ASX Announcement | 10th September 2025

Lucy Creek 2 assays verify manganese up to 35.0% Mn with hydrothermal signature

Litchfield Minerals Limited (ASX: LMS) ("Litchfield" or "the Company") is pleased to report laboratory assays (Bureau Veritas) from surface sampling at Lucy Creek 2, Northern Territory.

Results confirm high-grade manganese with percent-level barium (barite) and elevated base-metal pathfinders, consistent with a hydrothermal manganese system rather than simple supergene enrichment.

Key Takeaways:

- Extensive surface exposures of Manganese to **35.0% Mn**
- Barium to **2.95% Ba** (percent-scale; indicative of barite)
- Hydrothermal signature: anomalous Pb-Zn-Ag ± Co

Managing Director's Comment:

"Laboratory assays have upgraded Lucy Creek 2 to a highly compelling hydrothermal manganese opportunity with genuine base-metal credentials. Grades up to 35.0% Mn together with percent-level barium and anomalous base metal pathfinders (Pb-Zn-Ag ± Co) are consistent with a potential hydrothermal origin for manganese. A hydrothermal origin opens the door to a potentially larger tonnage system than what would be expected from supergene enriched surface processes".

"Once funded from the current Share Purchase Plan (SPP,) we intend to fly high-resolution airborne magnetics and radiometrics, partly funded by the NT Government, over Lucy Creek in 2025 to improve geological understanding, followed by targeted ground EM to assess subsurface Mn and sulphide distribution. The aim is clear: define ranked drill targets and commence first-pass RC drilling in 2026. In parallel, we'll finalise product specification sheets and open NDA-backed discussions with manganese and industrial-minerals buyers to accelerate commercial pathways alongside the exploration program"

QA note: *Given the high Mn–Ba, the Company will commission borate fusion (total) assays at Bureau Veritas to confirm absolute grades and remove any partial-digest bias that can be common in four-acid methods where barite is present.*

Lucy Creek 2 Rock Chip Sampling

A total of eleven rock chip samples were collected to assess the potential for REE anomalism within surface exposures of massive manganese, iron and kaolinite (Figures 1, 2, Table 1, Appendix 1, JORC Code Table).

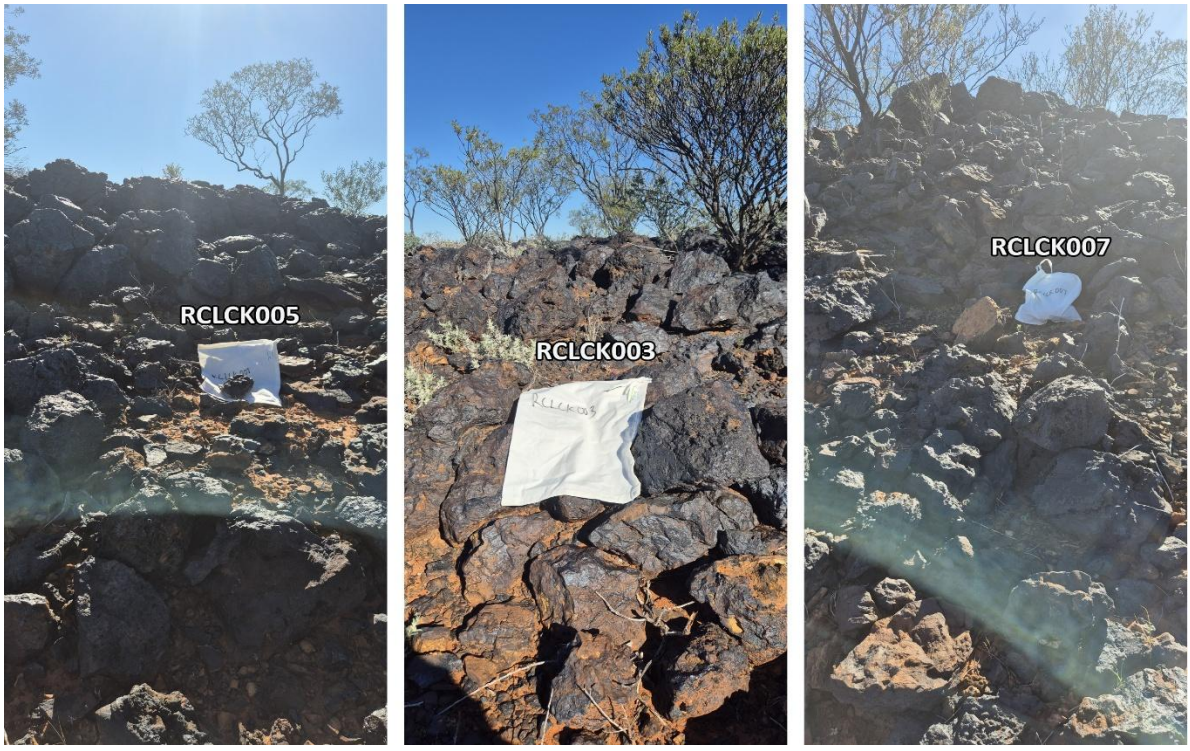

Figure 1. *Representative Lucy Creek 2 outcrop photos of sampled massive manganese mineralisation (see Appendix 1 for sample coordinates).*

