.195	253606.171	475.458	55	-60	170
TIC0224	6778609.36	253063.974	472.606	56	-60	258
TIC0247	6778754.86	252949.548	472.061	55	-59	258
TIC0257	6778555.704	253266.628	477.108	52	-60	204
TIC0259	6778655.098	252980.429	473.213	55	-60	294
TIC0260	6778720.045	252985.865	472.488	55	-60	234
TIC0264	6778708	252967	470	54	-58	246
TIC0267	6778659	252934	470	54	-58	258
TID009	6778588	253203	472	56	-59	287.96
TID013	6778611	253202	471	55	-60	240.4

### APPENDIX 3: HISTORIC ROCK CHIP LOCATION COORDINATES AND ASSAY MT IDA

SampleID	MGA_North	MGA_East	MGA_RL	Au_ppm	Li2O_pct	Ta_ppm
MIR144	6778140	253655	470	-0.01	0.04	504.2
MIR145	6778140	253655	470	-0.01	0.05	302.1
MIR146	6778140	253655	470	-0.01	0.33	360
MIR147	6778140	253655	470	-0.01	2.07	329.8
MIR148	6778140	253655	470	-0.01	2.14	301.8
MIR149	6778140	253655	470	-0.01	2.16	171.8
MIR150	6780320	252037	470	-0.01	1.72	538

# JORC Code, 2012 Edition – Table 1

## Section 1 Sampling Techniques and Data

Criteria	Commentary
<b>Sampling techniques</b>	<ul style="list-style-type: none"> <li>• Sampling activities carried out by Red Dirt Metals have included core sampling of one historic drillhole, with assaying, petrological and XRD analysis completed</li> <li>• Limited historical data has been supplied, historic sampling referenced has been carried out by Hammill Resources, International Goldfields, LaMancha Resources, Eastern Goldfields and Ora Banda Mining, and has included reverse circulation (RC) and Diamond (DD) drilling</li> <li>• Sampling of RC chips has been carried out via riffle split for 1m sampling, and scoop or spear sampling for 4m composites.</li> <li>• Core has been cut and sampled to geological intervals</li> <li>• These methods of sampling are considered to be appropriate for this style of exploration</li> </ul>
<b>Drilling techniques</b>	<ul style="list-style-type: none"> <li>• Drilling has been completed by various companies utilising purpose-built RC and DD rigs as well as combination rigs.</li> <li>• DD drilling was NQ sized core</li> <li>• It is assumed industry standard drilling methods and equipment were utilised for all drilling</li> </ul>
<b>Drill sample recovery</b>	<ul style="list-style-type: none"> <li>• Limited sample recovery and condition information has been found</li> </ul>
<b>Logging</b>	<ul style="list-style-type: none"> <li>• Qualitative logging of samples supplied includes lithology, mineralogy, alteration, veining and weathering</li> <li>• It is unknown if core was oriented, some geotechnical logging has been supplied</li> <li>• No core photography has been supplied</li> <li>• Logging is suitable to support Mineral resource estimates and subsequent mining studies</li> </ul>
<b>Sub-sampling techniques and sample preparation</b>	<ul style="list-style-type: none"> <li>• Samples were collected for ICPMS analysis via selection from NQ half and quarter core, and submitted to Nagrom Laboratories</li> <li>• Samples were dried, crushed and pulverised to 80% passing 75 microns before undergoing a peroxide fusion digest with ICP finish</li> <li>• Semi-Quantitative XRD analysis was carried out by Microanalysis Australia using a representative sub-sample that was lightly ground such that 90% was passing 20 µm to eliminate preferred orientation</li> <li>• Historic sampling methods include single metre riffle split and 4m composites that were either scoop or spear sampled.</li> <li>• Historic samples were analysed at LLAS, Genalysis and unspecified laboratories.</li> <li>• Au analysis techniques included aqua regia and fire assaying</li> <li>• Multielement analysis was carried with mixed acid digest and ICP-MS determination</li> <li>• No standards were used by Red Dirt Metals in the ICP analysis or XRD quantification process. Internal duplicate and repeat analyses were carried out as part of the assay process by Nagrom, as well as internal standard analysis. All QAQC analyses were within tolerance</li> <li>• Limited historic QAQC data has been supplied, industry standard best practice is assumed</li> </ul>
<b>Quality of assay data and laboratory tests</b>	<ul style="list-style-type: none"> <li>• The assay method utilised by Nagrom allows for total dissolution of the sample</li> <li>• A standard mica phases was used for the XRD analysis. It is possible that a lithium bearing mica such as lepidolite is present. A subsequent analysis technique would be required for confirmation</li> </ul>

