



MetalsGrove
MINING LIMITED

Date

7 June 2023

ASX Code

MGA

Shares on Issue

52,710,000

Company Directors

Mr Sean Sivasamy
Managing Director and CEO

Mr Richard Beazley
Non-Executive Chairperson

Mr Haidong Chi
Non-Executive Director

Chief Financial Officer
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SIGNIFICANT RARE EARTH (REE) SOIL ANOMALY CONFIRMED AT BRUCE PROSPECT

Highlights:

- **Surface sampling identified multiple high priority carbonatite¹ and REE bearing drill targets for upcoming maiden drill programme.**
- **High percentage of valuable magnetic and heavy rare earth elements including:**
 - **Up to 1,800 ppm TREO, 38% HREO/TREO, 31% MREO/TREO, 23% NdPr/TREO, 23% Y₂O₃/TREO.**
- **Significant copper-gold & base metals anomaly also confirmed.**
- **Outcropping strike of carbonatite and high-grade REE mineralisation now extends over 9 km with multiple mineralised targets identified.**
- **Neodymium and Praseodymium distribution in soils, with NdPr oxide values up to 408 ppm and 23% of total REO:**
 - **These are comparable levels with those reported by other NdPr projects including Mount Weld (Lynas ASX: LYC), Ngualla (Peak ASX: PEK) and Nolan's Bore (Arafura ASX: AUR).**
- **Maiden RC drilling programme will commence this quarter to test these high-grade rare-earth anomaly targets, broad conductor and large intrusive system within the Bruce Prospect.**

Critical metals exploration and development company MetalsGrove Mining Limited (ASX: MGA), ("MetalsGrove" "MGA" or the "Company"), is pleased to report a recently completed soil sample programme at the Company's Bruce Prospect confirming additional Rare Earth Elements (REE) targets for drilling.

Recent work has highlighted an outcropping strike of carbonatite and high grade REE mineralisation that now extends more than 9km long with multiple parallel mineralised lodes identified within a 600m wide corridor.

The new carbonatite REE mineralisation significantly increases the footprint of known REE mineralisation to >9kms of strike length.

A total of 1,140 soil samples and chip samples were sent to Intertek Laboratory, with a peak result of **1,800 ppm TREO, 38% HREO/TREO, 31% MREO/TREO, 23% NdPr/TREO, 23% Y₂O₃/TREO.**

MGA has already identified a broad conductor along strike from the Plenty River mine and recent geophysical identified large intrusive system which has not been tested to date. The soil geochemistry highlights and refines new drilling targets for testing in Q2 CY 2023.

Commenting on these encouraging results from the Bruce Prospect, MetalsGrove's Managing Director, Sean Sivasamy said, "We are delighted with the outcomes from this soil sampling program which clearly highlight a large footprint of potentially high-grade mineralisation within our Bruce Prospect. Our geological review has established multiple high priority carbonatite and REE bearing drill targets that will be a priority for testing during our maiden drill programme this quarter.

Our Arunta Project continues to shape as an exciting opportunity for MetalsGrove over the coming months and we look forward to providing regular updates on progress as exploration increases."

HIGH GRADE RARE-EARTH ELEMENTS ASSAY RESULTS FROM SOIL SAMPLES AT ARUNTA

Table 1: Bruce Soil Sampling Significant Assay Result

SAMPLEID	TREO	LREO	HREO	MREO	NdPr	HREO/TREO	MREO/TREO	NdPr/TREO	Y ₂ O ₃ /TREO
	ppm	ppm	ppm	ppm	ppm	ratio	ratio	ratio	ratio
BS300	634	543	112	198	148	18%	31%	23%	8%
BS321	340	226	122	86	55	36%	25%	16%	21%
BS324	407	325	92	109	78	23%	27%	19%	12%
BS401	424	342	92	114	83	22%	27%	20%	11%
BS410	850	706	165	230	173	19%	27%	20%	10%
BS418	430	323	117	111	78	27%	26%	18%	15%
BS429	427	372	67	121	91	16%	28%	21%	7%
BS431	1800	1607	241	519	408	13%	29%	23%	6%
BS452	253	166	92	62	40	37%	24%	16%	22%
BS542	200	134	72	53	33	36%	26%	17%	21%
BS573	220	141	85	57	35	38%	26%	16%	23%
BS587	201	137	70	55	35	35%	27%	17%	19%
BS610	221	144	82	58	36	37%	26%	16%	22%
BS678	214	140	81	62	38	38%	29%	18%	21%
BS679	201	130	77	60	36	38%	30%	18%	21%
BS680	201	137	70	58	36	35%	29%	18%	19%
BS703	215	164	58	64	41	27%	30%	19%	13%
S0048	410	368	53	114	90	13%	28%	22%	6%
S0055	508	457	65	142	110	13%	28%	22%	5%

SIGNIFICANT GRADE RARE-EARTH RESULTS AND MULTIPLE DRILLING TARGETS AT ARUNTA

These exciting results are from the recent soil sampling geochemistry confirming outcropping strike length of carbonatite and high-grade Rare-Earth Elements (REE) mineralisation is now more than 9 km with multiple mineralised zones identified.

The high-grade soil results are from four areas Bruce, Plenty River, Plenty River West and Whistleduck. The Company's eastern and western part of the tenement has never been explored for rare earth mineralisation and is also considered highly prospective for further REE soil anomalies (**Figure 1**).

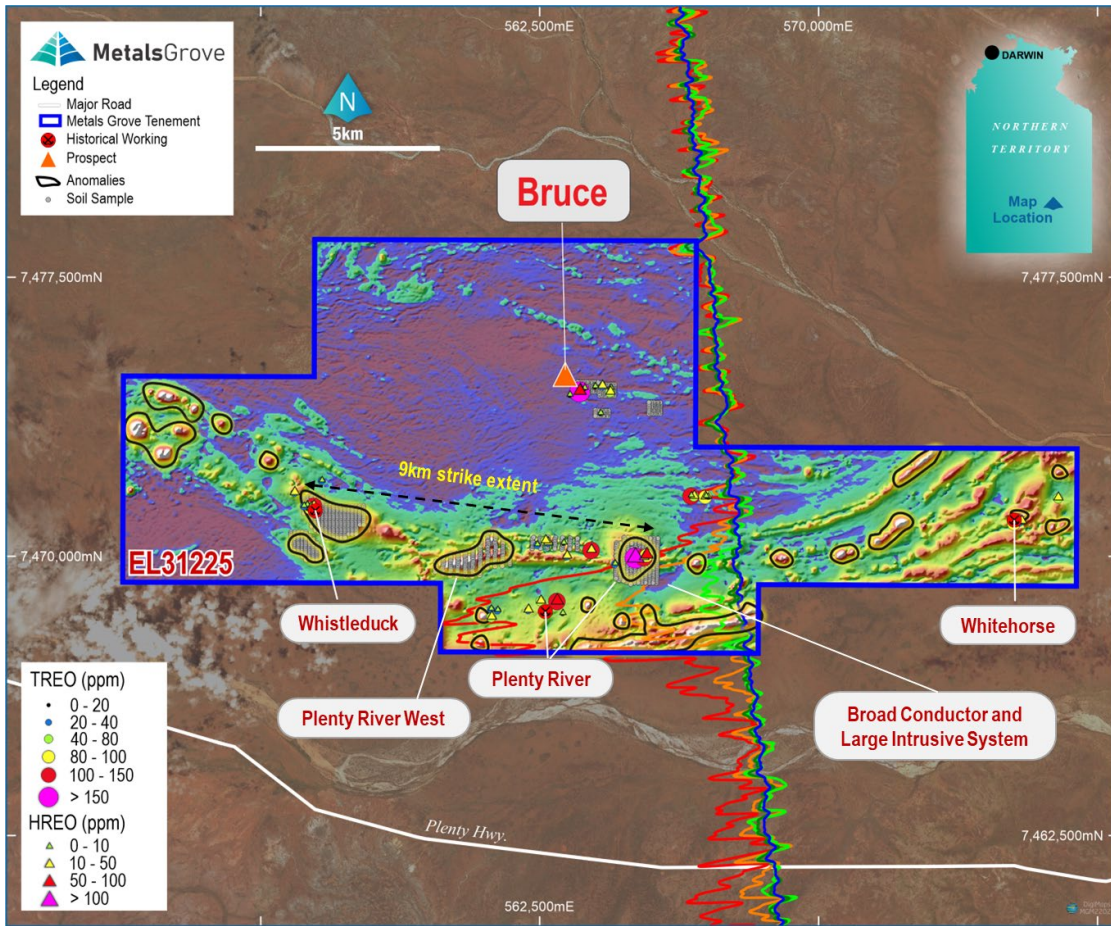


Figure 1: Bruce soil sampling location plan.

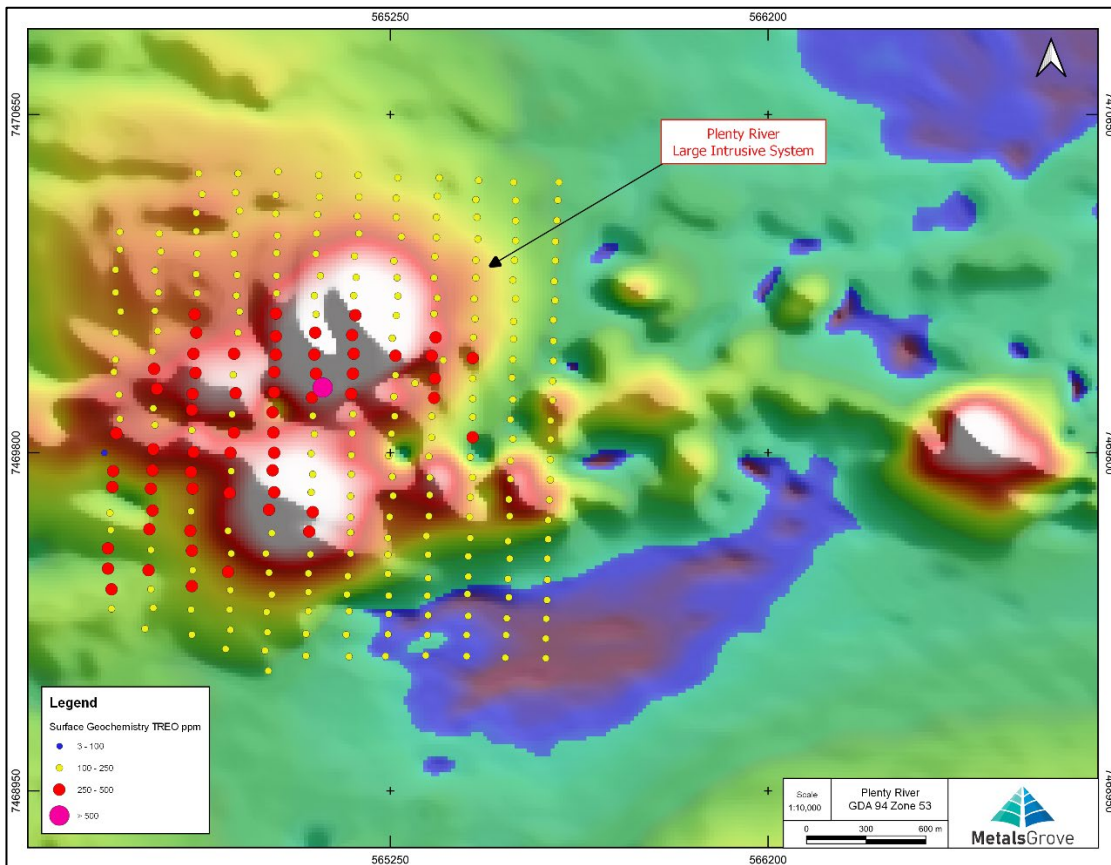


Figure 2: Total Rare Earth Elements (TREO) soil anomaly is associated with Plenty River large intrusion system, Background TMI Analytic Signal Highlights Areas of Magnetic Remanence.

