ASX Announcement | 17th October 2024

SURFACE GEOCHEMICAL SAMPLING CONFIRMS RARE EARTH ELEMENT ANOMALISM AT MT DOREEN

Highlights

- Soil sampling defines extensive areas of rare earth element anomalism within granite-sourced unconsolidated sediments northeast of Wolfram Hill
- Sampling indicates that thorium anomalous granites are the likely source for anomalous transported soils.

Litchfield Minerals Limited (**"Litchfield"** or the **"Company"**) **(ASX:LMS)**, a company with a strategic emphasis on critical minerals, is pleased to announce results from surface geochemical sampling at the Mt Doreen project, Northern Territory.

Managing Director and CEO, Matthew Pustahya, commented:

"We are extremely pleased with the results of our recent surface geochemical sampling at the Mt Doreen project. These results confirm significant areas of rare earth element (REE) anomalism within the granite-derived sediments northeast of Wolfram Hill. The identification of light rare earth elements, particularly cerium, lanthanum and neodymium, highlights the potential for this project to contribute to critical mineral supply chains, which are of increasing importance in today's global markets."

A surface geochemical survey (134 soil samples, 50 rock chip samples) was completed at the Mt Doreen project to assess REE anomalism within granites and associated erosional sediments (**Appendices 1, 2**). Additional geochemical samples were collected at the Clark, Patmungala Copper and the Vaughan Springs fluorine prospects during reconnaissance mapping.

The Mt Doreen project hosts uranium anomalous and subordinate thorium anomalous granites that have been shown by GSW at the nearby Callista Deposit to host significant

volumes of regolith-hosted REE mineralisation[1] (60km southwest of Silver King, **Figure 1**). Similar granites have also been shown by Red Metal (Sybella Granite west of Mt Isa) to host potentially substantial volumes of low-grade, acid-soluble REE mineralisation.[2]

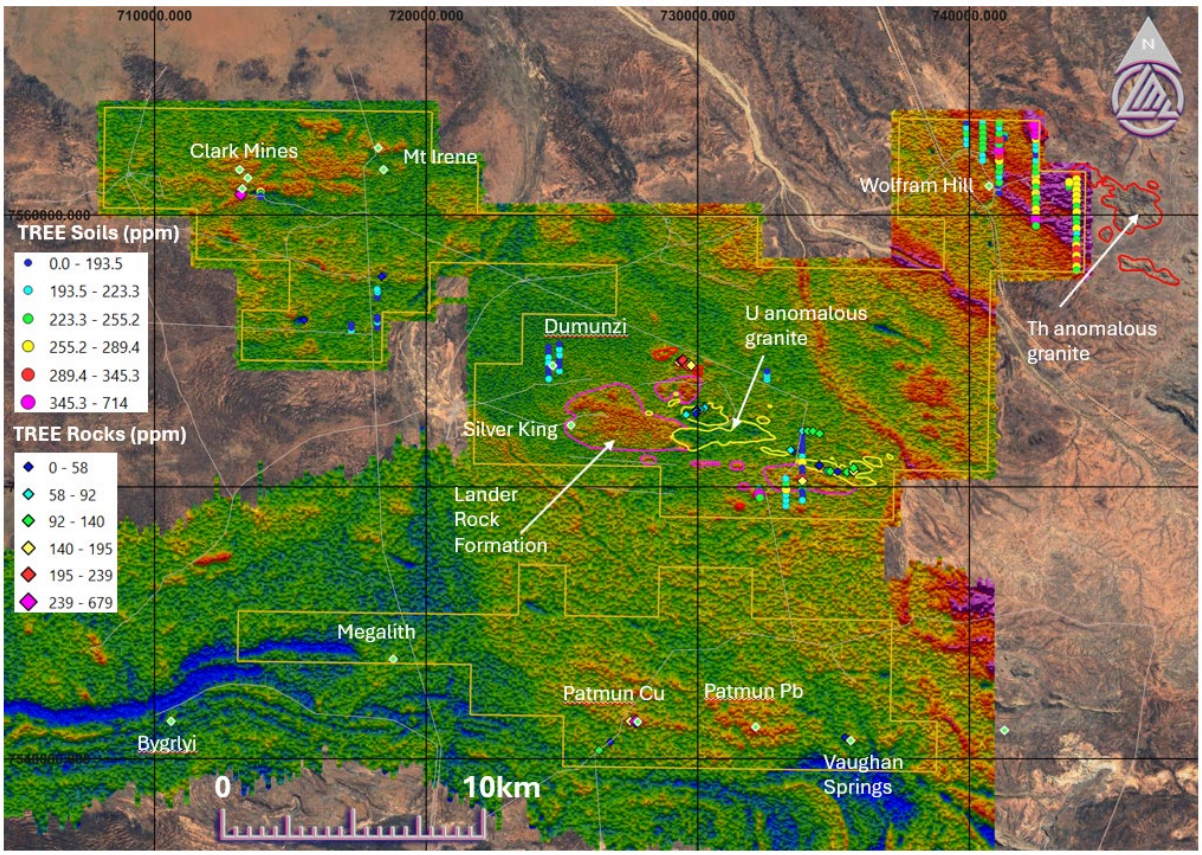


***Figure 1**. Airborne thorium radiometric image over Google satellite image showing the location of rare earth soil and rock chip samples relative to thorium and uranium-anomalous granites and the Lander Rock Formation.*

Rock chip sampling was used to assess REE anomalism within granite outcrops and soil sampling was used to test the granite-derived unconsolidated sediments surrounding the granites. Analytical results indicate that Thorium-anomalous granites have higher REE concentration than uranium-anomalous granites. Data also show that unconsolidated sediments surrounding granites, in general, have higher REE concentrations than the outcropping source granite. This concentration phenomenon is most likely due to different

[1] GEMIS: Geophysics and Drilling Collaborations Program Greenfields Drilling Round 16, 2023-2024 Final Report - Callista Rare Earth Element Project

[2] Red Metal ASX Announcement 11/9/2024: Sybella Rare Earth Discovery Step-Out Drilling Confirms Vast Resource Potential

sampling techniques (-80mesh sieved soils versus non-sieved rock chips), however, sedimentary concentration mechanisms also need to be considered.

Light rare earth elements (LREE) dominate the REE profile (92% versus 8% heavy rare earth elements), represented on average by 42% Cerium, 21% Lanthanum and 19% Neodymium over the full 134 sample suite. The highest grade REE samples were collected from soils developed on a small, sub-cropping thorium-anomalous granite (300m strike) located 7.3km east-southeast of the Silver King prospect (713ppm total REE SS00071, Appendix 1, **Figure 2**). Rock chip samples from thorium-anomalous granites located 5km east-northeast of Silver King peaked at 248ppm TREE (RK00013, Figure 2). Several other highly anomalous REE soil samples were collected in the far northeast of the tenement surrounding the prominent thorium-anomalous granite outcrops (554ppm total rare earth elements, SS00018, **Figure 3**). Wide-spaced soil lines were used in this area and show that unconsolidated sediments (<20m deep) surrounding the granites show **several square kilometres of +250ppm TREE anomalism**. The interpreted depth of transported cover indicates that soil anomalism is probably not related to subsurface geology and more likely represents erosion from surrounding granites. Granite outcrops adjacent to these soils were rock chipped and assayed up to 477ppm TREE (SS00019).

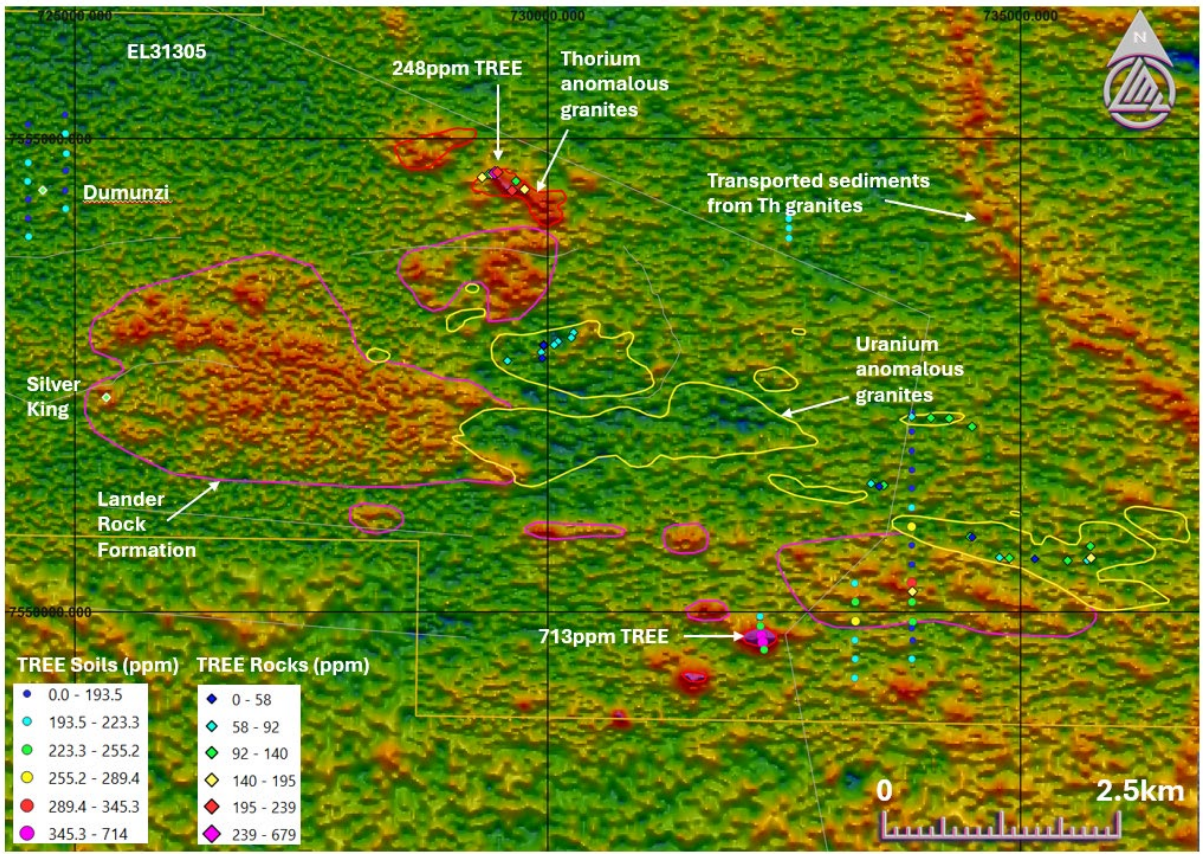


***Figure 2**. Thorium radiometric image showing total rare earth element soils and rock samples and the distribution of thorium and uranium anomalous granites and Lander Rock Formation.*