Criteria	Commentary
	<ul style="list-style-type: none"> <li>All historic samples are assumed to have been prepared and assayed by industry standard techniques and methods</li> </ul>
<b>Verification of sampling and assaying</b>	<ul style="list-style-type: none"> <li>Significant intercept verification</li> <li>No adjustments to assay data other than conversion from Li to Li<sub>2</sub>O and Ta to Ta<sub>2</sub>O<sub>5</sub></li> </ul>
<b>Location of data points</b>	<ul style="list-style-type: none"> <li>MGA94 zone 51 grid coordinate system is used</li> <li>Collars are recorded as being picked up by DGPS</li> <li>Downhole surveys were completed by Eastman single shot and multi shot downhole camera</li> </ul>
<b>Data spacing and distribution</b>	<ul style="list-style-type: none"> <li>Drill hole spacing is variable throughout the programme</li> <li>Spacing is considered appropriate for this style of exploration and development drilling</li> </ul>
<b>Orientation of data in relation to geological structure</b>	<ul style="list-style-type: none"> <li>Drill holes are orientated perpendicular to the regional trend of the mineralisation previously drilled at the project; drill hole orientation is not considered to have introduced any bias to sampling techniques utilised</li> </ul>
<b>Sample security</b>	<ul style="list-style-type: none"> <li>Samples were selected and transported by Red Dirt Metals staff directly to Nagrom and Microanalysis Laboratories</li> </ul>
<b>Audits or reviews</b>	<ul style="list-style-type: none"> <li>None carried out</li> </ul>

## Section 2 Reporting of Exploration Results

Criteria	Commentary
<b>Mineral tenement and land tenure status</b>	<ul style="list-style-type: none"> <li>Drilling has been carried on M29/2</li> <li>The tenement is in good standing</li> </ul>
<b>Exploration done by other parties</b>	<ul style="list-style-type: none"> <li>The area has a long history of gold and base metals exploration and mining, with gold being discovered in the district in the 1890s. Numerous generations of exploration have been completed including activities such as drilling, geophysics and geochemical sampling</li> <li>Targeted Li assaying was first carried out in the early 2000s by La Mancha Resources and more recently in 2020 Lithium assays were com</li> </ul>
<b>Geology</b>	<ul style="list-style-type: none"> <li>The Mt Ida project is located within the Eastern Goldfields region of Western Australia within the Mt Ida/Ularring greenstone belt</li> <li>Locally The Kurrajong Antiform dominates the regional structure at Mount Ida, a south-southeast trending, tight isoclinal fold that plunges at a low angle to the south. The Antiform is comprised of a layered greenstone sequence of mafic and ultramafic rocks.</li> <li>Late stage granitoids and pegmatites intrude the sequence.</li> </ul>
<b>Drill hole Information</b>	<ul style="list-style-type: none"> <li>A list of the drill hole coordinates, orientations and metrics are provided as an appended table</li> </ul>
<b>Data aggregation methods</b>	<ul style="list-style-type: none"> <li>No metal equivalents are used</li> </ul>

Criteria	Commentary
<b>Relationship between mineralisation widths and intercept lengths</b>	<ul style="list-style-type: none"> <li>The geometry of the mineralisation is currently unknown although preliminary interpretation suggests the Pegmatite intrusive sills and bodies are orientated sub-parallel to the Mt Ida Granitic intrusion and the northwest trending Amphibolite mafic units which bound the western and eastern limbs of the intrusive</li> </ul>
<b>Diagrams</b>	<ul style="list-style-type: none"> <li>Figures have been included in the announcement</li> </ul>
<b>Balanced reporting</b>	<ul style="list-style-type: none"> <li>It is not practical to report all historical exploration results from the Mount Ida Project. Relevant collars and details are contained within the body of the announcement</li> </ul>
<b>Other substantive exploration data</b>	<ul style="list-style-type: none"> <li>None completed at this time</li> </ul>
<b>Further work</b>	<ul style="list-style-type: none"> <li>Drilling has commenced at Mt Ida with an initial 25,000m programme consisting of a mix of RC and diamond drilling underway</li> <li>Aircore and geochemical drilling will also be commenced along strike from the Mt Ida central area with the objective of targeting the pegmatite outcrops located in the mafic sequence sitting to the west of the Mt Ida granitic complex</li> </ul>