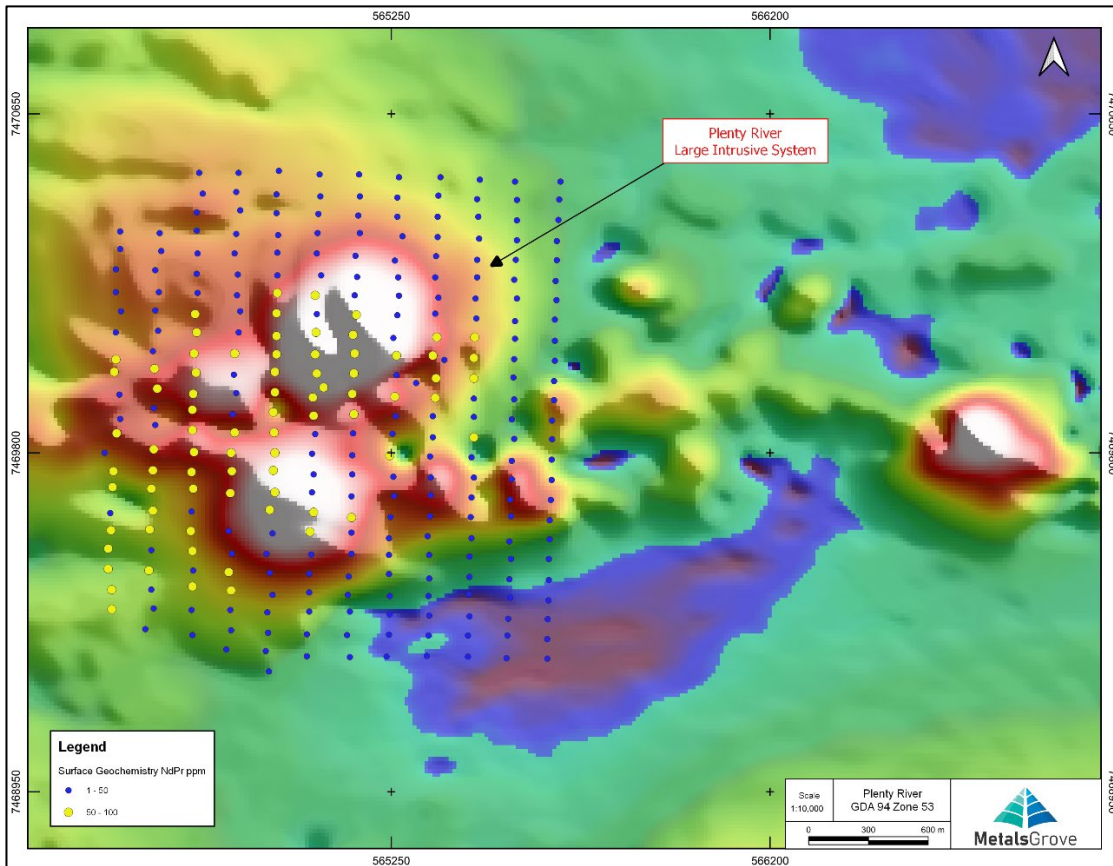


Figure 3: Neodymium and praseodymium (NdPr) soil anomaly is associated with Plenty River large intrusion system, Background TMI Analytic Signal Highlights Areas of Magnetic Remanence.

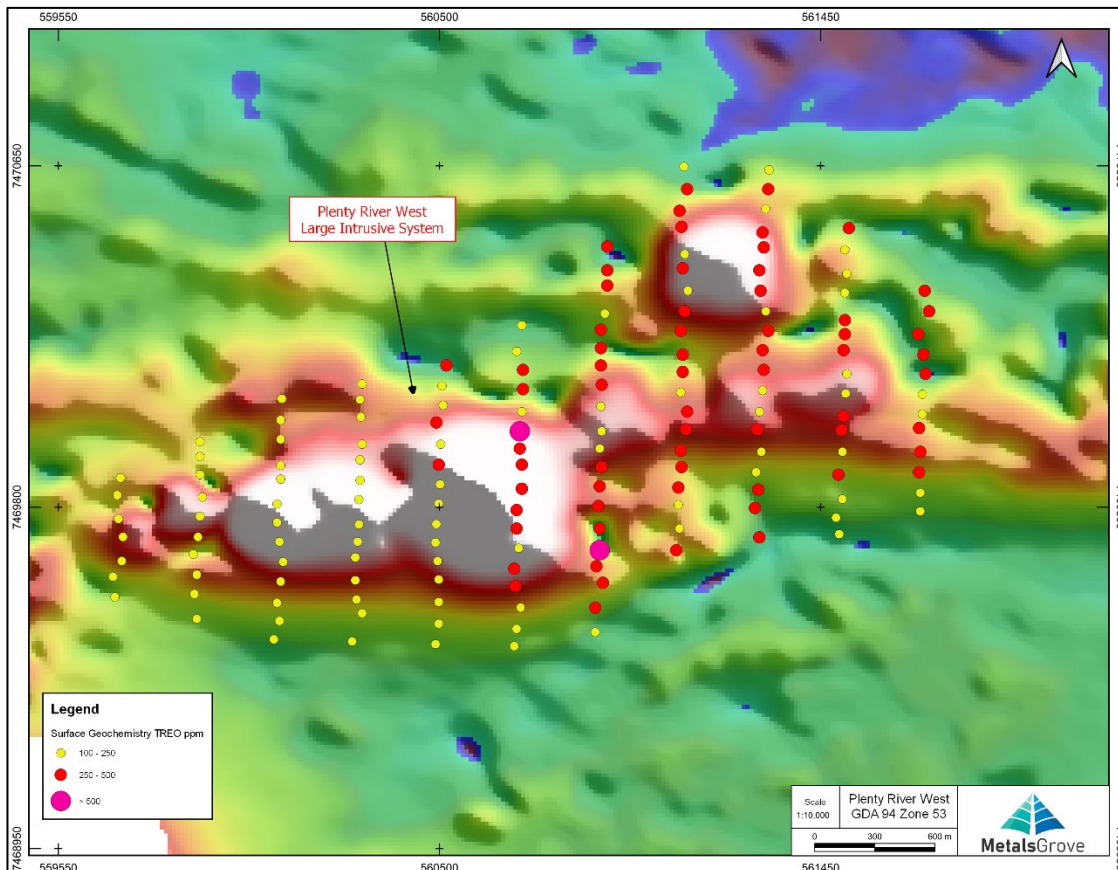


Figure 4: Total Rare Earth Elements (TREO) soil anomaly is associated with Plenty River West intrusion system, Background TMI Analytic Signal Highlights Areas of Magnetic Remanence.

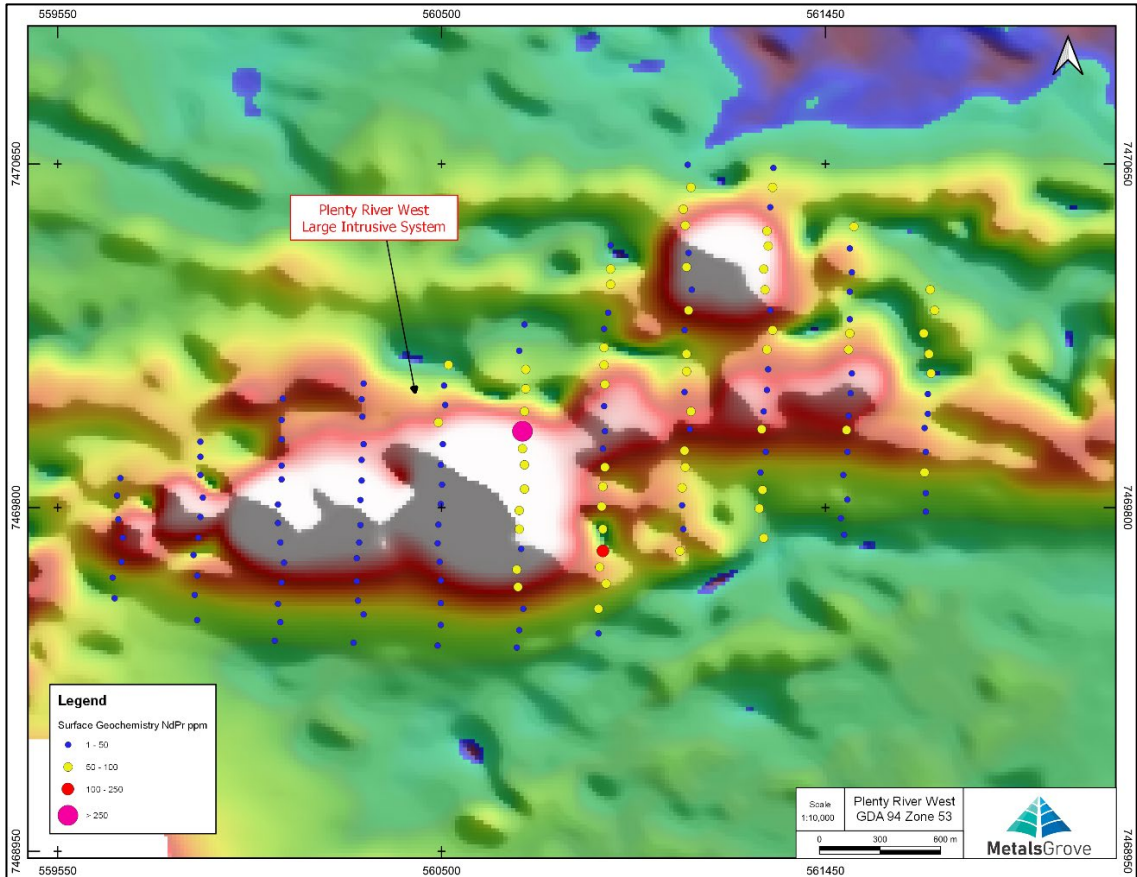


Figure 5: Neodymium and praseodymium (NdPr) soil anomaly is associated with Plenty River West intrusion system, Background TMI Analytic Signal Highlights Areas of Magnetic Remanence.

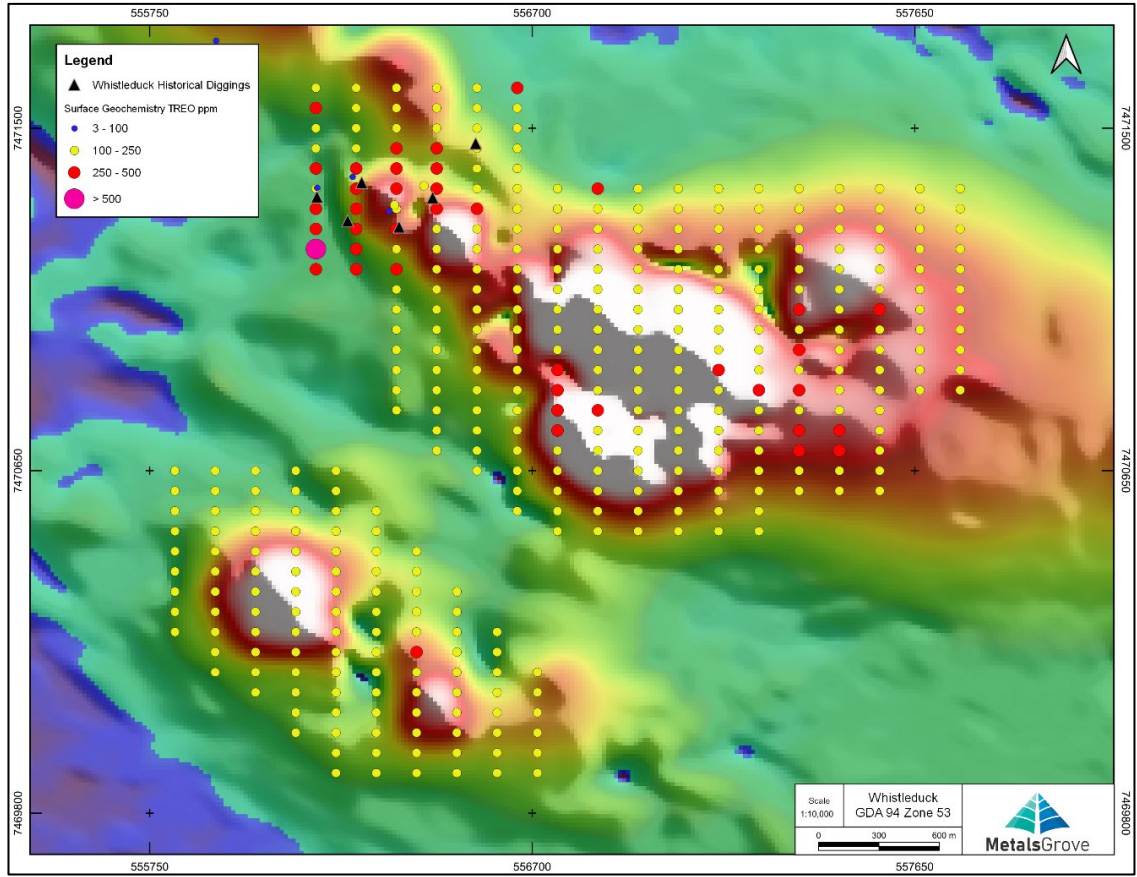


Figure 6: Total Rare Earth Elements (TREO) soil anomaly is associated with Whistleduck MAG anomaly, Background TMI Analytic Signal Highlights Areas of Magnetic Remanence.