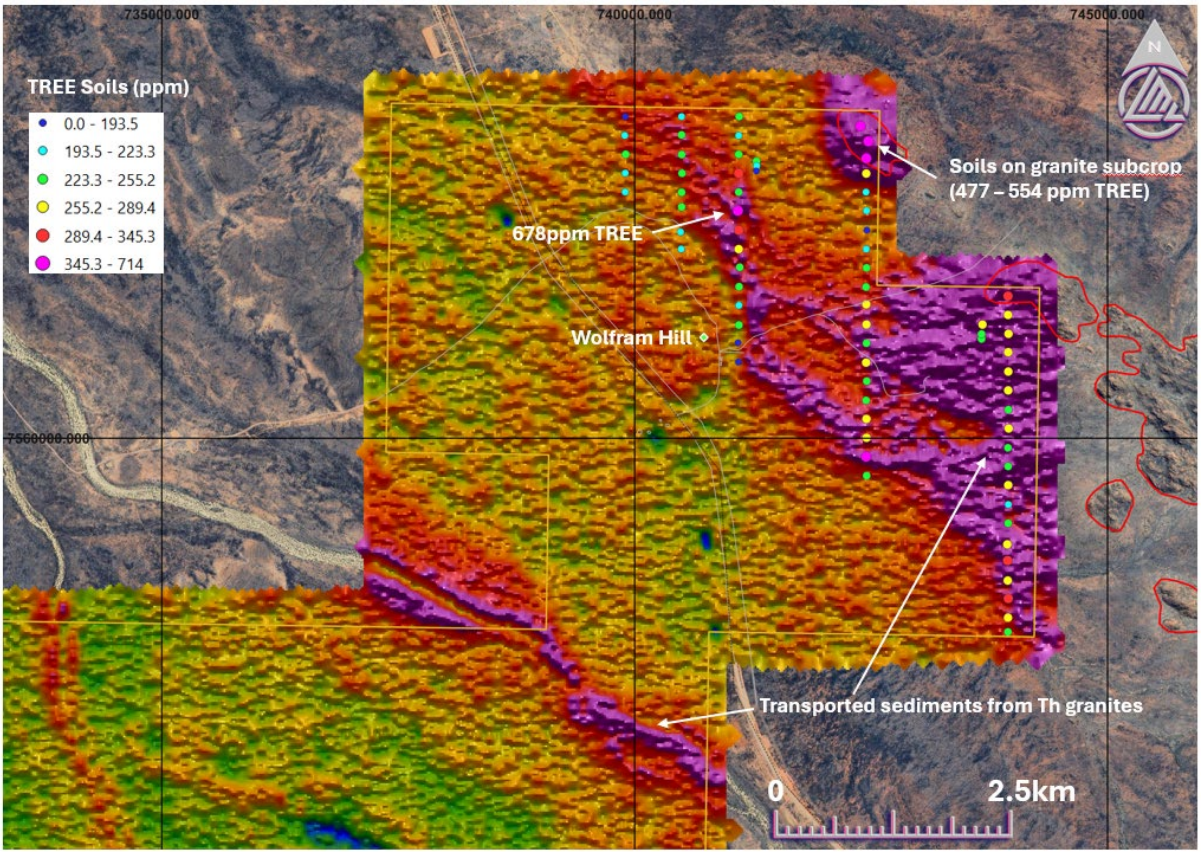


***Figure 3**. Thorium airborne radiometric image over google satellite image in the Wolfram Hill area in the far northeast of EL 31305 showing areas of thorium anomalous granite outcrop (red polygon) and total rare earth element soils samples (TREE). Extensive +250ppm TREE anomalism has been defined within unconsolidated sediments eroded from thorium granites.*

The highest-grade base metal rock chips were collected from the Patmungala Copper prospect (10.1% Cu, 629ppm TREE RK00004, Appendix 2, **Figure 4**) where additional sampling also peaked at 629ppm TREE and 8.2ppm Ag. Reconnaissance mapping at the Vaughan Springs fluorine prospect identified a well-developed calcite-fluorine matrix crackle breccia that peaked at 13.3% F (RK00041) and also has anomalous lead (2580ppm Pb, RK00038) and zinc (340ppm Zn, RK00039), **Figure 5**. The breccia zone is up to 5m wide in places and can be traced along strike for over 300m, however, the fluorine-rich breccia is only located in the eastern 100m of outcrop with the remainder of the structure dominated by calcite-only crackle breccia (**Figure 6**).



Figure 4. *Patmungala Copper prospect rock chip sample RK00004 (727712mE, 7541360mN, 10.1% Cu, 629ppm TREE, 5ppm Ag, 244ppm Pb, 208ppm Zn) showing gossanous iron oxide and malachite after copper sulphides within a 10m x 1m prospectors pit.*



Figure 5. *Vaughan Springs calcite-fluorite breccia looking west (735593mE, 7540680mN, RK00041). The breccia is up to 5m wide and progressively decreases in development intensity towards the west where it eventually thins out to a <50cm wide calcite crackle breccia.*



***Figure 6**. Vaughan Springs rock chip sample RK00041 (735593mE, 7540680mN, 13.1% F, 333ppm Pb, 104ppm Cu, 0.8ppm Ag, 53ppm TREE) showing massive calcite-fluorite breccia (top) and coarse-grained fluorite crystal pseudomorphs (bottom).*

Cautionary Statement

Soil sampling lines are currently too wide-spaced to confidently model REE distribution and additional traversing is required to better understand TREE distribution in soils. Drill-testing is required to confirm cover thickness surrounding the granite outcrops and will be critical to identify the potential volume of REE anomalous material.

Forward looking statement

This announcement may include forward-looking statements, which are subject to risks and uncertainties. Actual results could differ significantly due to factors beyond LMS's control, including market conditions and industry-specific risks. These forward-looking statements are based on the Company's expectations and beliefs concerning future events. No warranty is given regarding the completeness of the information provided. Please avoid placing undue

reliance on forward-looking statements, as they reflect views only as of the announcement date.

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

Appendix 1 (Mt Doreen soil samples)

Sample_#	Easting	Northing	Prospect	Ag	Al	As	Ba	Be	Bi	Ca
RK00001	726365	7540308	Reconnaissar	0.1	31000	4	360	1	0.2	400
RK00002	726780	7540612	Reconnaissar	0.1	3400	2	40	<0.5	0.2	400
RK00003	727504	7541380	Patmungala C	8.2	4700	11	78	<0.5	2	800
RK00004	727712	7541360	Patmungala C	5	14200	319	128	3	7.4	1200
RK00005	727794	7541355	Patmungala C	3.8	14000	1070	362	11	24.6	1100
RK00006	727763	7541286	Patmungala C	4.2	3000	57	82	<0.5	43	300
RK00007	733856	7550214	Silver King Eas	0.1	69500	6	580	1.5	0.5	40900
RK00008	713178	7560932	Clark Copper	0.4	54200	24	148	1	13.8	1300
RK00009	713178	7560755	Clark Copper	0.4	113000	8	768	2.5	0.5	3200
RK00010	729306	7554591	Silver King Eas	0.1	67400	2	778	1	0.7	10600
RK00011	729379	7554626	Silver King Eas	0.1	64100	2	524	2	1.7	6900
RK00012	729410	7554626	Silver King Eas	0.1	67100	<1	162	1	<0.1	1400
RK00013	729441	7554638	Silver King Eas	0.1	106000	<1	1070	9	0.7	3100
RK00014	729470	7554646	Silver King Eas	0.1	108000	<1	1010	4.5	0.6	400
RK00015	729665	7554551	Silver King Eas	0.1	66700	<1	494	4.5	1.4	5400
RK00016	729623	7554452	Silver King Eas	0.1	68100	<1	418	3	0.7	4400
RK00017	729755	7554464	Silver King Eas	0.1	70200	<1	412	1.5	0.2	6200
RK00018	733846	7552061	Silver King Eas	0.1	58200	2	98	1	0.6	2800
RK00019	733850	7552061	Silver King Eas	0.1	72700	<1	274	2.5	1.3	3900
RK00020	734051	7552049	Silver King Eas	0.1	67900	<1	264	2.5	1.7	4100
RK00021	734246	7552043	Silver King Eas	0.1	71200	<1	226	2.5	1.4	4700
RK00022	734487	7551956	Silver King Eas	0.1	51500	2	244	2	0.5	23700
RK00023	733553	7551337	Silver King Eas	0.1	64300	2	378	1	0.2	2200
RK00024	733506	7551324	Silver King Eas	0.1	5100	<1	40	<0.5	0.2	100
RK00025	733418	7551354	Silver King Eas	0.1	66900	<1	272	1	1	3300
RK00026	718351	7557733		0.1	23900	<1	154	<0.5	<0.1	5000
RK00027	715507	7556134	Pyramid Hill	0.1	7900	<1	48	<0.5	<0.1	400
RK00028	730273	7552950	Silver King Eas	0.1	76900	2	380	1	1.3	3100
RK00029	730249	7552896	Silver King Eas	0.1	77400	2	304	2	1.6	4000
RK00030	730108	7552856	Silver King Eas	0.1	70500	<1	114	0.5	0.6	3900
RK00031	730068	7552821	Silver King Eas	0.1	60700	<1	252	1.5	0.6	2700
RK00032	729957	7552817	Silver King Eas	0.1	80900	<1	284	1.5	1	4100
RK00033	729957	7552817	Silver King Eas	0.1	77500	<1	208	2	1.2	6100
RK00034	729957	7552817	Silver King Eas	0.1	67400	<1	156	1	4.5	2800
RK00035	729932	7552742	Silver King Eas	0.1	62700	2	228	1	1.1	2800
RK00036	729942	7552679	Silver King Eas	0.1	53000	<1	198	1	1.7	2000
RK00037	729574	7552652	Silver King Eas	0.1	56900	<1	188	1	0.9	2000
RK00038	735448	7540767	Vaughan Sprir	0.6	11900	9	728	0.5	0.6	11100
RK00039	735430	7540782	Vaughan Sprir	0.1	12000	6	190	<0.5	0.4	24100
RK00040	735560	7540695	Vaughan Sprir	0.6	15000	4	366	0.5	0.4	63200
RK00041	735593	7540680	Vaughan Sprir	0.8	11200	4	336	0.5	1.1	2E+05
RK00042	734467	7550791	Silver King Eas	0.1	73000	<1	252	1.5	1.5	4200
RK00043	734489	7550787	Silver King Eas	0.1	9700	<1	88	<0.5	0.6	1100

RK00044	734778	7550573	Silver King Eas	0.1	41300	<1	296	0.5	1.2	2000
RK00045	734881	7550568	Silver King Eas	0.1	87900	<1	378	1.5	0.3	3500
RK00046	735151	7550559	Silver King Eas	0.1	43800	<1	182	1	0.6	1000
RK00047	735498	7550541	Silver King Eas	0.1	90500	<1	318	1.5	0.6	3700
RK00048	735704	7550543	Silver King Eas	0.1	77000	<1	416	1	0.4	2200
RK00049	735745	7550569	Silver King Eas	0.1	18500	2	132	1.5	<0.1	600
RK00051	735738	7550694	Silver King Eas	0.1	64900	5	314	1	1	2200