IDENT	Ag	Ba	Co	Cu	Fe	Mn	Mo	Ni	P	Pb	Sr	Zn
UNITS	g/t	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm
RCLCK001	4	2.95%	1260	206	2.29%	24.60%	10	26	1850	198	518	216
RCLCK002	0.8	0.31%	139	44	27.20%	25.20%	14.5	98	2550	613	156	322
RCLCK003	1	0.56%	115	34	21.80%	20%	17.5	62	1550	594	79	306
RCLCK004	1.2	0.23%	78	42	18.80%	6.76%	3.5	28	550	26	82	206
RCLCK005	0.8	0.26%	227	44	33.70%	17.50%	5.5	54	2300	135	75	470
RCLCK006	0.8	0.26%	255	58	36.50%	12.40%	4.5	96	1600	151	75.5	598
RCLCK007	4.4	1.30%	331	50	18.90%	21.90%	8	30	700	476	90.5	318
RCLCK008	<0.2	0.02%	22	20	29.80%	0.39%	2.5	18	1000	457	19	140
RCLCK009	0.6	0.03%	14	20	32.20%	0.34%	10	22	2650	584	25.5	140
RCLCK010	6.8	2.77%	666	64	1.13%	35%	7	42	1250	423	276	378
RCLCK011	4.8	0.94%	385	56	16%	27.80%	13	44	1050	1050	125	334

Table 1. *July Lucy Creek 2 rock chip samples assays (Bureau Veritas).*

Potential Hydrothermal Signature

Manganese mineralisation at Lucy Creek 2 is consistently anomalous in base metal pathfinder elements (Pb-Zn-Ag ± Co) and may indicate a hydrothermal origin for the system. This is a critical observation because hydrothermal manganese deposits are not limited to surface weathering processes and so have the capacity to produce larger tonnage systems than just the Lucy Creek 2 surface exposures. Hydrothermal manganese deposits can have multiple stacked mineralised zones, further expanding tonnage potential (e.g.; Bootu Creek Manganese deposit, 32.5Mt @ 22.6% Mn, OM Holdings Ltd, 2007).

Hydrothermal systems are commonly structure-controlled, enabling efficient targeting via structural mapping and geophysics and, where justified, higher-confidence drilling. Once borate-fusion assays by BV confirm absolute Mn/Ba totals, and pending the success of the SPP, we'll execute geophysics-led targeting.

Litchfield Minerals has been awarded $48,059 through the NTGS Geophysics and Drilling Collaboration Grant (GDC) to complete a detailed airborne magnetic and radiometric survey over EL33568 (200m / 100m line-spacing)[1]. This data will be a significant improvement on the existing 400m historic data and will allow Litchfield to develop high confidence geological and structural interpretations over our key targets (e.g.; Lucy Creek 2, Halfway Dam).

Given that semi-massive and massive manganese mineralisation is conductive, another logical step at Lucy Creek 2 is to complete a ground electromagnetic survey to help delineate the subsurface extensions of observed surface mineralisation.

[1] ASX announcement 10th June 2025: LMS Secures Strong NT backing through 3 exploration grants"