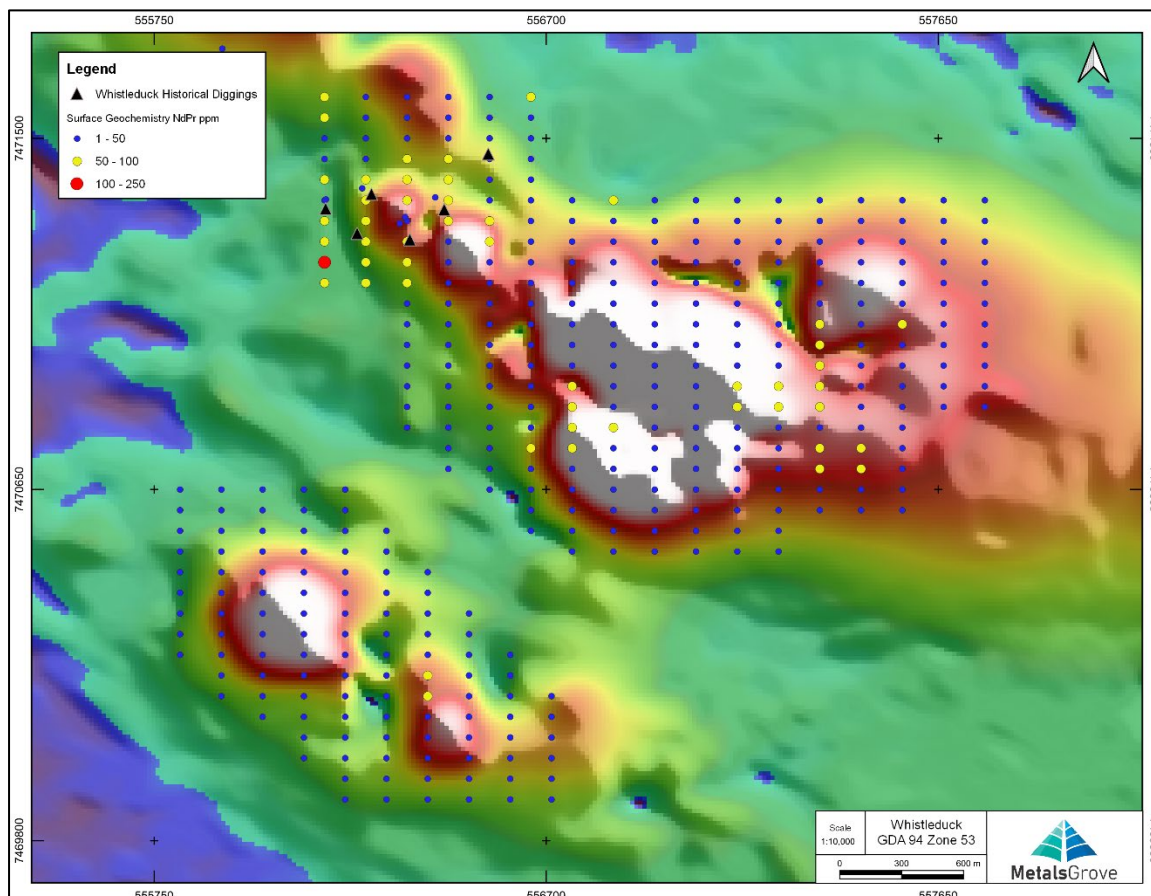


Figure 7: Neodymium and praseodymium (NdPr) soil anomaly is associated with Whistleduck MAG anomaly, Background TMI Analytic Signal Highlights Areas of Magnetic Remanence.

Companies operating within the Arunta region are having success with identifying hard rock rare earth mineralisation within this newly emerging rare earth mineral province. These include Arafura Rare EARTHS Ltd (ASX: ARU), WA1 Resources Ltd (ASX: WA1), Northern Minerals Ltd (ASX: NTU) and Norwest Minerals Ltd (ASX: NWM).

In addition to the high-grade rare earth soil anomalism spread across large areas of the Plenty River and Whistleduck Project, the tenure covers significant sections of the historical pegmatite mica mine. This includes Bruce, Plenty River, Whistleduck and Whitehorse. In addition to rare earth targets, significant untested and highly prospective targets exist for gold-copper and base metals.

Upcoming drilling programme will be targeting shallow, high-grade hard rock rare earth mineralisation as well as testing for other mineral occurrences.

Interestingly, the NTGS has completed a geological study within the Arunta region and identified numerous pegmatites hosting rare earth occurrences, including the Plenty River mica mine area.

Nearly a year ago, MetalsGrove uncovered a broad conductor near the Plenty River mine, making its discovery next to magnetic features that are likely part of a pegmatite intrusion. Recent exploration at the Arunta project has confirmed strong rare earth mineralisation and gold-copper and base metal mineralisation in this area.

AIRBORNE GEOPHYSICS SURVEY AT BRUCE

MetalsGrove acquired a modern airborne magnetic and radiometric survey across the entire Bruce tenement during Q3 2022. Over 3,950-line km of high-density airborne data was collected along 50m spaced flight lines in a N-S direction at a nominal terrain clearance of ~35m. Tie-lines were flown E-W at 10:1 line spacing (**Figure 8**).

The geophysics data suggests there is potential for late-stage intrusions that have not generally been seen in the outcrop. The REE potential in an intrusion-related mineral systems have analogues at the Mount Weld (Y, Nb, Ta, P, Zr, Ti and REE) carbonatite deposit in Western Australia and at the Toongi (Zr-Nb-REE) trachyte deposit in New South Wales.

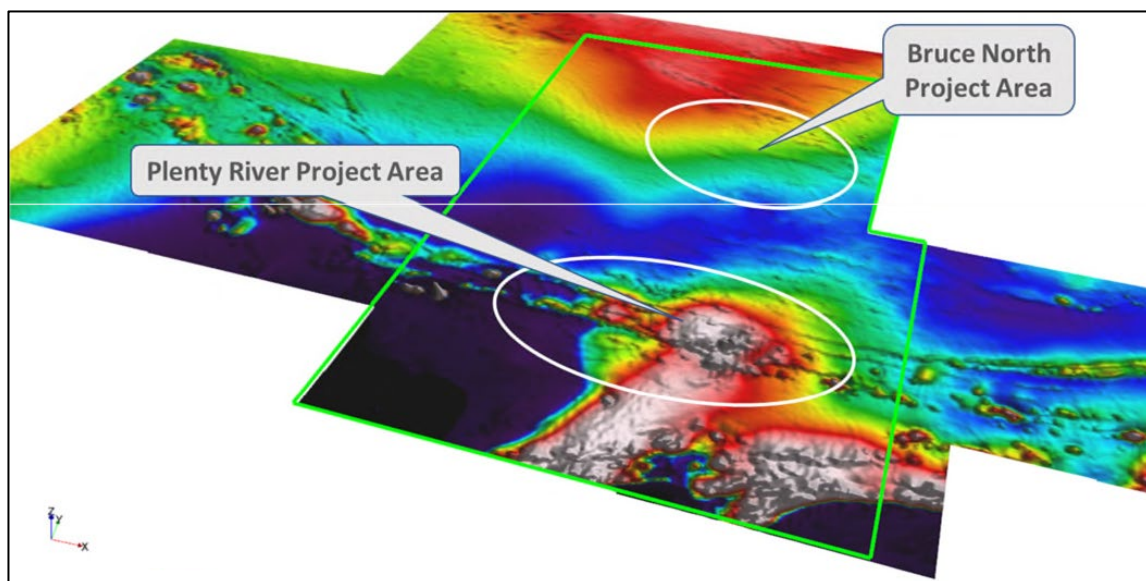


Figure 8: Image of TMI-RTP draped over TMI-RTP-1VD across the Bruce tenement.

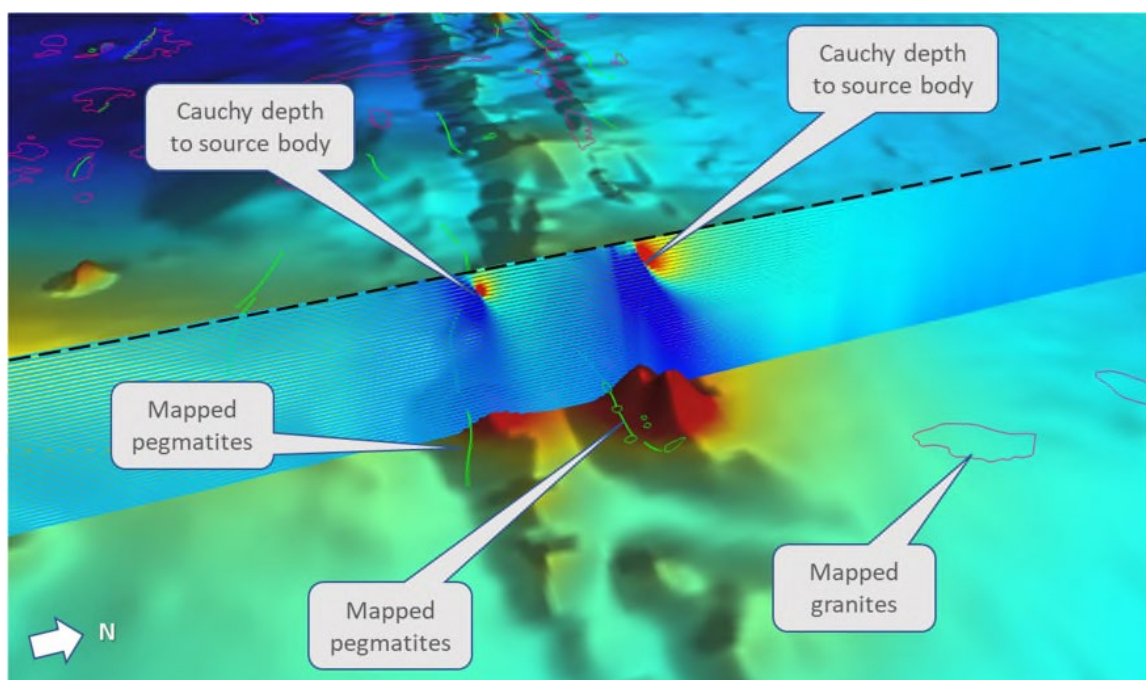


Figure 9: Plenty River-Cauchy downward continuation depths shown along a N-S profile. The Cauchy depth solution is likely responding to the contact of the interpreted intrusion with that of the metamorphic basement.