Cd	Co	Cr	Cs	Cu	Fe	Ga	Hf	In	K	Li	Mg
<0.5	6	40	1.2	54	16500	6.6	4.8	<0.05	9300	<10	1600
<0.5	2	20	<0.1	22	24000	1	0.4	<0.05	300	<10	<100
<0.5	2	20	0.4	5150	15700	1	<0.2	0.6	1700	80	200
<0.5	7	<10	1.5	101000	47000	2.6	0.8	12.7	6200	30	700
<0.5	9	20	4.9	64300	250000	4.2	1.2	9.4	7700	20	800
<0.5	26	40	0.3	332	100000	1	<0.2	0.2	400	<10	100
<0.5	8	40	3.4	416	38900	20.2	2	0.1	39200	<10	2400
<0.5	4	50	0.9	976	52600	13.8	2.6	0.35	800	<10	6200
<0.5	16	90	8.2	106	44300	46	8.4	0.15	44200	30	18900
<0.5	4	20	8.5	38	20300	16.8	3.6	0.05	35900	20	2100
<0.5	3	<10	10	22	11300	14.4	2.8	<0.05	29800	<10	1200
<0.5	3	<10	2.6	4	12600	18.2	4	<0.05	26400	20	18200
<0.5	13	90	29.5	8	54800	39.6	4.6	0.15	56300	100	9500
<0.5	13	70	26.8	22	44500	32.2	2.8	0.1	58000	50	8700
<0.5	6	20	20.2	12	22900	18	2.4	<0.05	35500	30	3100
<0.5	3	<10	11.2	22	18300	19	3.4	0.05	41700	40	2200
<0.5	3	<10	7.1	34	15700	19.4	3.6	0.05	41200	<10	2000
<0.5	3	<10	4.4	8	23300	20.2	0.4	0.1	29100	<10	3300
<0.5	3	<10	19.8	16	15900	21	2.6	0.1	45100	10	1800
<0.5	3	<10	9.4	16	13200	18.4	2.6	0.05	47500	<10	1800
<0.5	3	<10	12.8	8	16100	20.8	2.8	0.1	44100	20	2100
<0.5	5	20	9.4	4	18400	13.4	1.2	<0.05	26600	10	2600
<0.5	3	<10	5.8	12	14100	18.6	3	0.1	44500	<10	2800
<0.5	<1	20	1	12	17700	2	<0.2	<0.05	2200	<10	200
<0.5	3	<10	11.4	16	14600	19	2.4	0.15	42900	<10	1600
<0.5	2	20	1.1	44	11500	5.4	0.6	<0.05	9600	<10	4500
<0.5	<1	30	0.3	38	14700	2.4	0.2	<0.05	2100	<10	500
<0.5	3	<10	10.2	10	15500	19.8	2.8	0.05	58900	30	2000
<0.5	4	<10	16	10	17200	21.6	3.4	0.1	53000	40	2700
<0.5	<1	<10	10.5	16	8100	20.6	2.2	<0.05	41400	20	800
<0.5	2	20	8.3	2	13100	15.4	1.8	0.05	44200	20	1500
<0.5	2	<10	14.1	16	11700	22.4	2.2	0.1	56400	30	1700
<0.5	3	<10	15.7	6	15900	21.4	3.2	0.1	46800	40	2800
<0.5	3	<10	6.8	16	16100	17.6	1.2	0.05	36800	10	2700
<0.5	3	<10	8.7	6	21900	17.4	2.2	0.1	41900	20	2200
<0.5	2	<10	7.7	2	14500	13.4	1.8	0.05	37800	10	1600
<0.5	3	<10	8.7	2	17800	15.2	2.4	0.05	36800	20	1800
<0.5	3	30	1.3	46	25200	4	1	0.15	6200	60	1800
1	2	30	0.7	12	22000	3.4	1.6	0.1	7300	60	2300
<0.5	<1	20	1.4	34	10800	4.4	0.8	0.15	12200	60	900
<0.5	<1	30	1.2	104	9000	5.6	0.6	1.7	9500	40	600
<0.5	3	<10	20.6	2	16900	21	3	0.1	44200	<10	1800
<0.5	<1	<10	3.9	1	11300	4	0.4	<0.05	6800	<10	800

<0.5	4	<10	2.2	4	17100	11	1.2	<0.05	22200	<10	1900
<0.5	4	<10	12.6	2	15700	23.2	3.6	0.1	54900	<10	2700
<0.5	2	<10	9.1	2	13200	11.8	1.4	0.05	27900	<10	1300
<0.5	3	<10	15	1	14600	23.6	3.6	0.1	56400	<10	2200
<0.5	3	<10	13.8	2	16400	19.6	2.6	0.1	50300	<10	1700
<0.5	2	<10	5.4	1	17000	7.4	0.8	<0.05	12200	<10	1500
<0.5	3	<10	16	38	18400	17.8	2.8	0.2	42000	<10	2000

Mn	Mo	Na	Nb	Ni	P	Pb	Rb	Re
246	1.5	1600	4.5	16	150	9	41.2	<0.1
98	0.5	200	1	6	500	7	2.4	<0.1
92	1.5	500	1	6	350	29	13	<0.1
104	4	2200	2	14	2650	244	39.6	<0.1
254	9	200	2.5	46	2650	143	62.2	<0.1
136	4	200	1	94	200	156	2.8	<0.1
372	1	13500	10.5	14	700	18	213	<0.1
158	2	3800	1.5	6	400	59	7	<0.1
570	4	5100	11	42	1050	34	241	<0.1
336	1.5	17800	9	6	650	31	210	<0.1
204	1	23500	6.5	4	750	22	180	<0.1
156	1	2000	11.5	6	1250	7	142	<0.1
786	<0.5	6200	27	32	900	23	416	<0.1
510	<0.5	2400	16.5	32	950	12	387	<0.1
412	1	15700	10.5	12	700	25	304	<0.1
254	1	15300	17.5	6	1100	27	347	<0.1
286	<0.5	17900	14	4	850	29	307	<0.1
210	1.5	8500	4.5	8	1550	12	215	<0.1
198	1	18100	18.5	8	1700	27	426	<0.1
144	<0.5	15600	14.5	8	1400	29	363	<0.1
168	1	15500	16	10	2050	26	362	<0.1
226	1	8600	7.5	12	350	18	202	<0.1
158	1.5	14700	12.5	6	1100	19	318	<0.1
128	2	200	2	6	250	2	23.8	<0.1
168	1	18000	14	6	1200	20	385	<0.1
134	<0.5	500	2	6	2700	3	58.4	<0.1
96	1.5	200	1	6	300	1	22.2	<0.1
228	3.5	13100	11.5	10	1350	53	471	<0.1
224	1.5	13000	15	12	1650	57	478	<0.1
90	<0.5	17700	7.5	4	1000	29	354	<0.1
124	1	10300	7.5	10	800	26	349	<0.1
146	<0.5	18800	14	6	1700	35	517	<0.1
164	<0.5	17600	15.5	14	2150	31	483	<0.1
134	<0.5	15100	5.5	8	1550	18	321	<0.1
196	<0.5	10200	10.5	10	750	22	361	<0.1
138	1	9100	8	8	700	30	319	<0.1
170	<0.5	9200	10	10	700	25	305	<0.1
146	1.5	300	2	10	1000	2580	53	<0.1
148	<0.5	400	2	6	350	950	47.6	<0.1
88	1.5	400	2	4	300	549	83	<0.1
90	<0.5	300	1.5	<2	200	333	67.2	<0.1
174	1	15500	12.5	4	1400	28	413	<0.1
136	<0.5	300	1.5	<2	250	7	72.6	<0.1

280	1	11500	6	6	750	9	174	<0.1
186	<0.5	22500	15.5	4	1800	24	485	<0.1
138	1	9000	7	4	800	14	264	<0.1
174	<0.5	24200	15.5	4	1400	27	481	<0.1
140	1	21100	11.5	4	1250	24	433	<0.1
166	<0.5	800	4	4	450	13	140	<0.1
396	1.5	13200	12	6	1900	27	412	<0.1

S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
800	0.9	4	<5	1	12.5	0.3	<0.2	13.3
150	1.9	<1	<5	0.1	7	<0.1	<0.2	1.3
950	27.4	<1	<5	1.1	10.5	<0.1	<0.2	1.2
750	3.8	<1	<5	33.2	38.5	0.2	<0.2	4
600	10.6	2	<5	16.8	24	0.2	<0.2	4.4
350	9.8	<1	<5	0.5	8.5	<0.1	0.6	1.1
100	0.5	11	<5	4.8	258	1	<0.2	25.9
200	0.5	4	<5	4.3	42.5	0.1	0.4	20.6
1000	1.9	16	<5	11.6	36.5	1	<0.2	37.9
350	0.5	4	<5	5.7	112	0.8	<0.2	22.3
150	0.4	3	<5	6.6	82	1.3	<0.2	16.7
100	0.3	3	<5	6.9	20.5	1	<0.2	30.8
100	0.2	12	<5	38.5	55.5	2.2	<0.2	40
100	0.2	14	<5	10.3	31	1.5	<0.2	24.1
100	0.5	5	<5	6.6	72	1.7	<0.2	15.9
150	0.2	3	<5	7.6	55.5	1.7	<0.2	32.8
100	0.2	3	<5	7.9	70.5	1.6	<0.2	28.2
100	0.4	3	<5	9.7	26	1.3	<0.2	1.7
100	0.2	2	<5	21.1	59	3.4	<0.2	9.3
100	0.2	2	<5	8.9	55	1.8	<0.2	10.2
100	0.2	3	<5	12.5	49	1.9	<0.2	11.2
200	0.2	3	<5	5	73.5	1.8	<0.2	7.6
100	0.2	3	<5	12	52.5	1.7	<0.2	15.2
100	0.3	<1	<5	1.8	3.5	0.1	<0.2	0.9
100	0.2	4	<5	17.3	43	2.3	<0.2	10.8
150	<0.1	2	<5	2.8	13.5	0.4	<0.2	5.9
200	<0.1	<1	<5	0.6	13.5	0.1	<0.2	1.2
400	0.2	2	<5	9.2	77.5	1.5	<0.2	11.1
400	0.2	2	<5	15.8	60	2.4	<0.2	12.5
100	<0.1	1	<5	8.2	60	0.9	<0.2	6.7
100	<0.1	2	<5	7.2	49.5	1	<0.2	7.2
100	<0.1	2	<5	15.4	75	2.4	<0.2	7.8
100	<0.1	2	<5	12.8	63	2.1	<0.2	12.2
100	0.2	<1	<5	8.3	37.5	1.4	<0.2	3.5
100	0.2	3	<5	7.7	41	1.2	<0.2	9.2
100	0.2	<1	<5	7.4	42.5	2.8	<0.2	5.9
100	0.2	2	<5	8.3	37	1.5	<0.2	9.8
1050	1	2	<5	1	13.5	0.2	<0.2	6.7
950	0.9	<1	<5	1	13	0.2	<0.2	5.3
150	1	2	<5	1.1	27.5	0.2	<0.2	4.9
150	1.2	<1	<5	1.2	24	0.2	<0.2	3.7
<50	<0.1	3	<5	22.6	47.5	2.9	<0.2	14.7
<50	<0.1	<1	<5	3.6	7	0.2	<0.2	1.9