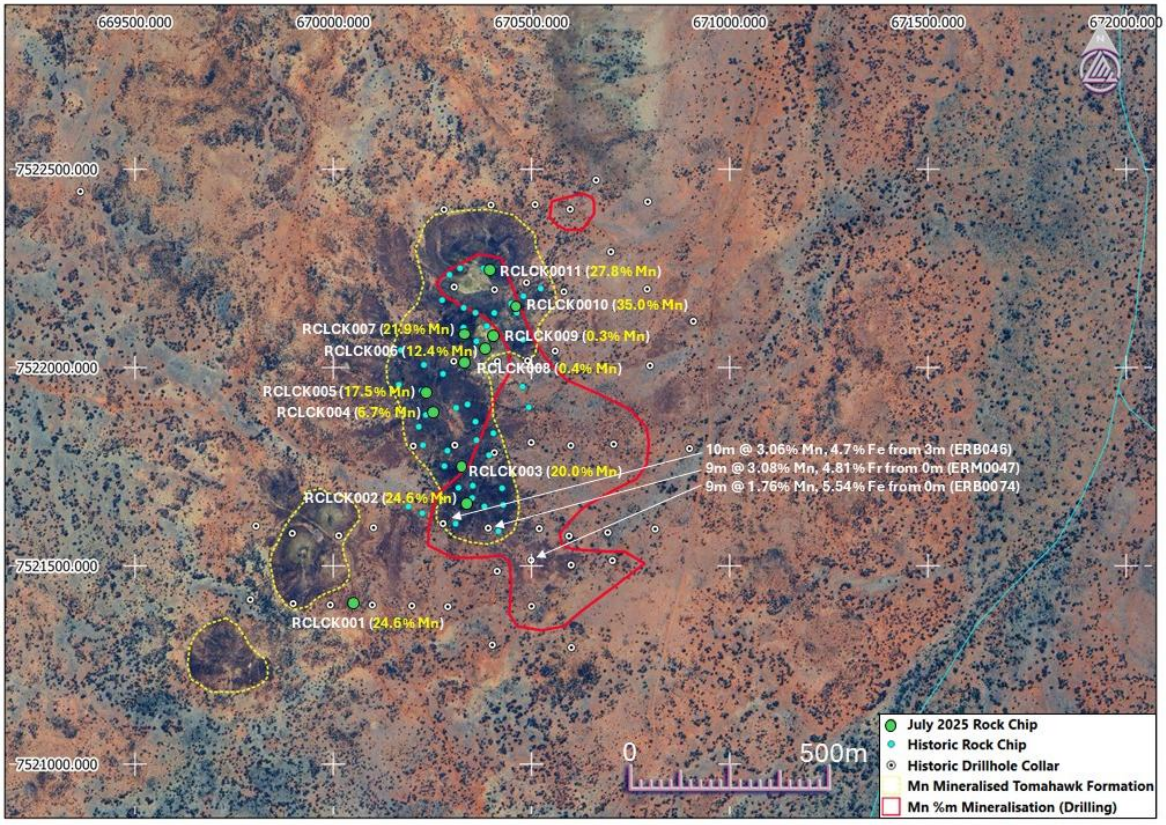

Figure 2. Satellite image of the Lucy Creek 2 prospect showing the location and manganese grade of July 2025 rock chips, along with historic rock chip locations and Elkedra's 2002 RAB drillhole collars (data in appendices 2 and 3).

Upcoming exploration includes Pending SPP funding:

- Phase 2 RC drilling at the Oonagalabi Project to test VTEM conductors and magnetic Au-Bi targets.
- Borate-fusion analysis for total contained Mn and Ba.
- Lucy Creek detailed airborne magnetic and radiometric survey (partially NT Government-funded).
- Lucy Creek ground EM survey targeting conductive zones associated with hydrothermal manganese mineralisation.

Cautionary Statement

This announcement contains forward-looking statements that involve known and unknown risks, uncertainties, and other factors that may cause actual results, performance, or achievements to differ materially from those expressed or implied. Such statements include but are not limited to, interpretations of geophysical data, planned exploration activities, and potential mineralisation outcomes. Forward-looking statements are based on Litchfield Minerals Limited's current expectations, beliefs, and assumptions, which are subject to change in light of new information, future events, and market conditions. While the Company believes that such expectations and assumptions are reasonable, they are inherently subject to business, geological, regulatory, and operational risks. Further work, including drilling, is required to determine the economic significance of any anomalies identified. Investors should not place undue reliance on forward-looking statements. Litchfield Minerals Limited disclaims any obligation to update or revise any forward-looking statements to reflect events or circumstances after the date of this announcement, except as required by law.

About Litchfield Minerals

Litchfield Minerals is a critical mineral explorer, primarily searching for base metals and uranium out of the Northern Territory of Australia. Our mission is to be a pioneering copper exploration company committed to delivering cost-effective, innovative and sustainable exploration solutions. We aim to unlock the full potential of copper and other mineral resources while minimising environmental impact, ensuring the longevity and affordability of this essential metal for future generations. We are dedicated to involving cutting-edge technology, responsible practices and stakeholder collaboration drives us to continuously redefine the industry standards and deliver value to our investors, communities and the world.

The announcement has been approved by the Board of Directors.

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Competent Person's Statement

The information in this Presentation that relates to Exploration Results is based on, and fairly represents, information and supporting documentation compiled by Mr Russell Dow (MSc, BScHons Geology), a Competent Person who is a Member of the Australian Institute of Mining and Metallurgy (AUSIMM) and is a full-time employee of Litchfield Minerals Limited. Mr Dow has sufficient experience that is relevant to the style of mineralisation and types of deposits under consideration and to the activity 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" (JORC Code). Mr Dow consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. With regard to the Company's ASX Announcements referenced in the above Announcement, the Company is not aware of any new information or data that materially affects the information included in the Announcements.

References

Leadbeatter, 2005. Elkedra Diamonds N.L. Final Technical Report EL22534 Lucy Creek East for the period 17th October 2002 to 15th June 2005, CR2005_0680

Litchfield ASX Announcement 10th June, 2025. Litchfield Minerals secures strong NT Government backing through three exploration grants.

McIntyre and Tompkins, 2003. Elkedra Diamonds N.L. Annual Report for period ending April 30, 2003, CR2003_0159.

OM Holdings Ltd, 2007. ASX Announcement 31/10/2007 Annual Report to the Australian Securities Exchange (ASX).

Ross, 2023. Independent geologist report of the Northern Territory exploration assets held by Litchfield Minerals Pty. Ltd.

Appendix 1. July 2025 Soil and Rock Chip Sample Location Information.