Table2: Bruce Soil Sampling Assay Result TREO >200ppm

PROSPECTS	SAMPLEID	EAST	NORTH	TREO	LREO	HREO	MREO	NdPr	HREO/TREO	MREO/TREO	NdPr/TREO	Y ₂ O ₃ /TREO
				ppm	ppm	ppm	ppm	ppm	ratio	ratio	ratio	ratio
PLENTY	BS002	565641	7469333	202	175	33	58	44	16%	29%	22%	7%
PLENTY	BS019	565664	7470183	201	167	40	58	42	20%	29%	21%	9%
PLENTY	BS022	565665	7470331	202	165	43	57	41	21%	28%	20%	11%
PLENTY	BS031	565558	7470234	204	175	35	55	41	17%	27%	20%	8%
PLENTY	BS034	565560	7470086	205	174	37	58	43	18%	28%	21%	8%
PLENTY	BS036	565556	7469989	211	178	40	60	45	19%	28%	21%	9%
PLENTY	BS037	565558	7469934	207	174	39	60	44	19%	29%	21%	9%
PLENTY	BS038	565552	7469884	207	178	35	59	45	17%	29%	22%	8%
PLENTY	BS039	565558	7469835	205	175	36	59	44	17%	29%	21%	8%
PLENTY	BS040	565552	7469780	204	173	37	58	43	18%	28%	21%	9%
PLENTY	BS047	565548	7469437	202	171	37	57	43	18%	28%	21%	8%
PLENTY	BS058	565449	7469639	206	175	38	58	43	18%	28%	21%	8%
PLENTY	BS059	565451	7469688	204	172	37	57	43	18%	28%	21%	9%
PLENTY	BS061	565451	7469789	222	193	36	62	47	16%	28%	21%	7%
PLENTY	BS062	565457	7469839	255	220	42	72	53	16%	28%	21%	7%
PLENTY	BS063	565457	7469890	214	181	39	60	44	18%	28%	21%	9%
PLENTY	BS064	565457	7469936	226	190	42	63	46	19%	28%	20%	9%
PLENTY	BS065	565457	7469987	243	208	42	69	51	17%	28%	21%	8%
PLENTY	BS066	565457	7470038	295	255	48	84	63	16%	28%	21%	7%
PLENTY	BS067	565459	7470090	242	208	41	70	52	17%	29%	21%	7%
PLENTY	BS068	565463	7470137	205	174	38	58	43	18%	28%	21%	9%
PLENTY	BS069	565461	7470187	215	184	37	62	46	17%	29%	21%	8%
PLENTY	BS082	565368	7470189	200	169	37	57	42	19%	28%	21%	9%
PLENTY	BS083	565360	7470149	242	205	45	68	50	18%	28%	21%	9%
PLENTY	BS084	565364	7470090	338	290	58	96	71	17%	28%	21%	8%
PLENTY	BS085	565354	7470044	384	332	63	111	83	16%	29%	22%	7%

PLENTY	BS086	565362	7469987	341	292	59	97	72	17%	28%	21%	8%
PLENTY	BS087	565360	7469938	266	227	47	74	55	18%	28%	21%	8%
PLENTY	BS088	565354	7469892	229	192	44	64	47	19%	28%	20%	9%
PLENTY	BS089	565354	7469839	221	186	42	62	46	19%	28%	21%	9%
PLENTY	BS090	565347	7469791	219	188	38	62	46	17%	28%	21%	8%
PLENTY	BS092	565349	7469694	207	174	39	57	42	19%	28%	20%	9%
PLENTY	BS093	565347	7469641	216	183	40	61	45	19%	28%	21%	9%
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PLENTY	BS105	565244	7469496	208	176	38	59	43	18%	28%	21%	8%
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PLENTY	BS203	564846	7469406	235	198	43	67	49	18%	28%	21%	8%
PLENTY	BS204	564848	7469455	238	204	41	68	51	17%	29%	21%	8%
PLENTY	BS205	564842	7469501	253	214	47	71	52	18%	28%	21%	9%
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PLENTY	BS207	564842	7469604	228	195	40	64	47	18%	28%	21%	8%
PLENTY	BS208	564846	7469699	255	213	49	71	52	19%	28%	20%	9%
PLENTY	BS209	564850	7469754	247	209	45	70	51	18%	28%	21%	9%
PLENTY	BS210	564848	7469800	259	219	48	73	54	18%	28%	21%	9%
PLENTY	BS211	564857	7469851	343	291	61	95	71	18%	28%	21%	8%
PLENTY	BS212	564852	7469897	228	182	53	62	44	23%	27%	19%	12%
PLENTY	BS213	564861	7469950	254	207	54	70	50	21%	28%	20%	11%
PLENTY	BS214	564855	7469996	232	193	45	64	47	19%	28%	20%	9%
PLENTY	BS215	564857	7470049	295	249	54	82	60	18%	28%	20%	9%
PLENTY	BS216	564867	7470102	247	205	48	69	50	20%	28%	20%	9%
PLENTY	BS217	564871	7470155	231	192	46	65	48	20%	28%	21%	10%
PLENTY	BS218	564863	7470195	227	187	46	65	47	20%	28%	21%	10%
PLENTY	BS220	564857	7470300	200	167	39	57	41	20%	28%	21%	9%
PLENTY	BS221	564966	7470346	204	172	38	57	42	19%	28%	21%	9%
PLENTY	BS222	564861	7470349	213	178	41	60	44	19%	28%	21%	9%
PLENTY	BS223	564871	7470408	200	165	41	57	41	21%	28%	20%	10%

PLENTY	BS226	564768	7470502	217	180	44	62	45	20%	28%	21%	10%
PLENTY	BS227	564777	7470450	224	187	44	64	46	19%	28%	21%	9%
PLENTY	BS228	564762	7470403	210	174	43	60	43	20%	28%	21%	10%
PLENTY	BS229	564762	7470357	211	171	46	60	43	22%	28%	20%	11%
PLENTY	BS230	564764	7470300	208	172	43	59	43	20%	28%	20%	10%
PLENTY	BS231	564762	7470249	223	185	44	63	46	20%	28%	21%	10%
PLENTY	BS232	564764	7470201	235	197	45	67	49	19%	28%	21%	9%
PLENTY	BS233	564758	7470148	296	247	58	82	60	20%	28%	20%	9%
PLENTY	BS234	564762	7470102	312	265	56	87	64	18%	28%	21%	8%
PLENTY	BS235	564755	7470049	311	264	56	86	64	18%	28%	21%	8%
PLENTY	BS236	564760	7470001	314	267	57	87	65	18%	28%	21%	9%
PLENTY	BS237	564753	7469948	334	288	56	94	70	17%	28%	21%	8%
PLENTY	BS238	564751	7469908	273	232	50	77	56	18%	28%	21%	8%
PLENTY	BS239	564751	7469857	245	207	45	69	51	18%	28%	21%	9%
PLENTY	BS240	564755	7469802	253	209	50	70	51	20%	28%	20%	10%
PLENTY	BS241	564749	7469752	267	223	51	75	55	19%	28%	20%	9%
PLENTY	BS242	564753	7469710	266	222	51	74	55	19%	28%	21%	9%
PLENTY	BS243	564749	7469653	240	206	41	68	50	17%	28%	21%	8%
PLENTY	BS244	564747	7469604	304	256	57	85	62	19%	28%	20%	9%
PLENTY	BS245	564751	7469554	264	228	44	74	55	17%	28%	21%	8%
PLENTY	BS246	564753	7469505	232	194	44	65	48	19%	28%	21%	9%
PLENTY	BS247	564751	7469465	253	214	46	70	52	18%	28%	21%	9%
PLENTY	BS248	564749	7469406	232	196	43	65	48	18%	28%	21%	8%
PLENTY	BS249	564751	7469343	235	196	46	66	48	20%	28%	20%	9%
PLENTY	BS250	564633	7469358	224	189	42	63	47	19%	28%	21%	9%
PLENTY	BS251	564654	7469410	211	175	43	58	42	20%	28%	20%	10%
PLENTY	BS252	564648	7469457	229	194	42	65	49	18%	28%	21%	9%
PLENTY	BS253	564642	7469505	262	226	44	74	55	17%	28%	21%	8%
PLENTY	BS254	564648	7469556	219	184	41	62	46	19%	28%	21%	9%

PLENTY	BS255	564644	7469608	269	222	54	74	54	20%	28%	20%	10%
PLENTY	BS256	564652	7469655	275	230	53	76	56	19%	28%	20%	9%
PLENTY	BS257	564648	7469710	308	257	60	85	63	19%	28%	20%	10%
PLENTY	BS258	564652	7469756	256	211	52	71	52	20%	28%	20%	10%
PLENTY	BS259	564654	7469809	267	224	50	74	54	19%	28%	20%	9%
PLENTY	BS260	564658	7469870	237	199	45	66	49	19%	28%	21%	9%
PLENTY	BS261	564654	7469912	249	209	47	68	50	19%	27%	20%	9%
PLENTY	BS262	564663	7469961	262	219	50	73	53	19%	28%	20%	9%
PLENTY	BS263	564656	7470011	254	211	50	71	52	20%	28%	21%	10%
PLENTY	BS264	564652	7470055	248	207	48	69	50	19%	28%	20%	9%
PLENTY	BS265	564665	7470106	233	197	43	65	48	18%	28%	21%	9%
PLENTY	BS266	564658	7470157	205	172	39	58	42	19%	28%	21%	9%
PLENTY	BS267	564667	7470203	215	180	41	60	45	19%	28%	21%	9%
PLENTY	BS268	564658	7470258	229	191	45	63	46	20%	28%	20%	10%
PLENTY	BS269	564673	7470306	228	187	48	63	46	21%	28%	20%	11%
PLENTY	BS270	564669	7470351	237	188	56	66	47	24%	28%	20%	12%
PLENTY	BS272	564570	7470311	224	189	41	62	46	18%	28%	21%	9%
PLENTY	BS273	564559	7470260	232	198	41	65	49	18%	28%	21%	8%
PLENTY	BS274	564559	7470203	221	191	36	61	46	16%	28%	21%	7%
PLENTY	BS276	564559	7470102	215	177	44	60	44	21%	28%	20%	10%
PLENTY	BS277	564559	7470034	245	209	43	68	51	18%	28%	21%	8%
PLENTY	BS278	564555	7470003	247	210	45	69	52	18%	28%	21%	9%
PLENTY	BS279	564568	7469946	247	207	47	68	50	19%	27%	20%	9%
PLENTY	BS280	564570	7469885	238	199	46	66	49	19%	28%	20%	9%
PLENTY	BS281	564561	7469849	263	216	54	73	53	21%	28%	20%	10%
PLENTY	BS282	564553	7469754	282	230	60	77	56	21%	27%	20%	11%
PLENTY	BS283	564551	7469714	270	226	51	75	56	19%	28%	21%	9%
PLENTY	BS284	564545	7469649	240	200	47	66	49	19%	28%	20%	10%
PLENTY	BS285	564547	7469606	249	209	47	69	51	19%	28%	20%	9%

PLENTY	BS286	564540	7469560	259	215	52	72	53	20%	28%	20%	10%
PLENTY	BS287	564540	7469509	279	234	52	78	58	19%	28%	21%	9%
PLENTY	BS288	564549	7469457	270	233	45	75	57	17%	28%	21%	8%
PLENTY	BS289	564549	7469408	244	207	43	69	51	18%	28%	21%	8%
PLENTY	BS290	563511	7470187	333	278	64	91	68	19%	27%	20%	9%
PLENTY	BS291	563507	7470249	270	221	56	73	53	21%	27%	20%	11%
PLENTY	BS292	563511	7470287	309	252	66	85	62	21%	27%	20%	11%
PLENTY	BS293	563511	7470328	318	260	67	88	64	21%	28%	20%	11%
PLENTY	BS294	563504	7470390	277	224	60	76	55	22%	28%	20%	11%
PLENTY	BS295	563511	7470448	271	216	62	75	54	23%	28%	20%	12%
PLENTY	BS296	563516	7470482	264	219	52	73	54	20%	28%	20%	10%
PLENTY	BS297	563323	7470484	342	276	75	93	67	22%	27%	20%	11%
PLENTY	BS298	563309	7470433	300	234	74	81	57	25%	27%	19%	13%
PLENTY	BS299	563315	7470394	365	291	85	100	71	23%	27%	19%	12%
PLENTY	BS300	563309	7470346	634	543	112	198	148	18%	31%	23%	8%
PLENTY	BS301	563315	7470289	347	294	63	96	72	18%	28%	21%	9%
PLENTY	BS302	563309	7470233	285	235	58	78	57	20%	27%	20%	10%
PLENTY	BS303	563309	7470193	275	218	63	74	53	23%	27%	19%	12%
PLENTY	BS304	563095	7470193	276	220	63	75	54	23%	27%	19%	12%
PLENTY	BS305	563103	7470247	284	229	63	78	56	22%	27%	20%	11%
PLENTY	BS306	563120	7470298	296	240	63	81	59	21%	27%	20%	11%
PLENTY	BS307	563106	7470388	275	213	69	76	54	25%	28%	19%	13%
PLENTY	BS308	563111	7470340	276	216	67	77	54	24%	28%	20%	13%
PLENTY	BS309	563100	7470448	298	241	65	82	59	22%	28%	20%	11%
PLENTY	BS310	563114	7470496	334	269	74	92	66	22%	27%	20%	11%
PLENTY	BS311	562928	7470498	290	218	79	77	53	27%	26%	18%	16%
PLENTY	BS312	562911	7470448	227	174	59	63	44	26%	28%	19%	14%
PLENTY	BS313	562911	7470394	299	242	65	83	60	22%	28%	20%	11%
PLENTY	BS314	562917	7470343	299	247	60	83	61	20%	28%	20%	10%