150	<0.1	2	<5	8.7	34	1.2	<0.2	7.3
100	<0.1	4	<5	24.3	58	3.8	<0.2	17.1
100	<0.1	2	<5	12.9	26	1.6	<0.2	6.9
<50	<0.1	4	<5	25.5	58.5	3.4	<0.2	18.3
100	<0.1	2	<5	17.7	50.5	2.8	<0.2	12.8
150	<0.1	1	<5	9.9	13.5	0.7	<0.2	5.2
100	0.1	3	<5	22.7	37.5	3.2	<0.2	14.5

Ti	Tl	U	V	W	Y	Zn	Zr	La
1600	0.2	2	25	2	10.3	28	224	20.9
150	<0.1	1	<5	<0.5	3.4	22	14	6.3
100	<0.1	0.9	<5	<0.5	12.4	16	6	42.5
200	0.5	10.6	10	<0.5	24.6	208	24	136
500	0.3	14.8	35	6	28.8	924	56	31
100	<0.1	1.1	10	<0.5	2.4	80	10	2.4
3200	0.9	2.5	105	2	19.1	24	42	21.3
1200	<0.1	2.2	35	2.5	8.9	268	108	37.4
3050	1	6.4	115	4.5	17.5	322	172	161
1250	1	3	15	1.5	11.6	102	122	40.8
700	0.9	3	10	2	9.9	32	96	33.7
1100	0.4	4.9	15	2	9.1	22	116	41.8
3650	2.3	8.5	85	4.5	17.1	128	110	47.5
3150	1.8	3.8	75	3	8.8	78	76	51
1400	1.5	3.3	20	1.5	9.1	50	80	30.3
1550	1.7	6	15	2	10.5	54	116	43
1300	1.4	27.9	10	1	10.5	54	112	33.5
650	1	1.3	<5	3	5.1	86	6	2.8
950	1.8	8.2	5	10	10.9	42	70	15.6
900	1.6	7.6	5	3.5	12.8	28	72	20.7
1000	1.7	6.5	10	4.5	11.3	48	84	19.2
1000	1	3.4	30	2.5	11.3	26	44	22.9
950	1.2	6.6	10	4.5	12.8	14	78	18.9
100	<0.1	5.1	5	1.5	1.1	10	6	1.6
750	1.6	8.4	5	8	13.6	18	64	17.6
550	0.2	0.8	15	2	14.2	12	16	8.3
200	0.1	0.8	10	0.5	3.5	8	<2	2.4
1150	2.6	20.4	10	3	10.4	142	78	16
1300	2.6	21.2	10	7.5	12.3	236	100	16.7
650	1.9	7.2	<5	3	8.8	30	50	11.6
750	1.9	5.1	10	3.5	6.8	36	52	11.8
800	2.7	12.8	<5	8.5	9.4	42	56	13.8
1150	2.6	7.8	<5	2.5	11.6	66	90	20
750	1.6	4.4	<5	4	6.9	66	30	7.5
1150	2	5.4	15	4.5	7.3	44	64	14.4
700	1.6	6.2	<5	3.5	6.2	48	46	9.2
1100	1.6	9.5	10	7.5	7.7	36	72	12.8
1000	0.3	1.8	20	1.5	14.2	220	42	9.9
700	0.3	1.1	10	1	12.1	340	50	5.3
900	0.4	1.2	20	1.5	22.1	78	30	14.9
600	0.4	0.9	15	1.5	44.8	106	18	10
1050	2.1	9.7	10	10	13.6	32	86	22.5
150	0.4	4.2	<5	1.5	5.2	6	4	4.9

700	0.8	6.7	10	2	9.3	14	40	11.4
1300	2.1	12.3	10	10	18.4	16	104	26.4
600	1.3	6.2	<5	5.5	6.4	14	42	11.3
1150	2.2	11.4	10	9	18.1	18	104	24.7
950	2.2	13.9	10	8	12.1	18	74	17.4
350	0.7	27.7	<5	3.5	20.8	14	26	34.7
1000	2.3	10.5	10	11.5	13.8	28	86	20.8

Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
43.5	4.8	17.7	3.3	0.5	2.6	0.38	2.1	0.38
15	1.65	6.5	1.25	0.2	0.8	0.14	0.75	0.14
81.4	9.8	36.6	7.95	1.7	6.4	0.82	3.35	0.44
263	33.7	131	26.2	5.35	20.2	2.24	7.95	0.9
59.3	7.75	29.3	6.45	1.45	6.2	0.9	4.8	0.84
4.7	0.6	2.25	0.5	0.15	0.6	0.08	0.55	0.1
74.4	5.7	20.9	4.2	0.85	3.4	0.58	3.7	0.74
70.9	9.15	32.9	5.75	0.5	3.8	0.52	2.35	0.44
303	34.4	126	22.8	4.1	14.8	1.68	6.5	0.82
72.9	8.75	30.3	5.8	0.9	4.6	0.58	2.75	0.44
56.4	7.1	24.9	4.55	0.65	3.4	0.46	2.2	0.36
86.9	10.2	36.5	7.2	0.65	4.8	0.56	2.4	0.34
122	11.8	42	8.05	1.2	6	0.86	4.4	0.72
100	12.1	43.9	8.05	1.05	5.6	0.68	2.9	0.38
59.8	6.7	25	4.85	0.7	3.6	0.48	2.25	0.34
98.4	11.5	42.5	8.55	0.6	5.2	0.58	2.45	0.38
77.5	9.05	32.6	6.7	0.6	4.4	0.54	2.5	0.38
6.4	0.85	3.15	1	0.15	1	0.2	1.1	0.16
32.9	3.95	15.1	3.9	0.5	3.6	0.6	2.75	0.38
40.9	5	18.8	4.55	0.55	4.2	0.68	3.1	0.44
39.9	4.8	18.1	4.55	0.5	4.2	0.66	3.2	0.46
38	5	19.7	4.05	0.6	3.2	0.5	2.45	0.44
38	4.55	17.2	4.05	0.5	3.8	0.6	3	0.46
3.3	0.4	1.5	0.35	0.025	0.4	0.06	0.25	0.06
35.9	4.4	17.1	4.3	0.5	4	0.66	3.25	0.46
17.1	2.05	7.85	2.9	0.7	5	0.68	3.8	0.6
4.8	0.6	2.25	0.55	0.1	0.6	0.12	0.7	0.14
36.1	4.15	14.1	3.5	0.6	4	0.5	2.6	0.4
37.8	4.35	14.9	3.95	0.5	4.6	0.6	3.05	0.44
26	3.05	10.4	2.75	0.35	3	0.38	2	0.28
24.9	3	10.2	2.45	0.35	2.8	0.34	1.7	0.24
29.6	3.5	11.9	3.05	0.5	3.4	0.46	2.4	0.36
44.8	5.25	17.8	4.65	0.5	5	0.66	3.1	0.42
15.3	2	7	1.9	0.3	2.4	0.34	1.7	0.24
31.1	3.65	12.4	2.85	0.35	3	0.38	1.9	0.26
20.2	2.3	7.9	1.95	0.3	2.4	0.3	1.6	0.22
28.5	3.25	10.9	2.7	0.3	3	0.38	1.95	0.28
19.3	2.5	10.1	3.2	1.2	4	0.48	2.6	0.44
11.3	1.4	5.75	1.7	0.6	2.4	0.26	1.45	0.24
29.5	3.55	12.5	2.5	0.45	2.8	0.34	2.1	0.4
19.6	2.4	9.05	2.1	0.4	3.2	0.46	3.05	0.58
48.1	5.7	19.3	4.75	0.5	4.8	0.62	3.15	0.48
10.7	1.25	4.3	0.95	0.1	1.2	0.18	1.1	0.18

28.2	3.05	10.4	2.45	0.3	2.6	0.36	2.1	0.36
56.4	6.75	23.2	5.7	0.6	6	0.78	4.1	0.64
24.7	2.9	9.9	2.4	0.3	2.4	0.3	1.6	0.24
53.3	6.5	22.4	5.75	0.65	6.2	0.8	4.3	0.62
37	4.5	15.4	3.75	0.5	4	0.52	2.9	0.44
79.2	9.85	31.8	7.2	0.55	6.4	0.82	4.35	0.68
46	5.4	18.4	4.45	0.5	4.6	0.58	3.1	0.52

Er	Tm	Yb	Lu	TREE	Au
1.3	0.15	1.2	0.2	99.01	<0.01
0.4	0.025	0.3	0.04	33.495	<0.01
1.05	0.1	0.85	0.1	193.06	<0.01
1.7	0.15	0.85	0.12	629.36	<0.01
2.3	0.3	1.8	0.28	152.67	<0.01
0.25	0.025	0.25	0.04	12.495	<0.01
2.4	0.3	2.25	0.36	141.08	<0.01
1	0.1	0.85	0.12	165.78	<0.01
2.35	0.2	1.3	0.2	679.15	<0.01
1.25	0.15	0.95	0.14	170.31	<0.01
1	0.1	0.95	0.14	135.91	<0.01
0.9	0.1	0.65	0.12	193.12	<0.01
2	0.3	1.65	0.26	248.74	<0.01
0.9	0.1	0.65	0.1	227.41	<0.01
0.9	0.1	0.75	0.12	135.89	<0.01
1	0.1	0.8	0.12	215.18	<0.01
1.05	0.1	0.9	0.12	169.94	<0.01
0.45	0.1	0.45	0.06	17.87	<0.01
0.95	0.1	0.7	0.1	81.13	<0.01
1	0.1	0.75	0.12	100.89	<0.01
0.95	0.1	0.75	0.1	97.47	<0.01
1.05	0.1	0.85	0.12	98.96	<0.01
1.25	0.15	1.05	0.16	93.67	<0.01
0.15	0.025	0.1	0.01	8.23	<0.01
1.2	0.15	0.9	0.12	90.54	<0.01
1.55	0.2	1.15	0.16	52.04	
0.35	0.025	0.35	0.04	13.025	
0.95	0.1	0.8	0.12	83.92	
1.05	0.15	0.8	0.12	89.01	
0.75	0.1	0.65	0.1	61.41	
0.65	0.1	0.55	0.08	59.16	
0.8	0.1	0.65	0.1	70.62	
0.9	0.1	0.65	0.08	103.91	
0.6	0.05	0.5	0.06	39.89	
0.7	0.1	0.55	0.08	71.72	
0.6	0.05	0.55	0.08	47.65	
0.75	0.1	0.65	0.08	65.64	
1.15	0.15	0.95	0.14	56.11	
0.65	0.1	0.55	0.08	31.78	
1.05	0.15	0.85	0.12	71.21	
1.55	0.15	1.05	0.14	53.73	
1.1	0.15	0.9	0.14	112.19	
0.5	0.05	0.4	0.06	25.87	

0.9	0.1	0.75	0.12	63.09
1.55	0.2	1.25	0.18	133.75
0.65	0.1	0.5	0.08	57.37
1.55	0.2	1.25	0.18	128.4
1.1	0.15	0.9	0.14	88.7
1.75	0.2	1.3	0.18	178.98
1.15	0.15	0.95	0.14	106.74