Sample#	Prospect	Sam_Type	East	North	CoordRef	Company	Title
RCLCK001	Lucy Creek 2	Rock Chip	670050	7521411	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
RCLCK002	Lucy Creek 2	Rock Chip	670340	7521662	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
RCLCK003	Lucy Creek 2	Rock Chip	670321	7521752	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
RCLCK004	Lucy Creek 2	Rock Chip	670250	7521888	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
RCLCK005	Lucy Creek 2	Rock Chip	670232	7521940	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
RCLCK006	Lucy Creek 2	Rock Chip	670331	7522018	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
RCLCK007	Lucy Creek 2	Rock Chip	670331	7522086	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
RCLCK008	Lucy Creek 2	Rock Chip	670385	7522052	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
RCLCK009	Lucy Creek 2	Rock Chip	670400	7522085	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
RCLCK010	Lucy Creek 2	Rock Chip	670461	7522155	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
RCLCK011	Lucy Creek 2	Rock Chip	670393	7522250	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00301	Bomb Diggity	Soil	486685	7442874	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00302	Bomb Diggity	Soil	486631	7442958	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00303	Bomb Diggity	Soil	486577	7443043	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00304	Bomb Diggity	Soil	486524	7443127	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00305	Bomb Diggity	Soil	486470	7443212	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00306	Bomb Diggity	Soil	486417	7443296	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00307	Bomb Diggity	Soil	486586	7443403	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00308	Bomb Diggity	Soil	486639	7443319	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00309	Bomb Diggity	Soil	486693	7443234	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00310	Bomb Diggity	Soil	486746	7443150	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00311	Bomb Diggity	Soil	486800	7443066	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00312	Bomb Diggity	Soil	486853	7442981	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00313	Bomb Diggity	Soil	487023	7443088	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00314	Bomb Diggity	Soil	486969	7443173	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00315	Bomb Diggity	Soil	486916	7443257	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00316	Bomb Diggity	Soil	486862	7443342	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00317	Bomb Diggity	Soil	486809	7443426	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568
SS00318	Bomb Diggity	Soil	486755	7443511	GDA94_Zone 53	Litchfield Minersl Ltd.	EL33568

Appendix 2. Lucy Creek 2 Historic Rock Chip Samples

SAMPLEID	SAM_TYPE	East	North	CoordRef	COMPANY	TITLE	REPORT_NO	Mn %	Fe %	Ba %	P %	Pb %	Zn %
D0152A	ROCKCHIP	670293	7522234	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	10.1	21.8	0.48	0.19	0.07	0.02
D0153A	ROCKCHIP	670320	7522250	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	3.0	6.3	0.18	0.04	0.07	0.01
D0160A	ROCKCHIP	670480	7522180	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	6.5	27.6	0.80	0.12	0.13	0.02
D0161A	ROCKCHIP	670275	7522170	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	10.2	19.9	0.65	0.04	0.16	0.01
D0162A	ROCKCHIP	670329	7522151	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	0.2	34.4	0.02	0.27	0.04	0.03
D0163A	ROCKCHIP	670406	7522138	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	23.7	19.1	2.55	0.16	0.14	0.03
D0164A	ROCKCHIP	670449	7522161	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	11.1	18.3	1.59	0.07	0.21	0.01
D0165A	ROCKCHIP	670412	7522079	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	0.2	31.2	0.02	0.33	0.05	0.02
D0166A	ROCKCHIP	670329	7522101	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	6.7	39.0	0.34	0.26	0.04	0.03
D0167A	ROCKCHIP	670171	7522044	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	23.5	17.8	0.84	0.27	0.02	0.05
D0168A	ROCKCHIP	670361	7522066	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	0.7	40.7	0.08	0.17	0.04	0.03
D0169A	ROCKCHIP	670479	7522070	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	21.2	28.5	0.59	0.15	0.03	0.01
D0171A	ROCKCHIP	670277	7521984	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	1.5	44.8	0.07	0.41	0.03	0.04
D0172A	ROCKCHIP	670229	7522007	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	1.1	56.2	0.05	0.65	0.01	0.06
D0173A	ROCKCHIP	670165	7521956	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	0.5	45.2	0.08	0.13	0.01	0.02
D0174A	ROCKCHIP	670223	7521941	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	7.8	47.6	0.23	0.23	0.02	0.04
D0175A	ROCKCHIP	670477	7521952	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	4.9	12.5	0.34	0.08	0.06	0.01
D0176A	ROCKCHIP	670493	7521900	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	7.0	15.4	0.24	0.12	0.07	0.01
D0177A	ROCKCHIP	670339	7521907	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	23.1	17.8	0.55	0.1	0.02	0.01
D0178A	ROCKCHIP	670310	7521898	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	20.4	23.8	0.61	0.13	0.09	0.02
D0179A	ROCKCHIP	670234	7521880	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	15.9	30.6	0.28	0.1	0.02	0.05
D0180A	ROCKCHIP	670216	7521851	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	7.5	20.1	0.30	0.08	0.01	0.03
D0181A	ROCKCHIP	670359	7521863	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	2.0	33.1	0.08	0.05	0.01	0.03
D0182A	ROCKCHIP	670404	7521834	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	14.9	27.8	0.61	0.46	0.02	0.01
D0183A	ROCKCHIP	670362	7521817	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	34.7	14.2	0.49	0.06	0.03	0.07
D0184A	ROCKCHIP	670288	7521790	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	4.1	30.0	0.32	0.2	0.05	0.04
D0185A	ROCKCHIP	670227	7521804	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	11.8	12.1	0.44	0.07	0.00	0.04
D0186A	ROCKCHIP	670281	7521751	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	8.9	23.7	0.41	0.16	0.13	0.01
D0187A	ROCKCHIP	670328	7521743	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	17.5	31.9	0.52	0.29	0.05	0.04
D0188A	ROCKCHIP	670393	7521779	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	2.9	27.0	0.14	0.23	0.02	0.02
D0189A	ROCKCHIP	670426	7521696	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	0.8	55.0	0.04	0.27	0.03	0.02
D0190A	ROCKCHIP	670352	7521702	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	11.0	41.3	0.46	0.15	0.02	0.04
D0192	ROCKCHIP	670316	7521697	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	15.5	29.0	0.31	0.19	0.02	0.03
D0194	ROCKCHIP	670225	7521632	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	4.8	9.8	0.52	0.12	0.05	0.02
D0196	ROCKCHIP	670337	7521654	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	25.3	32.5	0.46	0.23	0.12	0.04
D0198	ROCKCHIP	670381	7521650	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	2.0	41.0	0.12	0.31	0.07	0.03
D0200	ROCKCHIP	670429	7521653	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	1.2	44.2	0.06	0.09	0.05	0.04
D0202	ROCKCHIP	670417	7521587	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	9.1	37.1	0.53	0.18	0.45	0.02
D0204	ROCKCHIP	670309	7521606	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	10.2	17.2	0.60	0.13	0.10	0.01
D0219	ROCKCHIP	670359	7522138	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	52.0	0.5	0.00	0	0.02	0.05
D0220	ROCKCHIP	670384	7522244	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	39.4	14.2	0.00	0	0.10	0.05
D0221	ROCKCHIP	670379	7522250	GDA94_Zone 53	Elkedra Diamonds NL	EL22534	CR2005-0680	16.3	35.0	0.00	0	0.14	0.04