PLENTY	BS315	562914	7470303	253	197	62	69	48	25%	27%	19%	13%
PLENTY	BS316	562908	7470250	244	190	60	66	46	25%	27%	19%	13%
PLENTY	BS317	562908	7470202	233	185	54	64	46	23%	28%	20%	12%
PLENTY	BS318	562710	7470207	238	181	63	64	45	26%	27%	19%	14%
PLENTY	BS319	562707	7470255	284	221	70	78	55	25%	27%	19%	13%
PLENTY	BS320	562719	7470309	338	265	82	93	65	24%	27%	19%	13%
PLENTY	BS321	562719	7470357	340	226	122	86	55	36%	25%	16%	21%
PLENTY	BS322	562724	7470405	304	236	76	83	57	25%	27%	19%	13%
PLENTY	BS323	562716	7470465	289	226	71	80	55	24%	28%	19%	13%
PLENTY	BS324	562722	7470515	407	325	92	109	78	23%	27%	19%	12%
PLENTY	BS325	562510	7470501	277	214	70	75	52	25%	27%	19%	13%
PLENTY	BS326	562510	7470462	288	229	67	79	55	23%	27%	19%	12%
PLENTY	BS327	562521	7470419	244	172	78	67	44	32%	27%	18%	18%
PLENTY	BS328	562515	7470360	339	272	77	93	66	23%	27%	19%	12%
PLENTY	BS329	562510	7470312	275	222	60	75	54	22%	27%	19%	11%
PLENTY	BS330	562521	7470258	232	185	53	63	44	23%	27%	19%	12%
PLENTY	BS331	562518	7470210	267	210	64	71	50	24%	27%	19%	13%
PLENTY	BS332	562295	7470207	237	185	58	64	44	25%	27%	19%	13%
PLENTY	BS333	562309	7470275	302	237	73	80	56	24%	27%	19%	13%
PLENTY	BS334	562315	7470320	242	184	65	65	45	27%	27%	18%	14%
PLENTY	BS335	562309	7470368	277	205	79	73	49	29%	26%	18%	16%
PLENTY	BS336	562312	7470422	352	277	85	95	67	24%	27%	19%	13%
PLENTY	BS337	562306	7470473	288	223	73	78	54	25%	27%	19%	13%
PLENTY	BS338	562337	7470510	254	199	62	69	49	24%	27%	19%	13%
PLENTY	BS339	561698	7469790	249	197	59	68	48	24%	27%	19%	12%
PLENTY	BS340	561698	7469836	233	181	59	63	44	25%	27%	19%	14%
PLENTY	BS341	561695	7469887	294	233	68	80	56	23%	27%	19%	12%
PLENTY	BS342	561698	7469938	260	205	61	70	50	24%	27%	19%	12%
PLENTY	BS343	561695	7469997	253	193	67	66	46	26%	26%	18%	15%

PLENTY	BS344	561703	7470032	235	186	55	63	45	23%	27%	19%	12%
PLENTY	BS345	561703	7470081	242	186	63	66	46	26%	27%	19%	14%
PLENTY	BS346	561711	7470132	272	219	60	74	53	22%	27%	19%	11%
PLENTY	BS347	561706	7470180	288	233	63	78	56	22%	27%	19%	11%
PLENTY	BS348	561693	7470231	325	262	72	88	63	22%	27%	19%	11%
PLENTY	BS349	561720	7470288	283	229	61	77	55	21%	27%	19%	11%
PLENTY	BS350	561709	7470339	288	226	70	79	55	24%	27%	19%	13%
PLENTY	BS351	561520	7470495	299	227	81	82	56	27%	27%	19%	14%
PLENTY	BS352	561510	7470441	209	152	62	56	38	30%	27%	18%	16%
PLENTY	BS353	561515	7470382	244	190	61	67	47	25%	27%	19%	13%
PLENTY	BS354	561510	7470334	242	184	64	65	45	26%	27%	19%	14%
PLENTY	BS355	561510	7470266	270	205	71	71	49	26%	26%	18%	15%
PLENTY	BS356	561510	7470231	300	247	61	81	59	20%	27%	20%	10%
PLENTY	BS357	561507	7470191	290	238	60	79	58	21%	27%	20%	10%
PLENTY	BS358	561515	7470132	224	177	52	61	43	23%	27%	19%	12%
PLENTY	BS360	561507	7470027	253	202	58	68	48	23%	27%	19%	12%
PLENTY	BS361	561502	7469992	283	226	64	75	54	23%	27%	19%	12%
PLENTY	BS362	561504	7469938	235	185	56	65	46	24%	28%	19%	12%
PLENTY	BS363	561494	7469881	252	198	61	68	48	24%	27%	19%	13%
PLENTY	BS364	561504	7469820	217	167	56	59	41	26%	27%	19%	14%
PLENTY	BS365	561488	7469774	226	179	53	62	43	24%	27%	19%	12%
PLENTY	BS366	561496	7469733	235	183	58	66	46	25%	28%	19%	13%
PLENTY	BS367	561297	7469725	277	230	54	75	55	19%	27%	20%	10%
PLENTY	BS368	561286	7469798	292	233	67	80	56	23%	27%	19%	12%
PLENTY	BS369	561294	7469844	287	228	67	77	54	23%	27%	19%	12%
PLENTY	BS370	561289	7469887	225	171	59	61	42	26%	27%	19%	14%
PLENTY	BS371	561302	7469938	238	188	56	64	45	23%	27%	19%	12%
PLENTY	BS372	561292	7469994	267	211	63	73	51	24%	27%	19%	12%
PLENTY	BS373	561297	7470038	227	181	53	62	44	23%	27%	19%	12%

PLENTY	BS374	561305	7470091	228	180	54	62	43	24%	27%	19%	12%
PLENTY	BS375	561308	7470142	253	200	60	68	49	24%	27%	19%	13%
PLENTY	BS376	561305	7470191	258	212	53	70	51	20%	27%	20%	10%
PLENTY	BS377	561319	7470239	270	216	61	73	53	23%	27%	20%	12%
PLENTY	BS378	561313	7470288	248	193	61	67	48	25%	27%	19%	13%
PLENTY	BS379	561300	7470339	261	207	61	71	51	23%	27%	19%	12%
PLENTY	BS380	561297	7470390	263	210	60	71	51	23%	27%	19%	12%
PLENTY	BS381	561308	7470447	277	220	64	76	54	23%	27%	19%	12%
PLENTY	BS382	561305	7470484	277	224	60	76	55	22%	27%	20%	11%
PLENTY	BS383	561313	7470543	245	189	62	66	46	25%	27%	19%	14%
PLENTY	BS384	561319	7470592	264	211	60	72	52	23%	27%	20%	12%
PLENTY	BS385	561321	7470640	235	184	58	64	45	25%	27%	19%	13%
PLENTY	BS386	561109	7470648	239	186	59	66	46	25%	27%	19%	13%
PLENTY	BS387	561117	7470592	283	228	62	77	56	22%	27%	20%	11%
PLENTY	BS388	561098	7470538	288	230	65	77	56	23%	27%	19%	12%
PLENTY	BS389	561103	7470498	294	239	63	79	57	21%	27%	20%	11%
PLENTY	BS390	561111	7470430	249	196	59	68	48	24%	27%	19%	13%
PLENTY	BS391	561106	7470395	272	220	59	73	53	22%	27%	19%	11%
PLENTY	BS392	561119	7470339	222	175	53	59	42	24%	27%	19%	13%
PLENTY	BS393	561111	7470288	286	239	54	77	57	19%	27%	20%	10%
PLENTY	BS394	561101	7470239	251	199	59	68	49	23%	27%	19%	12%
PLENTY	BS395	561106	7470180	372	317	64	102	77	17%	27%	21%	8%
PLENTY	BS396	561106	7470137	306	251	64	83	61	21%	27%	20%	11%
PLENTY	BS397	561101	7470086	216	174	47	59	43	22%	27%	20%	11%
PLENTY	BS398	561117	7470038	280	231	56	75	55	20%	27%	20%	10%
PLENTY	BS399	561114	7469994	261	204	64	69	49	24%	26%	19%	13%
PLENTY	BS400	561101	7469941	307	242	73	83	59	24%	27%	19%	13%
PLENTY	BS401	561103	7469900	424	342	92	114	83	22%	27%	20%	11%
PLENTY	BS402	561095	7469849	291	228	71	78	55	25%	27%	19%	13%

PLENTY	BS405	561090	7469693	369	306	72	97	72	20%	26%	20%	10%
PLENTY	BS406	560888	7469489	248	199	55	67	49	22%	27%	20%	12%
PLENTY	BS407	560888	7469550	269	216	60	72	52	22%	27%	19%	12%
PLENTY	BS408	560907	7469612	286	225	67	76	55	24%	27%	19%	13%
PLENTY	BS409	560891	7469653	273	211	70	73	51	25%	27%	19%	14%
PLENTY	BS410	560899	7469693	850	706	165	230	173	19%	27%	20%	10%
PLENTY	BS411	560899	7469747	351	297	63	96	72	18%	27%	21%	9%
PLENTY	BS412	560896	7469803	265	215	57	71	52	21%	27%	19%	11%
PLENTY	BS413	560899	7469852	380	303	87	103	74	23%	27%	19%	12%
PLENTY	BS414	560904	7469900	317	258	67	85	63	21%	27%	20%	11%
PLENTY	BS415	560899	7469946	205	159	51	56	40	25%	27%	19%	13%
PLENTY	BS416	560904	7469989	241	194	53	66	48	22%	27%	20%	11%
PLENTY	BS417	560902	7470051	224	179	51	61	44	23%	27%	20%	12%
PLENTY	BS418	560904	7470105	430	323	117	111	78	27%	26%	18%	15%
PLENTY	BS419	560902	7470153	303	256	55	84	62	18%	28%	21%	9%
PLENTY	BS420	560902	7470196	256	210	52	70	51	20%	27%	20%	10%
PLENTY	BS421	560902	7470242	254	202	58	69	49	23%	27%	19%	12%
PLENTY	BS422	560912	7470282	244	199	51	67	49	21%	27%	20%	11%
PLENTY	BS423	560918	7470352	267	213	60	73	53	23%	27%	20%	12%
PLENTY	BS424	560918	7470390	280	226	61	77	56	22%	27%	20%	11%
PLENTY	BS425	560918	7470449	260	203	64	71	50	25%	27%	19%	13%
PLENTY	BS426	560705	7470253	231	183	54	63	45	23%	27%	19%	12%
PLENTY	BS427	560692	7470188	228	188	46	62	45	20%	27%	20%	10%
PLENTY	BS428	560708	7470142	269	224	52	73	54	19%	27%	20%	10%
PLENTY	BS429	560708	7470094	427	372	67	121	91	16%	28%	21%	7%
PLENTY	BS430	560705	7470038	248	204	51	69	51	21%	28%	20%	10%
PLENTY	BS431	560700	7469989	1800	1607	241	519	408	13%	29%	23%	6%
PLENTY	BS432	560700	7469946	328	268	70	90	65	21%	27%	20%	11%
PLENTY	BS433	560705	7469906	320	266	62	87	64	20%	27%	20%	10%