Sample_#	Easting	Northing	Cs	Cu	Ga	Hf	Nb	P	Rb	Sc	Sr	Ta	Th
SS00001	742449	7561415	3.3	170	12.4	5.8	12.5	300	126	7	51	1.7	37.9
SS00002	742451	7561202	3.3	68	12.4	6	12.5	350	124	8	50.5	1.2	40.7
SS00003	742451	7561004	3	94	11.4	5.6	10.5	250	116	7	43	0.6	36.2
SS00004	742447	7560799	3	26	11	4.4	10.5	300	124	6	50	1	35.7
SS00005	742454	7560603	2.7	38	10.2	5	10	300	121	6	46	1	39
SS00006	742447	7560399	3.3	40	12.4	5.4	11	300	127	7	46.5	1.1	35.9
SS00007	742451	7560203	3.5	34	12.4	5.2	12	400	128	8	53	1.2	33
SS00008	742452	7560004	3	80	10.6	5	10.5	300	126	7	51.5	1.2	37.2
SS00009	742448	7559805	3.8	30	14.4	6.4	13.5	350	141	8	53	1.3	50.7
SS00010	742453	7559603	4.3	30	15.6	5.6	12.5	400	137	9	59.5	1.2	33
SS00011	742446	7561598	3.6	26	13.6	3.8	11.5	300	162	7	63	1	32.4
SS00012	742452	7561801	3.9	30	14.8	4.2	12.5	400	128	10	57.5	1.3	27.6
SS00013	742449	7561999	4.2	36	16.2	3.6	11	450	126	11	57	0.9	24
SS00014	742455	7562200	3.6	32	14	3.6	10	350	118	9	52	0.9	24
SS00015	742452	7562405	4	52	16	5	11.5	400	124	10	55	1	27.8
SS00016	742446	7562602	2.9	46	11.4	4.4	9.5	300	107	7	43.5	0.9	27.5
SS00017	742449	7562798	2.5	34	10	4.2	10	300	119	6	42.5	0.9	36.3
SS00018	742450	7562959	3.7	20	12.8	6.6	13.5	650	171	7	47.5	1.2	77.2
SS00019	742471	7563139	3.2	44	11.2	5.4	11	500	166	5	41.5	0.9	65.6
SS00020	742387	7563300	3.3	20	11.8	5.2	12.5	500	176	6	44.5	0.9	73.3
SS00021	741288	7562928	4.9	122	19.8	6.2	13.5	550	136	12	59.5	1.1	29.8
SS00022	741290	7562880	5.4	68	20.2	4.8	12	500	142	12	63	1.2	24.6
SS00023	741286	7562825	4.5	68	17	4	10	500	120	11	52.5	0.9	21.6
SS00024	743948	7561502	2.7	32	11.2	6.8	12.5	350	143	7	44.5	1.1	55.2
SS00025	743948	7561303	2.6	26	9	5	10	300	124	5	44.5	0.8	46
SS00026	743953	7561103	2.7	30	10.6	4.6	10	350	120	6	50.5	0.8	39.9
SS00027	743950	7560909	2.7	30	11.2	5.8	10	300	123	7	48.5	0.9	44
SS00028	743951	7560704	3	26	12.8	5	10.5	300	132	7	51	0.9	41.2
SS00029	743950	7560505	3.3	22	13.2	4.8	11	350	127	7	51	0.8	38.5
SS00030	743952	7560301	2.9	30	11.2	4.4	9.5	350	116	7	49	0.8	33.7
SS00031	743955	7560102	3.7	28	14	5.6	12	350	138	8	59.5	0.9	40.5
SS00032	743947	7559898	2.9	22	11	4.2	9.5	350	117	7	48.5	0.8	31.3
SS00033	743949	7559701	3.2	24	12.8	5.2	10.5	350	124	8	50	0.8	42.5
SS00034	743950	7559503	3	20	11.6	5.6	10	300	118	6	43.5	0.8	38.6
SS00035	743951	7559298	3.2	24	11.8	3	8	400	118	7	45.5	0.9	24.6
SS00036	743949	7559100	3.7	22	13.8	4	10.5	400	126	8	50.5	0.7	33.4
SS00037	743940	7558877	2.9	22	10.6	4.6	10	400	122	6	49	0.7	37.8
SS00038	743943	7558705	4.1	24	14.2	4.4	12	450	149	9	61.5	0.9	41.9
SS00039	743945	7558494	4.7	30	16	4.2	12.5	400	172	9	69	0.8	36.7
SS00040	743951	7558304	3.8	100	13.8	5.4	13	400	145	8	62	1	41.8
SS00041	743948	7558102	3	52	11.6	4.2	9.5	350	116	7	48.5	0.6	34.3
SS00042	743947	7557951	3.5	30	13.6	4	9	350	117	8	49	0.6	29.1
SS00043	743668	7561049	2.8	66	10.6	4.2	9.5	350	122	6	51	0.7	39.1

SS00044	743668	7561101	2.7	68	11	4	9	350	109	7	43.5	1	34.7
SS00045	743678	7561201	3.6	54	12.2	4.6	12	400	143	7	58.5	1.2	38.4
SS00046	733852	7552100	6	20	12	4	11.5	300	152	5	46	1.2	21.6
SS00047	733850	7551905	3.3	18	9.8	3.6	8.5	350	114	5	48.5	1	21.2
SS00048	733849	7551699	3.8	18	11.4	3	9	350	115	7	51.5	2	18.7
SS00049	733851	7551498	2.6	10	6.4	2	5.5	200	72.8	3	25.5	0.6	11.7
SS00051	733849	7551305	4.2	52	12	3.6	9.5	350	136	6	60.5	2.6	20.6
SS00052	733848	7551101	6.9	18	15	4.8	13.5	300	197	5	53.5	1.7	25.1
SS00053	733848	7550900	7.5	14	16.2	5.6	15	400	237	5	46.5	2.1	29
SS00054	733849	7550703	3.8	32	11	3.6	9.5	300	152	5	49	1.5	20.3
SS00055	733851	7550500	6.6	16	11.6	3.6	10.5	300	152	7	64	2.8	22.8
SS00056	733849	7550307	22.3	34	16.2	5.6	24	550	290	8	80	16.4	36.5
SS00057	733852	7550104	8.2	26	16.8	3.8	13	350	164	11	71	1.7	26.6
SS00058	733859	7549894	5.3	190	15.8	4.4	12.5	350	146	10	67	2.3	26.9
SS00059	733849	7549826	2.6	106	15.4	4.4	7	350	72.8	26	52.5	0.8	19.8
SS00060	733860	7549699	6.7	14	12.6	3.6	9.5	300	149	6	49.5	1.9	20.5
SS00061	733851	7549502	4.8	22	15.6	4	10.5	350	143	11	66	1.3	20.5
SS00062	733246	7549301	3.9	16	12.4	3.6	9.5	300	129	7	58	1	20.5
SS00063	733251	7549502	4.1	18	13.6	3.8	10	350	123	8	62	1	22.7
SS00064	733248	7549701	4.8	26	15.6	4.4	10.5	350	142	10	62	1	23.9
SS00065	733255	7549901	5.8	18	17	5.4	11.5	300	165	11	63	1.2	35.4
SS00066	733253	7550105	6.5	18	17.4	5.8	11.5	300	157	11	89	1.4	31.1
SS00067	733246	7550301	9.1	20	13	3.8	10	300	144	8	67.5	1.5	23
SS00068	732245	7549951	3.6	20	12.2	3.8	9	300	117	8	50	0.8	23
SS00069	732249	7549849	3.1	12	12	4.2	9.5	300	119	8	51.5	0.9	28.1
SS00070	732259	7549753	3.4	10	15	5.2	13	450	171	5	63.5	1.3	88.3
SS00071	732274	7549679	5.7	26	15.2	5.8	14	600	226	5	63	1.3	96.7
SS00072	732288	7549600	3	30	10.8	4	9	250	131	5	49.5	0.9	31
SS00073	713903	7560902	5.3	26	12	6	89	400	207	3	25	86.2	40.4
SS00074	713900	7560852	6	8	11.6	5.4	50	500	220	3	23.5	51.1	37.5
SS00076	713906	7560809	14	20	15.6	3.8	18	600	306	3	32	6.5	15.6
SS00077	713903	7560752	7.5	16	12.4	4.2	20	650	232	3	31	6.6	30
SS00078	713903	7560704	4.4	10	10.2	3	9.5	350	170	3	35.5	2.5	15.4
SS00079	713902	7560653	4	22	10.2	3.4	11	400	166	3	36.5	3.1	22.1
SS00080	739899	7562603	4.9	30	15.6	4	11.5	400	142	10	56.5	0.9	22.9
SS00081	739900	7562803	3.6	32	13	3.8	10	300	116	8	46.5	0.8	24.6
SS00082	739905	7563002	4.3	24	15.6	4.8	12	350	132	9	53.5	0.9	30.8
SS00083	739895	7563201	4.4	36	16.2	3.8	11.5	300	132	9	53.5	0.8	27.9
SS00084	739900	7563401	2.4	8	8.6	2.2	7	200	99	5	38.5	0.3	19.6
SS00085	740495	7563400	3.6	32	12.2	3.4	9.5	350	133	7	57	0.6	27.5
SS00086	740495	7563207	2.9	26	10.8	3.8	9	300	117	6	51	0.7	31
SS00087	740497	7562999	3	30	10.8	4.8	10	300	121	6	48	0.8	33.3
SS00088	740500	7562801	3.2	14	11.4	4.4	10.5	350	121	7	50	0.8	32.3
SS00089	740496	7562599	4.3	44	16.2	4.4	11	450	135	9	57	1.3	29