Manganese and Iron are rounded to one decimal place, Barium, Phosphorus, Lead and Zinc are rounded to two decimal places

Appendix 3. Elkedra Diamonds drillhole collar information from the 2002 RAB program.

HoleRef	Company	Method	Depth	Dip	Azi (TN)	East	North	RL	CoordRef	Map100K	Map250K	Title	ReportID
ERB0037	Elkedra Diamonds	RAB	40	-90	360	670198	7521399		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0038	Elkedra Diamonds	RAB	40	-90	360	670099	7521401	306	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0039	Elkedra Diamonds	RAB	40	-90	360	669993	7521401	305	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0040	Elkedra Diamonds	RAB	40	-90	360	669899	7521405	303	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0041	Elkedra Diamonds	RAB	36	-90	360	669897	7521582	302	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0042	Elkedra Diamonds	RAB	40	-90	360	669805	7521600	302	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0043	Elkedra Diamonds	RAB	40	-90	360	669791	7521415	302	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0044	Elkedra Diamonds	RAB	40	-90	360	670014	7521576	302	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0045	Elkedra Diamonds	RAB	40	-90	360	670102	7521596	296	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0046	Elkedra Diamonds	RAB	40	-90	360	670277	7521606	299	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0047	Elkedra Diamonds	RAB	40	-90	360	670391	7521595	309	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0048	Elkedra Diamonds	RAB	40	-90	360	670520	7521594	301	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0049	Elkedra Diamonds	RAB	40	-90	360	670595	7521575	303	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0050	Elkedra Diamonds	RAB	40	-90	360	670693	7521584	300	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0051	Elkedra Diamonds	RAB	40	-90	360	670707	7521806	299	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0052	Elkedra Diamonds	RAB	40	-90	360	670599	7521803	295	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0053	Elkedra Diamonds	RAB	30	-90	360	670560	7522042	307	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0054	Elkedra Diamonds	RAB	39	-90	360	670598	7522399	300	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0055	Elkedra Diamonds	RAB	40	-90	360	670582	7522191	287	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0056	Elkedra Diamonds	RAB	35	-90	360	670509	7522411	291	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0057	Elkedra Diamonds	RAB	35	-90	360	670487	7522214	295	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0059	Elkedra Diamonds	RAB	37	-90	360	670490	7522017	309	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0060	Elkedra Diamonds	RAB	40	-90	360	670500	7521811	297	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0061	Elkedra Diamonds	RAB	18	-90	360	670663	7522473	305	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0062	Elkedra Diamonds	RAB	40	-90	360	670407	7521785	200	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0063	Elkedra Diamonds	RAB	30	-90	360	670414	7522016	312	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0064	Elkedra Diamonds	RAB	40	-90	360	670407	7522196	294	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0065	Elkedra Diamonds	RAB	30	-90	360	670398	7522410	307	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0066	Elkedra Diamonds	RAB	36	-90	360	670279	7522398	292	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0067	Elkedra Diamonds	RAB	40	-90	360	670305	7522203	298	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0068	Elkedra Diamonds	RAB	40	-90	360	670304	7522016		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0069	Elkedra Diamonds	RAB	40	-90	360	670307	7521804		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0070	Elkedra Diamonds	RAB	30	-90	360	670202	7521802		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0071	Elkedra Diamonds	RAB	30	-90	360	670812	7521593	298	GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0072	Elkedra Diamonds	RAB	27	-90	360	670704	7521513		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0073	Elkedra Diamonds	RAB	29	-90	360	670600	7521502		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0074	Elkedra Diamonds	RAB	24	-90	360	670499	7521514		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0075	Elkedra Diamonds	RAB	21	-90	360	670414	7521486		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0076	Elkedra Diamonds	RAB	24	-90	360	670289	7521397		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0077	Elkedra Diamonds	RAB	30	-90	360	670500	7521398		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0078	Elkedra Diamonds	RAB	21	-90	360	670601	7521294		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0079	Elkedra Diamonds	RAB	21	-90	360	670401	7521300		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0080	Elkedra Diamonds	RAB	30	-90	360	670899	7521796		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0081	Elkedra Diamonds	RAB	19	-90	360	670799	7522005		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0082	Elkedra Diamonds	RAB	20	-90	360	670909	7522117		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0083	Elkedra Diamonds	RAB	10	-90	360	670792	7522198		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0084	Elkedra Diamonds	RAB	12	-90	360	670794	7522418		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680
ERB0090	Elkedra Diamonds	RAB	17	-90	360	670700	7522292		GDA94_MGA Zone 53	6253	SF5312	EL22534	CR2005-0680