PLENTY	BS434	560705	7469846	301	249	60	82	60	20%	27%	20%	10%
PLENTY	BS435	560692	7469793	268	219	56	74	54	21%	28%	20%	10%
PLENTY	BS436	560692	7469747	259	213	54	71	52	21%	28%	20%	10%
PLENTY	BS437	560697	7469698	228	188	47	64	47	21%	28%	20%	10%
PLENTY	BS438	560686	7469647	259	212	54	72	52	21%	28%	20%	11%
PLENTY	BS439	560689	7469604	273	218	63	73	53	23%	27%	19%	12%
PLENTY	BS440	560702	7469550	246	198	55	68	49	22%	28%	20%	11%
PLENTY	BS441	560692	7469497	209	164	51	58	41	24%	28%	20%	13%
PLENTY	BS442	560686	7469454	219	170	54	59	42	25%	27%	19%	13%
PLENTY	BS443	560490	7469459	207	165	48	57	41	23%	28%	20%	12%
PLENTY	BS446	560498	7469620	204	168	42	57	42	21%	28%	20%	10%
PLENTY	BS448	560490	7469712	236	194	49	66	48	21%	28%	20%	10%
PLENTY	BS450	560498	7469809	216	179	43	60	44	20%	28%	20%	10%
PLENTY	BS451	560501	7469857	237	196	47	66	48	20%	28%	20%	10%
PLENTY	BS452	560498	7469906	253	166	92	62	40	37%	24%	16%	22%
PLENTY	BS454	560492	7470011	268	210	64	71	51	24%	26%	19%	13%
PLENTY	BS457	560517	7470153	318	242	84	84	59	26%	26%	19%	15%
PLENTY	BS464	560299	7469757	225	181	49	62	45	22%	27%	20%	11%
PLENTY	BS465	560299	7469819	244	196	54	67	49	22%	28%	20%	11%
PLENTY	BS466	560302	7469867	243	195	54	67	49	22%	28%	20%	11%
PLENTY	BS467	560302	7469918	211	168	49	59	42	23%	28%	20%	12%
PLENTY	BS468	560307	7469957	223	180	49	63	45	22%	28%	20%	11%
PLENTY	BS469	560304	7470025	201	161	46	56	40	23%	28%	20%	12%
PLENTY	BS470	560302	7470068	213	168	51	59	42	24%	27%	20%	12%
PLENTY	BS471	560307	7470107	209	165	50	57	41	24%	27%	19%	13%
PLENTY	BS473	560104	7470017	208	170	44	58	42	21%	28%	20%	11%
PLENTY	BS474	560104	7469969	207	165	47	57	41	23%	27%	20%	12%
PLENTY	BS476	560104	7469870	204	168	42	57	41	21%	28%	20%	10%
PLENTY	BS479	560101	7469714	205	167	44	56	41	21%	28%	20%	11%

PLENTY	BS480	560110	7469664	207	169	44	57	41	21%	28%	20%	11%
PLENTY	BS483	560101	7469517	204	167	43	57	41	21%	28%	20%	11%
PLENTY	BS484	560087	7469471	216	180	42	61	45	20%	28%	21%	10%
PLENTY	BS486	559889	7469584	203	169	40	57	42	20%	28%	21%	10%
PLENTY	BS487	559895	7469632	207	173	39	59	44	19%	28%	21%	9%
PLENTY	BS491	559909	7469825	206	170	42	57	42	20%	28%	20%	10%
PLENTY	BS498	559711	7469726	215	180	40	60	45	19%	28%	21%	9%
PLENTY	BS499	559708	7469666	208	173	40	58	43	19%	28%	20%	10%
PLENTY	BS500	559686	7469627	229	196	40	65	48	17%	28%	21%	8%
PLENTY	BS501	559691	7469576	204	172	38	57	42	18%	28%	21%	9%
BRUCE	BS502	564342	7473763	251	187	72	69	47	29%	28%	19%	15%
BRUCE	BS503	564342	7473818	204	159	51	57	40	25%	28%	20%	13%
BRUCE	BS504	564345	7473862	224	173	58	62	43	26%	28%	19%	14%
BRUCE	BS505	564344	7473915	240	186	61	67	47	26%	28%	19%	14%
BRUCE	BS506	564288	7473917	218	167	57	60	42	26%	28%	19%	14%
BRUCE	BS507	564290	7473868	260	195	72	72	49	28%	28%	19%	15%
BRUCE	BS508	564286	7473815	232	179	60	65	45	26%	28%	19%	14%
BRUCE	BS509	564290	7473766	297	228	78	84	57	26%	28%	19%	13%
BRUCE	BS510	564233	7473766	218	166	58	61	42	27%	28%	19%	14%
BRUCE	BS511	564243	7473815	228	174	61	64	44	27%	28%	19%	14%
BRUCE	BS512	564243	7473870	200	155	51	56	39	25%	28%	20%	13%
BRUCE	BS513	564245	7473915	230	176	61	64	44	26%	28%	19%	14%
BRUCE	BS514	564191	7473917	201	156	51	56	39	25%	28%	19%	13%
BRUCE	BS516	564196	7473818	249	197	60	71	50	24%	28%	20%	12%
BRUCE	BS517	564193	7473770	202	155	52	57	39	26%	28%	19%	13%
BRUCE	BS518	564136	7473770	224	169	62	62	43	28%	28%	19%	15%
BRUCE	BS519	564144	7473820	219	167	58	60	41	27%	28%	19%	14%
BRUCE	BS520	564142	7473870	203	154	55	55	38	27%	27%	19%	15%
BRUCE	BS521	564142	7473921	228	171	63	62	42	28%	27%	18%	15%

BRUCE	BS522	564096	7473921	233	179	61	63	44	26%	27%	19%	14%
BRUCE	BS523	564092	7473868	226	173	59	62	43	26%	27%	19%	14%
BRUCE	BS524	564090	7473818	214	160	60	59	40	28%	27%	19%	15%
BRUCE	BS525	564094	7473770	219	163	62	60	41	28%	27%	19%	16%
BRUCE	BS528	564042	7473924	208	159	55	57	39	26%	27%	19%	14%
BRUCE	BS532	563993	7473773	203	166	43	58	42	21%	29%	21%	10%
BRUCE	BS535	564502	7474413	205	154	58	57	39	28%	28%	19%	15%
BRUCE	BS536	564504	7474464	227	160	73	62	40	32%	27%	18%	18%
BRUCE	BS537	564504	7474509	207	153	59	56	38	29%	27%	18%	16%
BRUCE	BS539	564513	7474609	224	173	57	61	43	26%	27%	19%	14%
BRUCE	BS540	564462	7474617	254	188	72	68	46	28%	27%	18%	16%
BRUCE	BS541	564460	7474568	231	172	65	61	42	28%	27%	18%	16%
BRUCE	BS542	564458	7474509	200	134	72	53	33	36%	26%	17%	21%
BRUCE	BS543	564458	7474456	226	163	68	60	40	30%	27%	18%	17%
BRUCE	BS544	564456	7474413	217	165	58	60	41	27%	28%	19%	14%
BRUCE	BS545	564456	7474362	211	156	61	57	39	29%	27%	19%	16%
BRUCE	BS548	564404	7474365	221	162	65	59	40	29%	27%	18%	16%
BRUCE	BS549	564407	7474415	236	174	69	65	43	29%	27%	18%	16%
BRUCE	BS552	564409	7474562	235	180	62	64	44	26%	27%	19%	14%
BRUCE	BS553	564407	7474615	262	198	71	70	48	27%	27%	18%	15%
BRUCE	BS556	564360	7474515	217	151	71	58	38	33%	27%	17%	19%
BRUCE	BS557	564356	7474466	209	147	67	56	37	32%	27%	18%	18%
BRUCE	BS558	564358	7474413	245	184	68	67	46	28%	27%	19%	15%
BRUCE	BS559	564354	7474364	227	167	66	61	41	29%	27%	18%	15%
BRUCE	BS560	564356	7474311	203	158	50	56	39	25%	28%	19%	13%
BRUCE	BS561	564298	7474314	201	146	60	54	36	30%	27%	18%	16%
BRUCE	BS562	564309	7474364	232	160	78	61	39	34%	26%	17%	19%
BRUCE	BS563	564307	7474418	216	151	71	58	38	33%	27%	17%	18%
BRUCE	BS564	564309	7474464	215	148	73	59	38	34%	28%	18%	19%

BRUCE	BS565	564307	7474517	256	185	78	69	46	30%	27%	18%	17%
BRUCE	BS567	564309	7474611	274	218	64	74	53	23%	27%	19%	12%
BRUCE	BS568	564258	7474622	207	162	51	57	40	24%	28%	20%	13%
BRUCE	BS570	564256	7474517	272	203	76	74	50	28%	27%	18%	15%
BRUCE	BS571	564256	7474466	233	164	76	63	41	32%	27%	17%	18%
BRUCE	BS572	564252	7474416	268	208	68	74	52	25%	28%	19%	13%
BRUCE	BS573	564261	7474367	220	141	85	57	35	38%	26%	16%	23%
BRUCE	BS576	564205	7474371	278	191	95	74	48	34%	26%	17%	19%
BRUCE	BS577	564207	7474420	223	158	71	60	39	32%	27%	18%	18%
BRUCE	BS578	564210	7474473	295	232	71	83	58	24%	28%	20%	13%
BRUCE	BS579	564205	7474528	237	170	73	65	43	31%	27%	18%	17%
BRUCE	BS580	564207	7474568	206	143	69	56	36	34%	27%	17%	19%
BRUCE	BS583	564158	7474573	298	233	73	83	58	25%	28%	19%	13%
BRUCE	BS584	564161	7474524	238	164	80	63	41	34%	27%	17%	19%
BRUCE	BS585	564156	7474469	209	150	65	57	37	31%	27%	18%	17%
BRUCE	BS586	564158	7474420	217	149	74	58	37	34%	27%	17%	19%
BRUCE	BS587	564158	7474371	201	137	70	55	35	35%	27%	17%	19%
BRUCE	BS588	564149	7474316	228	173	61	64	44	27%	28%	19%	14%
BRUCE	BS589	564107	7474322	223	176	53	62	43	24%	28%	19%	12%
BRUCE	BS591	564107	7474429	203	139	68	54	35	34%	27%	17%	19%
BRUCE	BS592	564110	7474475	239	180	66	66	45	28%	28%	19%	15%
BRUCE	BS593	564098	7474517	247	170	83	66	42	34%	27%	17%	19%
BRUCE	BS594	564112	7474575	265	194	79	73	49	30%	28%	18%	16%
BRUCE	BS595	564110	7474619	271	203	76	74	50	28%	27%	19%	15%
BRUCE	BS596	564110	7474664	220	160	66	59	39	30%	27%	18%	16%
BRUCE	BS597	564061	7474624	204	155	55	56	38	27%	28%	19%	14%
BRUCE	BS598	564061	7474575	343	281	72	96	68	21%	28%	20%	10%
BRUCE	BS599	564054	7474520	297	230	76	81	56	25%	27%	19%	13%
BRUCE	BS600	564056	7474477	217	150	72	58	37	33%	27%	17%	19%