SS00090	740496	7562444	3.7	20	12	4.4	10.5	400	121	7	48	1.7	30.4
SS00091	740485	7562180	4.4	20	11.6	4	9	300	139	6	43.5	1	23.2
SS00092	740492	7562000	4	16	9.4	3.4	8	250	121	5	36	0.9	24.5
SS00093	741097	7560805	2.8	14	10	2.8	7.5	300	115	6	44	0.5	19.9
SS00094	741093	7561009	4.3	28	12.6	3.4	8.5	400	140	7	49	0.8	20.7
SS00095	741102	7561196	7	28	19.2	4.8	11.5	300	203	9	47	1.2	25
SS00096	741102	7561404	4.8	18	12	3.8	9	300	141	6	40.5	0.8	24.7
SS00097	741104	7561602	3	34	9.8	4	9	300	121	6	44	0.8	31.7
SS00098	741111	7561807	1.8	10	7	5.4	12.5	200	102	3	33.5	1.4	38.9
SS00099	741100	7561999	2.7	12	10.2	4.8	9.5	250	117	5	46	0.7	36
SS00101	741100	7562200	2.7	14	10.2	5	10.5	300	122	5	50	1	40.2
SS00102	741091	7562405	2.5	16	9.2	10.6	20.5	400	108	5	43.5	2.4	126
SS00103	741100	7562602	2.8	14	10.4	4.2	9	450	120	6	56.5	0.6	31.7
SS00104	741100	7562800	3.4	16	12.6	5.2	12	300	138	7	55	1	41.6
SS00105	741100	7563000	3.8	18	15.4	4.6	11	400	112	9	56	1	31.1
SS00106	741100	7563200	4.7	20	18.2	4.6	12	450	135	11	58	1	27.6
SS00107	741105	7563401	4.6	30	17.4	5	11	400	130	10	59.5	0.9	29.3
SS000109	718200	7555851	3.5	8	12	3.6	7	350	117	6	44	0.9	23.3
SS000110	718202	7555948	2.5	1	10.4	3.8	7	300	100	7	44	0.8	22.8
SS000111	718204	7556055	3.9	8	16.8	4.4	8.5	450	116	11	58	1	24.4
SS000112	718204	7556149	3.8	18	14.8	4	7.5	400	113	8	53	0.9	23.7
SS000113	718204	7556246	4.3	12	18.2	3.6	7.5	350	122	10	66.5	0.9	23.1
SS000114	718201	7556952	3.8	1	14.6	3.8	7	350	110	9	49	0.9	23.4
SS000115	718201	7557061	3.5	8	14.4	3.4	7	350	111	8	54	0.9	22.5
SS000116	718208	7557158	3.9	4	14.2	3.6	7	350	121	8	50	0.9	24.6
SS000117	718195	7557255	3.6	6	13	3.4	6.5	300	113	7	50.5	0.8	24.8
SS000118	718435	7557767	2.6	1	10.6	3.4	6	300	106	5	40	0.8	24.6
SS000119	717245	7555752	4.1	6	15.8	3.4	7.5	400	113	9	53.5	1	23.6
SS000120	717244	7555859	3.2	4	12.4	3.2	6.5	350	104	7	50.5	0.8	20.6
SS000121	717248	7555960	3.5	8	13.6	3.6	7	350	108	8	57.5	0.8	22.9
SS000122	732551	7553948	3.7	16	12.4	3.8	7.5	500	119	7	59	0.9	23.4
SS000123	732551	7554054	3.7	14	12.8	4	7.5	400	114	7	61.5	1	25.7
SS000124	732549	7554153	3.1	10	10.8	4	7	300	113	5	50	1	25.6
SS000126	732554	7554246	3.9	12	13.6	3.8	8	450	115	8	64	1	23.8
SS000127	724503	7555149	3.9	12	12.4	3.4	7.5	450	116	7	48.5	1	20
SS000128	724503	7554956	4.1	8	13.2	3.6	7.5	400	118	6	51	1	21.2
SS000129	724506	7554746	4	6	13.6	3.8	7	350	116	7	51	0.9	22.4
SS000130	724500	7554548	4.6	12	15.8	4	8	400	123	9	54.5	0.9	21.7
SS000131	724506	7554357	4.4	8	14.6	4	7.5	350	119	8	46.5	1	21.9
SS000132	724504	7554158	4.9	6	17.2	3.8	8	400	121	10	52	1.1	20.3
SS000133	724511	7553965	4.4	20	15.4	4.2	8.5	400	118	8	58.5	1.1	21.7
SS000134	724902	7554259	4.5	50	15	4.2	8	350	125	7	48.5	1.1	22.7
SS000135	724897	7554450	4.1	14	13.8	3.8	7.5	350	114	7	47.5	0.9	21.7
SS000136	724903	7554661	3.7	2	12.6	3.6	7	350	109	6	48	0.9	22.3

SS000137	724909	7554842	3.6	8	11.6	3.8	7.5	350	112	6	48	0.9	22.4
SS000138	724899	7555054	4.2	6	13.6	3.8	8	400	121	7	52	1.1	23.1
SS000139	724895	7555252	3.5	2	11.2	3.6	7	350	106	6	47	0.9	20.9

Tl	U	V	Y	Zr	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm
0.7	4.4	60	26.1	176	60.5	114	15	52.3	9.7	1	8	1.1	5.55	1.06	2.7	0.3
0.7	4.8	60	27.8	200	60.3	114	15.3	52.9	10.1	1.05	8.4	1.18	5.9	1.16	3	0.4
0.6	3.8	50	26	188	52	102	13.1	45	8.35	0.85	6.8	0.94	4.85	0.9	2.7	0.3
1.2	3.9	50	25.7	164	55.4	107	14	48.8	8.95	0.9	7.6	1.02	5.3	1	2.7	0.35
0.6	3.9	45	23.8	184	55.4	108	13.9	48.2	8.8	0.85	7.4	0.98	5	0.94	2.55	0.3
0.6	3.9	60	25.4	210	53.9	106	13.5	45.9	8.6	0.9	7.2	1.02	5	0.96	2.6	0.3
0.6	3.9	60	27.6	184	53.7	108	13.7	47.6	9.15	1.1	8	1.08	5.85	1.14	3	0.4
0.6	3.9	50	26.6	200	58.5	114	14.9	51.6	9.55	0.9	8	1.08	5.55	1.04	2.85	0.35
0.7	5.2	65	34.1	248	78.2	156	19.7	71.4	12.7	1.15	10.4	1.44	7.2	1.3	3.5	0.45
0.7	4.1	75	26.4	164	51.6	97	13	45	8.6	1.05	7.4	1.02	5.45	1.02	2.85	0.4
0.7	4.4	50	25.8	136	50.6	96	12.9	44.7	8.5	1.05	7.4	1	5.25	1.02	3.1	0.35
0.6	4.2	75	27.6	150	51	92.4	12.9	45.7	8.7	1.25	7.8	1.06	5.6	1.12	3.35	0.35
0.6	3.8	75	24	122	42	78.7	10.7	37.9	7.2	1.1	6.4	0.9	4.8	0.92	2.55	0.3
0.6	3.6	70	21.2	134	41.1	78.4	10.3	36.1	6.95	0.9	5.8	0.8	4.8	0.82	2.3	0.3
0.6	4	75	22.7	160	41.3	84.6	10.4	35.5	6.9	0.9	6	0.84	4.55	0.9	2.5	0.3
0.6	3.7	60	23.9	170	43.5	82.9	10.8	37.9	7.2	0.85	6.2	0.92	4.8	0.9	2.6	0.4
0.6	5.2	45	36.6	194	61.4	120	15.3	54.2	10	0.85	8.2	1.14	6.2	1.16	3.35	0.4
0.8	9.5	45	44.4	268	121	241	30.1	105	18.6	1.05	14.8	2	9.9	1.86	4.65	0.55
0.8	6.7	35	56	222	102	205	25.5	87.8	16.3	0.9	13.4	2.02	10.4	2.02	5.85	0.7
0.9	9.1	35	59.8	190	108	216	27.5	95.6	17.8	0.95	14.6	2.06	10.7	1.98	5.45	0.65
0.7	5.9	85	28.5	200	47.1	92.4	11.7	41.3	8	1.25	7.2	1.02	5.85	1.14	3.6	0.4
0.7	4.1	80	22.1	116	42.9	86.1	10.7	37.9	7.35	1.15	6.2	0.88	4.75	0.9	2.5	0.3
0.6	3.9	75	19.7	116	39.5	75.6	9.8	34.4	6.65	0.95	5.8	0.8	4.2	0.78	2.2	0.3
0.7	8.1	45	35.1	266	75.6	132	18.8	66.6	11.8	1	10	1.38	7.2	1.38	3.65	0.45
0.6	6.1	35	24.8	174	63.3	123	15.7	52.9	9.7	0.75	8.2	1.06	5.3	0.96	2.6	0.3
0.6	5	50	24.1	174	56.4	108	14.1	48.3	9.05	0.9	7.6	1.02	5.15	0.92	2.5	0.3
0.6	5.7	50	28	188	58.5	109	14.4	52.2	9.2	1.05	8.2	1.08	5.6	1.04	2.8	0.4
0.6	5.2	60	27.5	180	59.2	108	14.9	51.3	9.65	0.95	8	1.1	5.75	1.04	2.8	0.35
0.6	4.8	60	27.6	178	57.5	111	14.4	49.1	9.15	1	8	1.06	5.8	1.04	3	0.35
0.6	4.3	60	24.8	176	53.7	103	13.4	46.8	8.6	0.95	7.4	1	5.2	0.96	2.6	0.3
0.6	5.3	65	28.7	196	59.8	111	14.7	51.9	9.65	1.1	8.2	1.14	6	1.16	3.1	0.35
0.6	4.2	60	25.9	164	51.9	99.8	13.1	45.2	8.5	1	7.4	1	5.25	0.98	2.65	0.3
0.6	5.1	60	25.5	192	55.6	107	14	48	8.95	0.95	7.6	1.02	5.35	1.04	2.7	0.3
0.6	4.5	50	23.3	196	55.5	108	13.9	48.4	8.8	0.9	7.4	0.96	5.15	0.9	2.5	0.3
0.5	3.3	65	19.9	124	41.8	82.9	10.7	36.3	7	0.85	6	0.8	4.2	0.76	2.15	0.3
0.6	4.1	65	30.1	158	53	108	13.4	46.7	8.7	0.95	7.2	0.96	4.9	0.9	2.4	0.3
0.6	4	50	25.2	206	58.9	117	14.6	51.3	9.45	0.9	7.8	1.02	5.55	1	2.75	0.3
0.7	4.5	70	39.3	168	67	132	16.8	60.1	10.8	1.15	9.2	1.24	6.15	1.1	3.2	0.35
0.9	4.2	70	30.7	134	63.3	120	15.7	54.8	10.2	1.3	8.8	1.2	6.25	1.16	3.1	0.35
0.7	4.4	65	34.6	192	66.7	132	16.8	60.5	11.1	1.2	9.4	1.22	6.5	1.18	3.35	0.4
0.5	3.7	60	22.7	170	55.5	109	14	48.7	8.95	0.9	7.6	0.98	4.9	0.9	2.35	0.3
0.6	3.3	70	21.8	146	50	99.8	12.8	44.3	8.45	1	7	0.94	4.85	0.9	2.4	0.3
0.6	5.1	45	25.7	160	55.7	106	13.8	48.2	9.05	0.9	7.6	1.02	5.45	1	2.75	0.3