JORC Code, 2012 Edition – Table 1 report

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	• *Nature and quality of sampling (e.g. 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.* • *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.* • *Aspects of the determination of mineralisation that are Material to the Public Report.* • *In cases where 'industry standard' work has been done this would be relatively simple (e.g. '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 (e.g. submarine nodules) may warrant disclosure of detailed information.*	Lichfield Soil Sampling • Soil samples were collected from outcrop / in-situ lithology and in minor cases locally-derived float. • The samples were collected in marked calico bags for assaying. • Samples were collected on a 200m x 100m grid over the surface projected location of the Bomb Diggity magnetic and residual gravity anomalies. Slight deviations were made due to terrain or insufficient soil. • Soil samples were collected from the B-Horizon using a -80 Mesh sieve. Approximately 500g of material was collected in the field per sample. The -80 Mesh fraction is considered representative of the outcrop sampled. • QAQC samples were inserted every 25 samples as per standard Litchfield sampling protocols. • Samples were submitted to Bureau Veritas, Adelaide for multi-element and gold fire assay analysis. Litchfield Rock Chips

Criteria	JORC Code explanation	Commentary
		• Rock chip samples were collected from confirmed outcrops only using geopicks. • The samples were between 0.5 – 1kg and were collected in marked calico bags for assaying. • Sampling was conducted to ensure that the analytical results are representative of the sampled outcrop. True outcrop thicknesses were not calculated and have not been reported. • Rock chip samples were collected by hand. In some instances, multiple samples were collected from a single outcrop to better understand mineralisation variability. • QAQC samples were inserted every 25 samples as per standard Litchfield sampling protocols. • Samples were submitted to Bureau Veritas, Adelaide for multi-element and gold fire assay analysis. Historic Elkedra Rock Chips • No physical sampling information is provided in Elkedra Annual Reports. • Samples were analysed by Genalysis Laboratories Elkedra 2002 RAB Drilling • Rotary Air Blast (RAB) was used to obtain a large sample for each 1m drilled from a cyclone split. Samples were laid out in lines of 20 samples.

Criteria	JORC Code explanation	Commentary
		• Sampling was completed on a 1m basis using a PVC spear. • Sampling of drill spoils was based on visual observation of black sooty manganiferous material. • QAQC reference samples comprised a single 1m duplicate sample per hole. • All samples were assayed using a standard crush and pulverize to -75 microns followed by a 4-Acid digest and an ICP-MS and ICP-OES finish for multi-element analysis at Ultratrace Laboratories.
Drilling techniques	• *Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. 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).*	Elkedra 2002 RAB Drilling • All holes were completed using Rotary Air Blast (RAB) • All holes were vertical at surface but were not surveyed at end of hole. Holes are assumed to be vertical.
Drill sample recovery	• *Method of recording and assessing core and chip sample recoveries and results assessed.* • *Measures taken to maximise sample recovery and ensure representative nature of the samples.* • *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.*	Elkedra 2002 RAB Drilling • No records of drill recovery were reported in the Elkedra Annual Reports. • No relationship has been determined between sample recoveries and grade and there is insufficient data to determine if there is a sample bias.
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.*	Soil and Rock Chip Sampling • Standard geological mapping data was collected at each sampling point, including, lithology, structural

Criteria	JORC Code explanation	Commentary
	• *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.* • *The total length and percentage of the relevant intersections logged.*	measurements and site specific conditions e.g. outcrop versus float, moisture, soil profile depth etc. **Elkedra 2002 RAB Drilling** • Geological logging of RAB drill holes was done on a visual basis with logging including lithology, alteration, mineralisation, structure, weathering, oxidation etc. • Logging of RAB drill samples is qualitative and based on the presentation of representative drill chips retained for all 1m sample intervals in the chip trays. • All drillholes were geologically logged in their entirety.
Sub-sampling techniques and sample preparation	• *If core, whether cut or sawn and whether quarter, half or all core taken.* • *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* • *For all sample types, the nature, quality and appropriateness of the sample preparation technique.* • *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.* • *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.* • *Whether sample sizes are appropriate to the grain size of the material being sampled.*	**Elkedra 2002 RAB Drilling** • No sub-sampling techniques were used. • The sample size is considered appropriate for the mineralisation style, application and analytical techniques used.
Quality of assay data and	• *The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.*	**Litchfield Soil and Rock Chip Sampling**

Criteria	JORC Code explanation	Commentary
laboratory tests	• *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.* • *Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.*	• For July 2025 rock and soil samples. Standard QAQC protocols were employed, inserting a QAQC sample for every 25 samples submitted for analysis. • For portable XRF analysis, standards and blanks are both analysed at the beginning of every sampling session and then repeated every 50 samples. Elkedra Historic Rock Chip Sampling • It is unclear from Elkedra Annual Reports what QAQC protocols were employed. Elkedra 2002 RAB Drilling • The analytical technique used is considered appropriate for manganese oxide-type mineralisation. • For QAQC sampling, Elkedra inserted a single 1m duplicate sample per hole. • Further internal laboratory QAQC procedures included internal batch standards and blanks. • Sample preparation and analysis was completed by Ultratrace Laboratories.
Verification of sampling and assaying	• *The verification of significant intersections by either independent or alternative company personnel.* • *The use of twinned holes.* • *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.*	Elkedra 2002 RAB Drilling • No significant intercepts were recorded.