BRUCE	BS604	564012	7474520	224	155	75	60	39	33%	27%	17%	19%
BRUCE	BS605	564014	7474584	293	231	71	81	57	24%	27%	19%	13%
BRUCE	BS607	564010	7474670	208	155	59	57	39	29%	27%	19%	15%
BRUCE	BS609	563952	7474424	268	195	80	73	49	30%	27%	18%	16%
BRUCE	BS610	563952	7474477	221	144	82	58	36	37%	26%	16%	22%
BRUCE	BS611	563957	7474518	241	172	75	65	43	31%	27%	18%	17%
BRUCE	BS612	563959	7474580	210	160	56	58	39	27%	28%	19%	14%
BRUCE	BS613	563957	7474626	201	148	59	55	37	29%	27%	18%	16%
BRUCE	BS614	563965	7474679	207	153	60	56	38	29%	27%	18%	16%
BRUCE	BS616	563904	7474626	201	148	59	55	37	29%	27%	18%	16%
BRUCE	BS617	563910	7474577	219	153	72	60	39	33%	27%	18%	18%
BRUCE	BS618	563904	7474524	213	152	67	59	39	31%	28%	18%	17%
BRUCE	BS619	563906	7474478	249	186	70	68	46	28%	27%	18%	15%
BRUCE	BS620	563908	7474427	242	185	64	67	46	26%	28%	19%	14%
BRUCE	BS621	563859	7474426	292	235	66	82	58	23%	28%	20%	11%
BRUCE	BS622	563861	7474482	218	160	65	62	41	30%	29%	19%	16%
BRUCE	BS624	563863	7474571	221	165	62	62	42	28%	28%	19%	15%
BRUCE	BS625	563863	7474624	200	143	63	55	36	31%	28%	18%	17%
BRUCE	BS629	563813	7474580	217	162	61	61	41	28%	28%	19%	15%
BRUCE	BS630	563806	7474529	232	174	65	65	43	28%	28%	19%	15%
BRUCE	BS632	563806	7474424	240	190	58	68	47	24%	28%	20%	12%
BRUCE	BS633	563802	7474376	226	173	59	63	43	26%	28%	19%	14%
BRUCE	BS634	563742	7474380	227	173	60	63	44	27%	28%	19%	14%
BRUCE	BS635	563759	7474429	261	205	63	73	51	24%	28%	19%	13%
BRUCE	BS636	563757	7474473	245	191	61	67	47	25%	27%	19%	13%
BRUCE	BS638	563757	7474582	212	162	56	58	40	26%	27%	19%	14%
BRUCE	BS639	563764	7474628	207	158	55	57	39	26%	28%	19%	14%
BRUCE	BS640	563768	7474679	204	158	52	56	38	25%	27%	19%	13%
BRUCE	BS641	563706	7474681	206	156	56	56	38	27%	27%	18%	15%

BRUCE	BS643	563711	7474579	224	178	53	63	44	24%	28%	20%	12%
BRUCE	BS644	563711	7474529	277	224	62	78	55	22%	28%	20%	11%
BRUCE	BS645	563708	7474471	228	171	64	65	43	28%	28%	19%	15%
BRUCE	BS646	563710	7474420	234	189	52	65	46	22%	28%	20%	11%
BRUCE	BS648	563640	7474378	217	164	59	60	40	27%	27%	18%	14%
BRUCE	BS649	563646	7474431	286	231	63	80	57	22%	28%	20%	11%
BRUCE	BS650	563660	7474486	296	244	61	83	60	21%	28%	20%	10%
BRUCE	BS651	563662	7474538	203	157	52	56	38	26%	27%	19%	13%
BRUCE	BS652	563660	7474586	288	236	61	80	57	21%	28%	20%	11%
BRUCE	BS653	563660	7474630	232	181	57	64	44	25%	27%	19%	13%
BRUCE	BS654	563657	7474681	220	170	56	61	42	26%	28%	19%	13%
BRUCE	BS655	563611	7474681	214	163	57	59	40	27%	27%	19%	14%
BRUCE	BS656	563615	7474622	210	158	57	57	39	27%	27%	18%	15%
BRUCE	BS657	563613	7474582	218	173	51	59	42	23%	27%	19%	12%
BRUCE	BS659	563608	7474480	249	195	60	68	47	24%	27%	19%	13%
BRUCE	BS662	563555	7474380	200	151	55	54	37	27%	27%	18%	15%
BRUCE	BS663	563557	7474436	330	281	58	91	67	18%	28%	20%	8%
BRUCE	BS665	563562	7474531	277	219	65	75	53	23%	27%	19%	12%
BRUCE	BS666	563560	7474584	207	144	69	56	36	33%	27%	17%	19%
BRUCE	BS667	563558	7474635	209	156	59	57	38	28%	27%	18%	15%
BRUCE	BS668	563560	7474684	214	159	61	59	39	29%	27%	18%	15%
BRUCE	BS669	563518	7474682	212	158	59	57	38	28%	27%	18%	15%
BRUCE	BS670	563513	7474630	218	161	63	59	40	29%	27%	18%	16%
BRUCE	BS671	563515	7474575	217	167	57	61	42	26%	28%	19%	14%
BRUCE	BS672	563502	7474528	235	178	63	64	44	27%	27%	19%	15%
BRUCE	BS673	563511	7474482	219	168	58	62	42	26%	28%	19%	14%
BRUCE	BS674	563507	7474435	248	205	50	69	50	20%	28%	20%	10%
BRUCE	BS675	563511	7474378	221	178	49	61	43	22%	28%	20%	11%
BRUCE	BS676	563503	7474335	235	182	59	66	46	25%	28%	20%	13%

BRUCE	BS677	563555	7474337	231	173	65	66	44	28%	28%	19%	15%
BRUCE	BS678	563603	7474333	214	140	81	62	38	38%	29%	18%	21%
BRUCE	BS679	563659	7474332	201	130	77	60	36	38%	30%	18%	21%
BRUCE	BS680	563710	7474332	201	137	70	58	36	35%	29%	18%	19%
BRUCE	BS681	563756	7474325	206	153	59	58	39	29%	28%	19%	15%
BRUCE	BS683	563703	7474280	215	164	57	60	41	26%	28%	19%	14%
BRUCE	BS686	563552	7474287	223	173	57	61	43	25%	28%	19%	13%
BRUCE	BS687	563509	7474285	242	190	59	67	48	24%	28%	20%	13%
BRUCE	BS688	563456	7474436	325	266	68	91	65	21%	28%	20%	10%
BRUCE	BS689	563452	7474387	250	206	51	70	51	20%	28%	20%	10%
BRUCE	BS690	563454	7474333	242	197	52	68	49	21%	28%	20%	11%
BRUCE	BS691	563463	7474278	223	173	56	62	43	25%	28%	19%	13%
BRUCE	BS692	563456	7474492	214	155	65	59	39	30%	28%	18%	17%
BRUCE	BS693	563454	7474538	203	143	66	55	36	32%	27%	18%	18%
BRUCE	BS694	563454	7474592	219	164	61	60	41	28%	27%	19%	15%
BRUCE	BS695	563392	7474288	214	173	47	59	42	22%	28%	20%	11%
BRUCE	BS696	563401	7474339	230	186	51	64	46	22%	28%	20%	11%
BRUCE	BS697	563399	7474386	230	192	45	64	47	20%	28%	20%	9%
BRUCE	BS698	563407	7474443	249	196	60	69	48	24%	28%	19%	12%
BRUCE	BS699	563407	7474488	222	172	57	61	42	26%	28%	19%	14%
BRUCE EAST	BS700	565738	7473830	243	188	61	67	47	25%	28%	19%	13%
BRUCE EAST	BS701	565740	7473881	231	177	60	64	44	26%	28%	19%	14%
BRUCE EAST	BS702	565736	7473935	213	166	53	59	41	25%	28%	19%	13%
BRUCE EAST	BS703	565738	7473980	215	164	58	64	41	27%	30%	19%	13%
BRUCE EAST	BS704	565741	7474032	225	173	58	62	43	26%	27%	19%	14%
BRUCE EAST	BS705	565741	7474082	213	166	53	59	41	25%	27%	19%	13%
BRUCE EAST	BS706	565738	7474129	206	155	57	56	39	28%	27%	19%	15%
BRUCE EAST	BS707	565684	7474134	216	163	59	60	41	27%	28%	19%	15%
BRUCE EAST	BS708	565686	7474084	204	153	56	56	38	28%	27%	19%	15%

BRUCE EAST	BS709	565689	7474028	259	202	64	71	50	25%	27%	19%	13%
BRUCE EAST	BS711	565686	7473933	205	160	50	58	40	25%	28%	20%	13%
BRUCE EAST	BS712	565684	7473881	221	175	52	61	43	23%	28%	19%	12%
BRUCE EAST	BS713	565688	7473832	241	187	61	66	46	25%	28%	19%	13%
BRUCE EAST	BS714	565637	7473830	213	164	55	59	41	26%	27%	19%	14%
BRUCE EAST	BS715	565642	7473884	234	180	60	64	44	26%	27%	19%	14%
BRUCE EAST	BS716	565642	7473933	210	158	58	57	39	27%	27%	19%	15%
BRUCE EAST	BS717	565646	7473990	241	193	55	69	49	23%	29%	20%	11%
BRUCE EAST	BS718	565642	7474032	205	159	52	56	39	25%	27%	19%	14%
BRUCE EAST	BS719	565642	7474085	224	171	60	62	42	27%	28%	19%	14%
BRUCE EAST	BS720	565644	7474136	255	196	67	71	49	26%	28%	19%	14%
BRUCE EAST	BS721	565597	7474134	247	191	63	69	48	25%	28%	19%	13%
BRUCE EAST	BS722	565592	7474079	211	158	58	57	39	28%	27%	19%	15%
BRUCE EAST	BS723	565592	7474033	214	167	53	59	41	25%	27%	19%	13%
BRUCE EAST	BS724	565596	7473985	228	183	51	63	45	22%	28%	20%	11%
BRUCE EAST	BS725	565594	7473935	234	186	55	65	46	24%	28%	20%	12%
BRUCE EAST	BS726	565589	7473881	222	173	55	61	43	25%	27%	19%	13%
BRUCE EAST	BS727	565585	7473832	215	158	63	58	39	29%	27%	18%	16%
BRUCE EAST	BS728	565540	7473832	209	154	61	58	39	29%	28%	19%	16%
BRUCE EAST	BS729	565538	7473888	214	162	58	58	40	27%	27%	19%	15%
BRUCE EAST	BS730	565549	7473935	222	168	60	60	42	27%	27%	19%	15%
BRUCE EAST	BS731	565544	7473990	203	155	53	56	39	26%	28%	19%	14%
BRUCE EAST	BS732	565547	7474033	224	176	53	62	44	24%	28%	19%	12%
BRUCE EAST	BS734	565552	7474139	201	147	60	54	37	30%	27%	18%	17%
BRUCE EAST	BS735	565493	7474139	215	161	59	59	40	28%	27%	19%	15%
BRUCE EAST	BS736	565492	7474084	204	155	54	55	38	27%	27%	19%	14%
BRUCE EAST	BS737	565492	7474039	209	160	55	58	40	26%	28%	19%	14%
BRUCE EAST	BS738	565492	7473990	204	156	54	57	39	27%	28%	19%	14%
BRUCE EAST	BS739	565481	7473936	213	162	57	58	40	27%	27%	19%	15%