0.6	4.5	60	23.7	172	50.2	96	12.5	43.2	8.15	0.85	6.8	0.94	5.2	0.9	2.45	0.3
0.9	6.3	50	28.9	166	61.8	122	15.4	53.7	10	1	8.4	1.18	6.2	1.16	3.15	0.4
0.9	7.1	40	20	128	40.8	78.2	10.3	36.5	7.15	0.8	6.2	0.86	4.3	0.76	1.9	0.25
0.6	4.7	40	18	120	37.7	75.5	9.65	33.8	6.45	0.8	5.6	0.78	4.45	0.72	1.95	0.25
0.6	7	45	19.9	114	36.3	72.5	9.3	33.5	6.5	0.9	5.8	0.8	4.2	0.78	2.15	0.3
0.5	3.6	20	11.1	72	22.2	43.1	5.35	19.9	3.8	0.45	3.2	0.44	2.35	0.44	1.4	0.15
0.8	7	40	18	130	37.4	72.5	9.4	33.1	6.35	0.75	5.4	0.74	3.85	0.7	1.9	0.25
1	9.8	40	22.1	144	46.3	89.3	11.6	41	8	0.85	6.8	0.96	5.05	0.9	2.3	0.3
1.1	10.1	30	23.8	170	54	109	13.7	47.7	9.45	0.8	8	1.12	5.55	0.9	2.35	0.3
0.7	5.7	35	17.2	118	38.4	74.4	9.65	33.7	6.45	0.65	5.6	0.74	3.85	0.68	1.8	0.25
0.7	3.4	50	19.5	116	40	81.4	10.2	35.9	6.9	0.9	6	0.8	4.1	0.76	2.05	0.25
1.6	5.5	55	25.7	160	63	121	15.8	55.7	10.6	1.1	8.6	1.12	5.75	1	2.8	0.3
0.9	3.3	75	28.2	140	52.5	103	13.3	47	8.9	1.25	7.8	1.06	5.75	1.12	3.15	0.4
0.7	3.9	65	23.9	120	52.4	101	12.9	45.3	8.6	1.15	7.2	0.96	5.15	0.94	2.55	0.3
0.4	2.5	150	20.8	92	32.8	63.7	8.3	29.8	5.9	0.9	5.6	0.8	4.4	0.84	2.35	0.3
0.7	3.8	45	20.9	118	40.5	78.7	10.2	35.9	6.95	0.8	6	0.8	4	0.74	1.9	0.25
0.7	3.8	85	25.1	142	40.2	78.6	10.5	37.5	7.55	1.1	6.8	0.96	5.2	1	2.75	0.35
0.6	3.9	55	23.8	144	40.7	82.2	10.5	37.8	7.35	0.95	6.4	0.9	4.85	0.9	2.75	0.3
0.6	4.6	60	25.6	132	44.2	87	11.5	40.7	7.9	1.1	7	0.96	5.2	0.94	2.6	0.35
0.7	3.7	65	26.5	128	44.6	88.5	11.5	41.4	8.05	1.2	7	0.98	5.5	1	2.7	0.35
0.8	5	65	29.5	174	59	115	15	53	10.3	1.2	8.4	1.14	5.75	1.02	2.7	0.3
0.9	3.7	65	27.6	206	53.5	102	13.5	47	9.05	1.1	8	1.14	5.8	1.08	3.5	0.4
0.7	3.2	60	24.2	146	42.5	84.6	10.8	38.5	7.45	1	6.6	0.9	5	0.9	2.6	0.3
0.6	3.3	55	21.3	144	43.3	86.1	11.2	39.6	7.6	0.9	6.4	0.84	4.6	0.82	2.2	0.3
0.6	3.9	55	23.9	156	49.2	101	12.9	45.8	8.7	0.9	7.2	0.96	4.85	0.9	2.3	0.3
0.7	9.4	30	35.6	174	148	311	40.6	147	26.3	1.6	19.4	2.36	9.55	1.38	3.05	0.3
1.1	6.9	30	39.6	198	146	304	40.4	150	28.2	1.4	21.8	2.56	11	1.64	3.6	0.4
0.6	3.9	35	19.7	142	48.6	97.9	12.5	44.6	8.5	0.8	6.8	0.92	4.55	0.78	2	0.25
1	5.9	25	21	188	66.6	133	16.5	59.4	10.6	0.6	8.6	1.12	5	0.84	2.1	0.25
1.1	5.1	20	23.8	172	59.2	119	14.7	51.3	9.65	0.55	7.8	0.98	4.8	0.86	2.1	0.25
1.7	3.8	25	13.1	110	27.4	54.4	6.6	23.6	4.65	0.45	4	0.56	2.8	0.48	1.3	0.15
1.2	12.4	25	21.6	188	51.6	104	13.2	45.2	8.6	0.55	7	0.92	4.75	0.8	2.2	0.3
0.8	4	25	12.1	98	26.8	52.4	6.4	23.1	4.35	0.5	3.6	0.5	2.7	0.56	1.2	0.15
0.8	4	25	15.8	110	38.3	75.6	9.55	32.9	6.15	0.55	5	0.66	3.5	0.62	1.65	0.2
0.7	3.6	65	23.2	132	42.7	85.3	11.1	39.6	7.65	1.15	6.6	0.92	4.85	0.9	2.45	0.3
0.6	3.5	55	22	146	43.6	84.6	11.1	38.7	7.45	0.9	6.2	0.86	4.55	0.88	2.35	0.3
0.6	4.2	60	28.4	158	53.9	99.8	13.8	49.2	9.35	1.2	8	1.08	5.65	1.06	2.9	0.45
0.7	3.9	60	21.4	122	45.5	88.5	11.5	40.1	7.65	0.95	6.2	0.88	4.65	0.88	2.45	0.3
0.6	2.3	35	16.5	86	33	65.6	8.15	28.6	5.4	0.6	4.4	0.62	3.2	0.6	1.6	0.2
0.7	3.4	50	26.7	114	46.8	94.2	11.8	41.7	7.95	1	6.8	0.94	4.95	0.94	2.45	0.3
0.7	3.5	45	21.5	150	54.3	108	13.5	46.7	8.8	0.9	7.2	0.96	4.75	0.86	2.3	0.3
0.6	3.8	45	23.2	158	53.3	107	13.5	47.9	8.8	0.9	7.4	0.98	5.05	0.98	2.45	0.3
0.6	3.9	50	23.4	146	53.5	103	13.5	46.6	8.7	1	7.4	0.96	5.05	0.92	2.45	0.3
0.8	4.1	65	31.7	150	50	99.8	12.8	45	8.6	1.1	7.2	0.98	5.2	0.98	2.65	0.35

0.7	3.8	50	21.5	146	48.6	101	12.5	43.4	8.2	0.9	6.6	0.9	4.6	0.82	2.25	0.3
0.7	3.3	45	19.9	132	42.2	80.6	10.6	37.7	7.1	0.9	6	0.8	4.25	0.8	2.15	0.3
0.6	3.2	35	28.6	124	43.3	84.6	10.7	36.9	7.1	0.75	5.8	0.74	3.6	0.64	1.7	0.2
0.6	2.6	45	20	108	35.8	71.8	9	31.4	5.95	0.75	5	0.7	3.75	0.66	1.85	0.25
0.7	2.8	50	16.7	112	37.7	76.1	9.4	33	6.25	0.85	5.4	0.7	3.6	0.68	1.8	0.25
1	3.5	60	22	140	48.6	96	11.9	42	8.1	1.05	6.6	0.86	4.4	0.78	2.1	0.3
0.7	3.4	45	18.4	140	48	95	11.9	41.9	7.95	0.9	6.4	0.82	4.15	0.74	1.9	0.25
0.6	3.5	45	23.3	174	52.6	106	13.4	46.8	8.8	0.9	7.4	0.96	5	0.9	2.45	0.3
0.5	4	30	20.9	210	49.2	97.9	12.4	41.9	7.8	0.55	6.2	0.84	4.75	0.78	2.15	0.3
0.6	3.7	40	23.6	176	56.3	111	14.2	48.9	9.2	0.9	7.6	1	5.35	0.94	2.5	0.3
0.6	4.5	40	24.6	188	65	128	16.1	55	10.4	0.9	8.2	1.1	5.45	0.98	2.75	0.3
0.6	10	45	50.1	434	147	297	36.9	131	22.9	1.05	17.8	2.24	10.8	1.86	4.5	0.6
0.6	3.4	45	22.6	180	48.9	96	12.1	42.1	7.95	0.85	6.8	0.92	4.8	0.88	2.4	0.3
0.6	4.9	50	30.1	194	64.3	124	16.2	58.5	10.8	1.15	9	1.28	6.3	1.18	3.25	0.4
0.6	3.9	60	22.1	142	51	105	11.8	43.3	8.35	1.1	7.2	0.98	5.15	0.9	2.6	0.35
0.7	4	70	23.8	146	45.8	90.1	11.2	39.9	7.8	1.05	6.6	0.92	4.85	0.92	2.65	0.3
0.7	4.1	65	23.8	138	48.6	93.2	12.3	43.6	8.4	1.1	7.2	0.96	5.1	0.96	2.55	0.3
0.7	3	55	18.7	118	39.1	82.1	10.1	33.8	6.55	0.85	6.2	0.74	4.25	0.72	2.15	0.25
0.5	2.8	60	23	132	40.7	77.4	10.4	34.3	6.75	0.95	6.8	0.8	4.8	0.86	2.45	0.3
0.7	3.3	80	27.1	142	44	88	11.7	39.2	7.95	1.3	8.2	0.96	5.85	1.06	3	0.4
0.5	3.2	65	20.6	126	39.9	79.9	10.3	34.5	6.9	1	6.8	0.8	4.65	0.82	2.35	0.3
0.7	3.2	70	22.8	118	40.8	80.3	10.3	35	6.9	1.05	7	0.82	4.85	0.84	2.45	0.3
0.5	2.9	65	15.3	126	35.4	73.8	9	29.7	5.85	0.75	5.4	0.64	3.75	0.64	1.8	0.25
0.7	2.7	65	19.5	118	38.2	77	9.7	32.3	6.35	0.9	6	0.72	4.15	0.74	2.05	0.3
0.7	3	60	23.7	124	46	92.7	11.9	39.6	7.7	1.1	7.4	0.88	5.05	0.9	2.5	0.3
0.5	2.9	55	21.4	118	45.8	86.9	11.5	38.2	7.3	0.95	7	0.8	4.6	0.8	2.25	0.3
0.5	2.9	45	18	118	40.8	83.8	10.3	34.1	6.55	0.8	6	0.7	4	0.7	2	0.25
0.7	2.9	70	22.8	120	41.2	80.8	10.8	35.9	7.15	1.05	7	0.84	4.85	0.88	2.45	0.3
0.5	2.7	60	20.9	106	36.1	69.5	9.45	32	6.3	0.95	6.2	0.74	4.4	0.78	2.25	0.3
0.5	2.9	60	23.7	118	38.2	75	10	34	6.8	1.05	6.8	0.8	4.85	0.88	2.5	0.35
0.7	3.8	60	22.3	126	39.3	83.4	10.4	34.9	6.95	1	7	0.84	4.85	0.86	2.5	0.3
0.7	3.6	60	23.4	134	41.8	87	11	36.4	7.15	1	7	0.84	4.85	0.86	2.45	0.35
0.5	3.1	45	21.5	128	40.8	82.8	10.6	35.1	6.9	0.85	6.8	0.78	4.5	0.86	2.3	0.3
0.7	3.4	60	21.8	132	38.9	81.7	10.1	34	6.7	0.95	6.8	0.8	4.65	0.82	2.35	0.3
0.7	3.6	60	23	130	37.8	77.8	9.35	33.6	6.4	0.95	5.4	0.76	4.3	0.82	2.25	0.3
0.6	3.8	55	22.9	112	39.8	82.1	9.8	35.5	6.9	1.05	5.8	0.82	4.4	0.82	2.25	0.3
0.6	3.6	55	23.4	120	41.4	82.9	10.1	36.4	7	1.05	6	0.84	4.45	0.84	2.3	0.35
0.6	3.7	70	25.3	128	43.3	85.9	10.6	38.8	7.45	1.2	6.2	0.9	4.85	0.94	2.55	0.35
0.6	3.2	65	21.4	136	40.1	81.5	9.6	35.1	6.65	0.95	5.6	0.76	4.35	0.8	2.2	0.3
0.6	3.3	75	20.3	130	38.1	77.8	9.05	32.8	6.3	1	5.2	0.74	4.05	0.76	2.1	0.3
0.6	3.3	65	23.7	140	42.9	85.3	10.3	37.1	7.05	1.1	6	0.84	4.45	0.86	2.35	0.35
0.6	3.4	60	22.7	128	43	84.2	10.1	36.5	6.9	1	5.8	0.82	4.35	0.82	2.2	0.3
0.6	3.3	60	22.1	130	40.7	79.9	9.7	35.1	6.75	1	5.6	0.82	4.2	0.84	2.25	0.3
0.5	3.3	55	22.6	120	40.4	82.3	9.7	35.2	6.75	0.95	5.6	0.78	4.4	0.82	2.25	0.3