Criteria	JORC Code explanation	Commentary
	• *Discuss any adjustment to assay data.*	
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.* • *Specification of the grid system used.* • *Quality and adequacy of topographic control.*	Litchfield Soil and Rock Chip Sampling • Sample locations recorded with Garmin 62c hand held PGS unit with accuracy of greater than ±4m, using GDA94/UTM, Zone 53. Elkedra Historic Rock Chip Sampling • Sample location accuracy not specified in Elkedra's Annual Reports. Handheld GPS's from 2005 would typically have an accuracy better than +/- 10m. Elkedra 2002 RAB Drilling • Drill hole collars were surveyed with a handheld GPS with an accuracy of +/- 5m which is considered sufficient for drill hole location accuracy. • Co-ordinates are in GDA94 datum, MGA Zone 53. • Downhole depths are in metres measured downhole from the collar location on surface. • Topographic control has an accuracy of 2m. RL was not recorded for all drillhole collars.
Data spacing and distribution	• *Data spacing for reporting of Exploration Results.* • *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.*	Litchfield Soil and Rock Chip Sampling • Soil samples were collected on a 200m x 100m grid, aligned to 328º True North (historic soil and drilling grid).

Criteria	JORC Code explanation	Commentary
	• *Whether sample compositing has been applied.*	• Rock chip samples were collected randomly where visible mineralisation was observed at surface. Elkedra Historic Rock Chip Sampling • Samples were collected randomly across outcropping mineralised zones without a specified orientation or spacing. Elkedra 2002 RAB Drilling • Drillholes were spaced approximately 100m apart on 200m spaced, east-west traverses. • It is too early to establish if drillhole spacing is sufficient to establish geological continuity. • No sample compositing was completed.
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.* • *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.*	Litchfield Soil and Rock Chip Sampling • The Bomb Diggity soil sampling grid was aligned at 328TN which is perpendicular to the dominant stratigraphy and Oonagalabi mineralisation strike. • All samples are considered representative of the sampled outcrop. Elkedra Historic Rock Chip Sampling • Sampling was completed across the strike of outcropping mineralisation. Elkedra 2002 RAB Drilling • Drilling was completed approximately perpendicular to the north-trending outcropping zone of manganese

Criteria	JORC Code explanation	Commentary
		mineralisation. True thickness of mineralised intervals has not been completed. • It is unknown whether the orientation of sampling achieves unbiased sampling as interpretation of quantitative measurements of mineralised zones/structures has not yet been completed.
Sample security	• *The measures taken to ensure sample security.*	Litchfield Soil and Rock Chip Sampling • All samples were collected under strict data security measures by Litchfield Minerals Ltd. Employee. Elkedra Historic Rock Chip Sampling • No specific measures were noted in the Elkedra Annual Reports. Elkedra 2002 RAB Drilling • No sample security records were reported by Elkedra.
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data.*	• No audits or independent reviews of sampling techniques were complete. QAQC sample analysis for Litchfield data will be reported when final assay data is released to the ASX. Litchfield has reported the historical data based on information available in company reports.

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

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 security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.*	• Tenements include Oonagalabi (EL32279) for a total of 145.3km^2 and 46 sub-blocks and Lucy Creek (EL33568) for a total of 793.59km^2 and 250 sub-blocks. • EL32279 is owned by Kalk Exploration Pty. Ltd., a 100% owned entity of Litchfield Minerals Limited. Oonagalabi is located 125km northeast of Alice Springs on pastoral lease. • EL33568 is owned by Litchfield Minerals Ltd. and is located 320km northeast of Alice Springs on pastoral lease. • The tenements are in good standing and there are no known impediments.
Exploration done by other parties	• *Acknowledgment and appraisal of exploration by other parties.*	• A summary of previous exploration and mining is presented below: • Oonagalabi was discovered in the 1930's. • In 1970, Russgar Minerals completed regional mag-rad survey, VLF_EM survey, ground magnetic survey, single line resistivity traverse and 14 drillholes. • In 1971, Geopeko completed limited IP.