0.5	3.6	50	22.2	134	41.2	86.3	10.3	36.7	7.05	1	5.8	0.82	4.4	0.8	2.2	0.3
0.6	3.8	60	23.1	134	42	86.2	10.3	37.3	7.3	1.05	6	0.86	4.65	0.86	2.25	0.3
0.5	3.1	50	19.7	124	37.9	77.4	9.2	33.1	6.3	0.85	5.2	0.72	3.85	0.78	1.95	0.25

Yb	Lu	TREE
2.5	0.36	274.07
2.75	0.38	276.82
2.3	0.36	240.45
2.45	0.34	255.81
2.3	0.38	255
2.6	0.34	248.82
2.65	0.36	255.73
2.45	0.34	271.11
3.3	0.42	367.16
2.55	0.36	237.3
2.45	0.34	234.66
3	0.36	234.59
2.5	0.34	196.31
2.3	0.28	191.15
2.4	0.34	197.43
2.6	0.34	201.91
3.3	0.44	285.94
3.8	0.52	554.83
4.85	0.68	477.42
4.5	0.64	506.43
3	0.44	224.4
2.3	0.34	204.27
2.1	0.28	183.36
3.25	0.44	333.55
2.25	0.3	286.32
2.2	0.3	256.74
2.5	0.34	266.31
2.55	0.34	265.93
2.55	0.36	264.31
2.3	0.32	246.53
2.65	0.36	271.11
2.3	0.32	239.7
2.35	0.34	255.2
2.2	0.36	255.27
1.95	0.26	195.97
2.2	0.3	249.91
2.35	0.32	273.24
2.45	0.36	311.9
2.6	0.36	289.12
2.85	0.42	313.62
2.25	0.3	256.63
2.05	0.32	235.11
2.9	0.34	255.01

2.1	0.3	229.89
2.7	0.36	287.45
1.7	0.26	189.98
1.9	0.26	179.81
2.1	0.28	175.41
1.15	0.16	104.09
1.75	0.24	174.33
2.05	0.3	215.71
2.05	0.3	255.22
1.6	0.22	177.99
1.9	0.28	191.44
2.45	0.36	289.58
2.8	0.4	248.43
2.25	0.32	241.02
2.15	0.32	158.16
1.65	0.24	188.63
2.5	0.36	195.37
2.2	0.32	198.12
2.3	0.32	212.07
2.45	0.36	215.59
2.4	0.34	275.55
2.7	0.38	249.15
2.3	0.38	203.83
2.05	0.28	206.19
2	0.3	237.31
2.1	0.32	712.96
2.6	0.38	713.98
1.9	0.26	230.36
2.05	0.24	306.9
1.85	0.26	273.3
1.7	0.18	128.27
1.85	0.28	241.25
1.15	0.16	123.57
1.95	0.2	176.83
2.25	0.34	206.11
2.15	0.3	203.94
2.55	0.36	249.3
2.2	0.3	212.06
1.4	0.2	153.57
2.1	0.3	222.23
1.95	0.28	250.8
2.1	0.3	250.96
2.3	0.3	245.98
2.45	0.34	237.45

1.95	0.28	232.3
1.95	0.28	195.63
1.5	0.22	197.75
1.6	0.22	168.73
1.65	0.22	177.6
2.15	0.28	225.12
1.75	0.24	221.9
2.3	0.28	248.09
2.3	0.28	227.35
2.2	0.3	260.69
2.2	0.32	296.7
4	0.6	678.25
2	0.28	226.28
3	0.4	299.76
2.35	0.34	240.42
2.3	0.36	214.75
2.25	0.32	226.84
1.75	0.28	188.84
2.2	0.32	189.03
2.6	0.42	214.64
2.1	0.32	190.64
2.15	0.34	193.1
1.6	0.26	168.84
1.85	0.28	180.54
2.2	0.34	218.57
1.9	0.3	208.6
1.85	0.28	192.13
2.2	0.38	195.8
2	0.3	171.27
2.2	0.34	183.77
2.2	0.34	194.84
2.15	0.34	203.19
2	0.3	194.89
2.2	0.32	190.59
2.2	0.32	182.25
2.2	0.34	192.08
2.3	0.34	196.27
2.4	0.36	205.8
2.1	0.32	190.33
2	0.3	180.5
2.6	0.34	201.54
2.15	0.34	198.48
2.15	0.32	189.63
2.15	0.32	191.92

2.1	0.32	199.29
2.2	0.34	201.61
1.9	0.28	179.68

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*	• Soil samples were collected from B Horizon (approx. 5-25cm below surface). All samples were sieved to -80mesh to collect an approximately 500g sample that was submitted to Bureau Veritas Adelaide for analysis. • Rock chips were collected to provide a representative geochemical sample by collecting lots of small rock fragments from the target site. An approximate 1kg sample was submitted to Bureau Veritas Adelaide for analysis. • Analytical samples were dried, crushed to -10microns, split then pulverized in LM5 with 85% passing -75 microns. All multi-element samples submitted to mixed acid digestion followed by ICP-AES and ICP-MS analysis. Gold was analysed using a lead collection Fire Assay (40g charge) followed by an ICP-MS finish.

Criteria	JORC Code explanation	Commentary
	mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.	• Refer to LMS announcement 31/7/2024 for details of airborne radiometric data, collected at the same time as airborne magnetic data.
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).*	• Hand dug holes used to collect soil samples (see above). • Geopick used to collect rock chip samples.
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.*	• N/A
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.* • *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.*	• Geological notes were recorded at each sampling site to record soil horizon, colour, moisture, source, in situ vs transported, etc.

1

Criteria	JORC Code explanation	Commentary
	• *The total length and percentage of the relevant intersections logged.*	
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.*	• No sub-sampling was completed.
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.* • *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.*	• Litchfield inserted OREAS QAQC samples at a rate of 1:25. • Additionally, Bureau Veritas inserted lab standards, blanks and repeats at an approximate rate of 1:15.

1

Criteria	JORC Code explanation	Commentary
	• *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.*	
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.* • *Discuss any adjustment to assay data.*	• This is reconnaissance exploration carried out by site personnel with the aim of identifying areas for further investigation.
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.*	• GPS used to locate sample sites to +/-5m (GDA 94 MGA Zone 52).
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.* • *Whether sample compositing has been applied.*	• Soil samples were collected every 200m on north-south lines. Line spacing varied depending on level of required detail. • Rock chip compositing at each specific location was completing by producing a sample comprising many small chips and resulting in a representative sample.

1

Criteria	JORC Code explanation	Commentary
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.*	• All soil lines were North-South resulting in most samples being collected perpendicular to general structural and lithological strike. • Rock chip samples were collected approximately every 200m when sampling large granite outcrops. Sampling of specific targets was done perpendicular to strike.
Sample security	• *The measures taken to ensure sample security.*	• Samples were stored in a locked container on site before shipping to the laboratory.
Audits or reviews	• *The results of any audits or reviews of sampling techniques and data.*	• QAQC data was reviewed to ensure assay results fall within an acceptable range of 2 standard deviations from expected result.

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	• *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*	• Refer to Section 4 in Independent Geologists Report (IGR) by Ross *et al.*, 2023 for further detail. In summary, the Mount Doreen project is secured by EL 31305 for total of approximately 458km^2. • All tenements within the Mt Doreen are 100% owned by Litchfield Minerals Ltd.

1

Criteria	JORC Code explanation	Commentary
tenure status	*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.*	• The Mt Doreen Project is located 325km northwest of Alice Springs 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.*	• Refer to Section 6 and 7 in Independent Geologists Report (IGR) by Ross *et al,*, 2023 for further detail. A summary of previous exploration and mining is presented below: • 1930- 1956: Minor amounts of copper and tungsten extracted from Silver King, Clark, Mount Irene and Wolfram Hill. • 1969: NT Mines & Water Resources diamond drilling at Clark workings. • 1987 – 2006: White Industries/Mareeba Mining, Bruce and Mules, MIM Exploration/Roebuck Resources, Track Minerals, Poseidon Gold/Yuendumu Mining, BHP, Homestake Gold, Rio Tinto Exploration and Tanami Gold completed geological mapping, geochemical sampling, airborne and ground geophysical surveys, and drilling programs.
Geology	• *Deposit type, geological setting and style of mineralisation.*	• Refer to Section 5 in Independent Geologists Report (IGR) by Ross et al., 2023 for further detail. In summary: • Mount Doreen is located in the southern portion of the Paleoproterozoic Aileron Province of the Arunta Region. • The oldest rocks at Mount Doreen are the multiply deformed and metamorphosed siliciclastic sediments of the Lander Rock

1

Criteria	JORC Code explanation	Commentary
		Formation. The younger volcano sedimentary Patmungala Beds lie in the south of the tenement, and both are intruded by the Yarunganyi Granite. Numerous major faults strike close to east-west and often contain veins or vein swarms of quartz, forming ridges. Neoproterozoic to Palaeozoic sedimentary rocks of the Ngalia Basin overlie the Aileron basement in the southwest of the tenement and along the southern boundary. • Mineralisation is considered to be epigenetic intrusion-related breccia and vein mineralisation with polymetallic copper-lead-zinc-silver-molybdenite and tungsten. Mineralisation is interpreted to be from varied sources and associations as evidenced from mineralisation dating. • The most prominent mineralisation is supergene copper at Silver King with varying lead-zinc-silver in quartz veins and shear zones.
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.*	• No drilling is reported in this report.

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Criteria	JORC Code explanation	Commentary
	• *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.*	
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 drilling or data aggregation is reported in this report.
Relationship between mineralisation widths and intercept lengths	• *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, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').*	• No drilling is reported in this report.

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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.*	• Project location map and plan map of geochemical sample locations are included within the body of the report. • Sample locations were determined with a hand-held GPS (+/- 5m in X/Y/Z dimensions). • Refer to Section 6 and 7 of the Independent Geologists Report (IGR) by Ross *et al.*, 2023.
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 data is reported either in Appendix 1 or within the report text.
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 report 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*	Future planned exploration includes: • Ground EM and IP geophysical surveys • RC and DD drilling.

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	areas, provided this information is not commercially sensitive.	

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