Criteria	JORC Code explanation	Commentary
		• 1979, Amoco completed photo-interpretation, rock chip sampling and drilling (8 holes). • 1981 D'Dor Mining NL completed limited dipole-dipole IP. • Between 1990 – 1996 on EL 6940 Clarence River Finance Group explored for garnet in the Florence and Maud Creeks, collecting 15 samples that averaged 4.4% garnet • Between 1997 – 2000 on EL 9420 Clarence River Finance Group completed garnet exploration north of Oonagalabi EL32279. In 2007, ML 22624 was applied for to cover the central Oonagalabi deposit and surrounding proximal alluvial systems (outside 2025 bulk sampling area). No work was completed and the ML was relinquished in 2019. Historic exploration at Lucy Creek 2 includes: • Historic exploration within EL33568 is limited to manganese, base metals (Mississippi Valley-type), diamonds and oil/gas • Exploration commenced in the 1960's and was predominantly focused on the search for base metals within the Georgina Basin e.g., MVT and stratiform sediment-hosted base metal deposits. • Manganese exploration is restricted to surface geochemical rock chip and soil sampling of outcropping manganese mineralisation and subsequent drilling at Lucy Creek 2 (48 RAB holes, 1,571m) and MRS-79 (23 RAB holes, 392m) by

Criteria	JORC Code explanation	Commentary
		Elkedra Diamonds between 2002 and 2005 (CR2003_0159, CR2005_0680 respectively). • Elkedra also completed extensive diamond exploration, focusing on stream sediment sampling, airphoto and magnetic interpretation (kimberlite pipes) and limited ground magnetic traverses. A fertile kimberlite pipe was ultimately not identified and the tenement was relinquished. • Auvex, in 2012, flew a VTEM survey (299km2, 1697 line km) 20km north of Lucy Creek 2, searching for manganese and lead-zinc (Mississippi Valley-type), under the assumption that Mn and Pb-Zn mineralisation is modestly conductive. VTEM interpretation defined several regional-type / lithologically-related conductive anomalies and four of the highest priority targets were RC drilled but failed to detect any mineralisation. • Exoil Oil drilled a petroleum well in 1966 (Lucy Creek #1, 1,105.5m) as a stratigraphic and structural test of an interpreted closed surface anticline, approximately 1km west of Lucy Creek 2. The well was abandoned as a dry well after hitting igneous basement at 1093.1m. • Carpentaria Exploration Company collected 650 stream and 101 rock chip samples in an area immediately south of the southwestern corner of EL33568 (south of Halfway Dam). Extensive lead stream sediment anomalies were defined in the coarse fraction, however,-80 mesh resampling effectively

Criteria	JORC Code explanation	Commentary
		eliminated all anomalies with the conclusion that base metal mineralisation was scavenged by iron and manganese oxides during a pre-Triassic weathering surface.
Geology	• *Deposit type, geological setting and style of mineralisation.*	• The **Oonagalabi-type** mineralisation is considered to be either sediment-hosted or carbonate replacement with potential for high-grade remobilised breccia zones similar to the Jervois deposit. EL32279 falls within one of Geoscience Australia's IOCG high potential zones. 2025 RC drilling intersected Bi-Au mineralisation within massive magnetite alteration (OGRC002), indicating the presence of a distinctly different style of mineralisation more akin to intrusion-related styles. The Bomb Diggity magnetic and gravity anomalies are currently interpreted to be the source for this newly identified Bi-Au mineralisation. • The Oonagalabi project lies within the Harts Range that represents a package of multiply deformed and metamorphosed sedimentary and igneous intrusive rocks. • Massive manganese at **Lucy Creek 2** is interpreted to represent hydrothermal replacement-style mineralisation similar to that observed at the Bootu Creek deposit in the Northern Territory. Mineralisation comprises semi-massive to massive manganese oxide in a gently east-dipping, 1-13m thick horizon (true width to be confirmed with additional drilling).

Criteria	JORC Code explanation	Commentary

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:*
	  ○ *easting and northing of the drill hole collar*
	  ○ *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar*
	  ○ *dip and azimuth of the hole*
	  ○ *down hole length and interception depth*
	  ○ *hole length.*
	• *If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.*
		• Refer to Appendix 3 for the 2002 Elkedra RAB data.

Data aggregation methods	• *In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.* • *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.* • *The assumptions used for any reporting of metal equivalent values should be clearly stated.*	• No weighting averaging techniques have been reported
Relationship between mineralisation widths and	• *These relationships are particularly important in the reporting of Exploration Results.* • *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.* • *If it is not known and only the down hole lengths are reported,*	• Additional drilling at Lucy Creek 2 is required to quantify the true width of the known mineralisation. • Soil and rock chip sampling was completed across stratigraphy such that analytical results are considered

Criteria	JORC Code explanation	Commentary
intercept lengths	*there should be a clear statement to this effect (e.g. 'down hole length, true width not known').*	representative of the sampled material. True widths were not assessed due to the folded nature of mineralised outcrops.
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 the main body of the announcement.
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.*	• Not applicable as no new assay results are reported.
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.*	• See the main body of this announcement for all pertinent observations and interpretations.
Further work	• *The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).* • *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.*	Future planned exploration includes: • Soil and rock chip sampling of the full surface projected position of the Bomb Diggity magnetic and gravity anomalies. • Airborne EM (VTEM) over all of EL32279 at Oonagalabi. • Diamond drill testing of key magnetic, gravity, chargeability, resistivity and geochemical anomalies at Oonagalabi.

Criteria	JORC Code explanation	Commentary
		• Airborne magnetics and radiometrics over all of EL33568 (200m and 100m line-spacing) • Ground EM at Lucy Creek 2 to detect potential conductive zones associated with massive manganese mineralisation