BRUCE EAST	BS741	565486	7473834	235	179	63	66	45	27%	28%	19%	14%
BRUCE EAST	BS742	565434	7473834	254	190	71	69	47	28%	27%	18%	15%
BRUCE EAST	BS743	565438	7473888	216	162	60	59	40	28%	27%	19%	15%
BRUCE EAST	BS744	565439	7473938	203	149	60	55	37	30%	27%	18%	17%
BRUCE EAST	BS745	565439	7473988	212	158	60	58	40	28%	27%	19%	16%
BRUCE EAST	BS746	565439	7474035	217	166	58	60	41	26%	28%	19%	14%
BRUCE EAST	BS747	565439	7474089	205	159	52	57	40	25%	28%	19%	13%
BRUCE EAST	BS748	565439	7474138	204	153	56	55	38	28%	27%	19%	15%
WHISTLEDUCK	S0002	555813	7470600	227	199	34	63	48	15%	28%	21%	7%
WHISTLEDUCK	S0003	555813	7470550	221	192	35	63	48	16%	29%	22%	7%
WHISTLEDUCK	S0004	555813	7470500	207	179	35	58	44	17%	28%	21%	8%
WHISTLEDUCK	S0006	555813	7470400	209	182	33	59	45	16%	28%	22%	7%
WHISTLEDUCK	S0011	555913	7470600	200	172	34	56	42	17%	28%	21%	8%
WHISTLEDUCK	S0012	555913	7470550	208	181	33	59	44	16%	28%	21%	7%
WHISTLEDUCK	S0014	555913	7470450	205	176	34	58	44	17%	28%	21%	7%
WHISTLEDUCK	S0019	555913	7470200	205	179	32	57	44	16%	28%	21%	7%
WHISTLEDUCK	S0023	556013	7470550	215	188	33	60	46	15%	28%	21%	7%
WHISTLEDUCK	S0031	556013	7470150	234	198	42	66	49	18%	28%	21%	9%
WHISTLEDUCK	S0034	556113	7470600	229	193	43	64	47	19%	28%	21%	9%
WHISTLEDUCK	S0036	556113	7470500	204	176	34	57	43	16%	28%	21%	7%
WHISTLEDUCK	S0038	556113	7470400	202	170	38	57	42	19%	28%	21%	9%
WHISTLEDUCK	S0044	556113	7470100	204	172	37	57	42	18%	28%	21%	9%
WHISTLEDUCK	S0047	556163	7471600	245	213	39	68	52	16%	28%	21%	7%
WHISTLEDUCK	S0048	556163	7471550	410	368	53	114	90	13%	28%	22%	6%
WHISTLEDUCK	S0050	556163	7471450	201	171	36	56	42	18%	28%	21%	8%
WHISTLEDUCK	S0051	556163	7471400	296	259	45	82	63	15%	28%	21%	7%
WHISTLEDUCK	S0052	556163	7471350	241	204	44	67	50	18%	28%	21%	9%
WHISTLEDUCK	S0053	556163	7471300	324	276	57	91	68	18%	28%	21%	8%
WHISTLEDUCK	S0054	556163	7471250	344	297	57	96	73	16%	28%	21%	8%

WHISTLEDUCK	S0055	556163	7471200	508	457	65	142	110	13%	28%	22%	5%
WHISTLEDUCK	S0056	556163	7471150	265	234	38	72	55	14%	27%	21%	6%
WHISTLEDUCK	S0058	556213	7470600	225	194	37	63	48	17%	28%	21%	8%
WHISTLEDUCK	S0059	556213	7470550	201	172	35	56	42	17%	28%	21%	8%
WHISTLEDUCK	S0061	556213	7470450	230	195	42	65	48	18%	28%	21%	9%
WHISTLEDUCK	S0064	556213	7470300	205	172	39	56	42	19%	28%	20%	9%
WHISTLEDUCK	S0067	556213	7470150	213	183	36	59	45	17%	28%	21%	8%
WHISTLEDUCK	S0068	556213	7470100	223	194	35	63	47	16%	28%	21%	7%
WHISTLEDUCK	S0071	556213	7469950	200	172	33	56	42	17%	28%	21%	8%
WHISTLEDUCK	S0072	556213	7469900	220	192	34	62	47	15%	28%	22%	7%
WHISTLEDUCK	S0073	556263	7471600	238	205	39	65	49	16%	27%	21%	8%
WHISTLEDUCK	S0074	556263	7471550	217	183	40	60	45	19%	28%	21%	9%
WHISTLEDUCK	S0075	556263	7471500	208	176	38	59	44	18%	28%	21%	9%
WHISTLEDUCK	S0076	556263	7471450	222	190	38	61	45	17%	27%	20%	8%
WHISTLEDUCK	S0077	556263	7471400	327	284	52	91	69	16%	28%	21%	7%
WHISTLEDUCK	S0078	556263	7471350	310	262	56	86	64	18%	28%	21%	9%
WHISTLEDUCK	S0079	556263	7471300	334	282	62	93	68	18%	28%	20%	9%
WHISTLEDUCK	S0080	556263	7471250	374	328	56	106	80	15%	28%	21%	6%
WHISTLEDUCK	S0081	556263	7471200	314	275	48	87	66	15%	28%	21%	7%
WHISTLEDUCK	S0082	556263	7471150	261	231	37	72	55	14%	28%	21%	6%
WHISTLEDUCK	S0084	556313	7470500	207	171	42	58	42	20%	28%	20%	10%
WHISTLEDUCK	S0085	556313	7470450	203	169	40	57	42	20%	28%	21%	9%
WHISTLEDUCK	S0087	556313	7470350	200	168	37	56	42	18%	28%	21%	9%
WHISTLEDUCK	S0088	556313	7470300	242	204	44	66	49	18%	27%	20%	9%
WHISTLEDUCK	S0089	556313	7470250	233	199	40	65	49	17%	28%	21%	8%
WHISTLEDUCK	S0090	556313	7470200	220	186	41	61	45	18%	28%	21%	9%
WHISTLEDUCK	S0091	556313	7470150	211	176	41	59	43	20%	28%	20%	9%
WHISTLEDUCK	S0092	556313	7470100	210	181	35	58	44	17%	28%	21%	8%
WHISTLEDUCK	S0097	556363	7471600	208	176	37	58	43	18%	28%	21%	9%

WHISTLEDUCK	S0098	556363	7471550	232	198	41	65	48	17%	28%	21%	8%
WHISTLEDUCK	S0099	556363	7471500	221	186	40	61	45	18%	28%	21%	9%
WHISTLEDUCK	S0100	556363	7471450	270	231	46	75	56	17%	28%	21%	8%
WHISTLEDUCK	S0101	556363	7471400	339	290	58	95	71	17%	28%	21%	8%
WHISTLEDUCK	S0102	556363	7471350	266	217	56	74	53	21%	28%	20%	11%
WHISTLEDUCK	S0103	556363	7471300	235	181	62	68	46	26%	29%	20%	13%
WHISTLEDUCK	S0104	556363	7471250	276	232	52	78	57	19%	28%	21%	9%
WHISTLEDUCK	S0105	556363	7471200	248	214	41	69	53	17%	28%	21%	7%
WHISTLEDUCK	S0106	556363	7471150	276	245	39	77	59	14%	28%	21%	6%
WHISTLEDUCK	S0107	556363	7471100	229	202	33	63	48	14%	28%	21%	6%
WHISTLEDUCK	S0112	556363	7470850	205	176	34	57	44	17%	28%	21%	8%
WHISTLEDUCK	S0114	556413	7470450	221	188	40	61	45	18%	28%	21%	8%
WHISTLEDUCK	S0115	556413	7470400	209	177	38	58	43	18%	28%	21%	9%
WHISTLEDUCK	S0116	556413	7470350	206	175	37	57	42	18%	27%	21%	9%
WHISTLEDUCK	S0117	556413	7470300	215	180	41	58	44	19%	27%	20%	10%
WHISTLEDUCK	S0118	556413	7470250	231	192	45	64	47	19%	28%	20%	10%
WHISTLEDUCK	S0119	556413	7470200	251	218	40	69	53	16%	28%	21%	7%
WHISTLEDUCK	S0120	556413	7470150	250	213	44	71	52	18%	28%	21%	8%
WHISTLEDUCK	S0122	556413	7470050	202	166	41	56	41	20%	28%	20%	10%
WHISTLEDUCK	S0123	556413	7470000	201	172	35	56	42	17%	28%	21%	8%
WHISTLEDUCK	S0124	556413	7469950	200	171	35	56	42	18%	28%	21%	9%
WHISTLEDUCK	S0126	556463	7471600	202	172	36	56	42	18%	28%	21%	8%
WHISTLEDUCK	S0127	556463	7471550	223	192	38	62	47	17%	28%	21%	8%
WHISTLEDUCK	S0128	556463	7471500	201	171	36	56	41	18%	28%	21%	8%
WHISTLEDUCK	S0129	556463	7471450	258	221	44	71	54	17%	28%	21%	8%
WHISTLEDUCK	S0130	556463	7471400	254	217	45	70	52	18%	28%	21%	8%
WHISTLEDUCK	S0131	556463	7471350	278	245	41	78	59	15%	28%	21%	6%
WHISTLEDUCK	S0132	556463	7471300	256	222	41	71	54	16%	28%	21%	7%
WHISTLEDUCK	S0133	556463	7471250	227	197	36	63	48	16%	28%	21%	7%

WHISTLEDUCK	S0134	556463	7471200	201	174	32	56	42	16%	28%	21%	7%
WHISTLEDUCK	S0139	556463	7470950	201	177	30	56	43	15%	28%	21%	6%
WHISTLEDUCK	S0142	556463	7470800	211	179	38	59	44	18%	28%	21%	9%
WHISTLEDUCK	S0144	556463	7470700	205	177	33	57	43	16%	28%	21%	7%
WHISTLEDUCK	S0147	556513	7470250	223	191	38	62	47	17%	28%	21%	8%
WHISTLEDUCK	S0148	556513	7470200	205	177	34	57	43	17%	28%	21%	8%
WHISTLEDUCK	S0149	556513	7470150	206	175	37	57	43	18%	28%	21%	8%
WHISTLEDUCK	S0151	556513	7470050	214	183	37	60	45	17%	28%	21%	8%
WHISTLEDUCK	S0152	556513	7470000	202	173	35	57	42	17%	28%	21%	8%
WHISTLEDUCK	S0155	556563	7471600	228	195	40	64	48	18%	28%	21%	8%
WHISTLEDUCK	S0156	556563	7471550	214	174	46	61	44	22%	28%	20%	11%
WHISTLEDUCK	S0157	556563	7471500	222	188	40	62	46	18%	28%	21%	9%
WHISTLEDUCK	S0158	556563	7471450	216	184	39	61	45	18%	28%	21%	8%
WHISTLEDUCK	S0161	556563	7471300	283	242	49	78	59	17%	28%	21%	8%
WHISTLEDUCK	S0162	556563	7471250	250	219	38	71	54	15%	28%	22%	7%
WHISTLEDUCK	S0163	556563	7471200	220	190	36	61	46	16%	28%	21%	8%
WHISTLEDUCK	S0173	556563	7470700	201	174	32	56	43	16%	28%	21%	7%
WHISTLEDUCK	S0174	556563	7470650	204	176	33	57	43	16%	28%	21%	7%
WHISTLEDUCK	S0176	556613	7470200	208	180	33	58	44	16%	28%	21%	7%
WHISTLEDUCK	S0177	556613	7470150	209	175	40	59	43	19%	28%	21%	9%
WHISTLEDUCK	S0178	556613	7470100	214	181	39	60	45	18%	28%	21%	8%
WHISTLEDUCK	S0182	556613	7469900	213	187	31	59	46	14%	28%	21%	7%
WHISTLEDUCK	S0183	556663	7471600	253	215	45	71	53	18%	28%	21%	8%
WHISTLEDUCK	S0184	556663	7471550	222	191	37	62	47	17%	28%	21%	8%
WHISTLEDUCK	S0185	556663	7471500	219	186	39	61	45	18%	28%	21%	9%
WHISTLEDUCK	S0186	556663	7471450	237	204	40	67	50	17%	28%	21%	8%
WHISTLEDUCK	S0187	556663	7471400	212	182	36	59	45	17%	28%	21%	8%
WHISTLEDUCK	S0188	556663	7471350	218	186	38	61	45	17%	28%	21%	8%
WHISTLEDUCK	S0191	556663	7471200	209	182	33	58	44	16%	28%	21%	7%

WHISTLEDUCK	S0197	556663	7470900	209	177	39	58	43	18%	28%	20%	9%
WHISTLEDUCK	S0199	556663	7470800	217	187	37	60	45	17%	28%	21%	8%
WHISTLEDUCK	S0200	556663	7470750	243	212	38	67	51	16%	28%	21%	7%
WHISTLEDUCK	S0201	556663	7470700	213	185	34	59	45	16%	28%	21%	7%
WHISTLEDUCK	S0202	556663	7470650	204	177	32	57	43	16%	28%	21%	7%
WHISTLEDUCK	S0207	556713	7470050	200	171	34	55	42	17%	28%	21%	8%
WHISTLEDUCK	S0208	556713	7470000	201	175	31	56	43	16%	28%	22%	7%
WHISTLEDUCK	S0211	556763	7471350	234	202	39	65	49	17%	28%	21%	8%
WHISTLEDUCK	S0212	556763	7471300	238	204	40	66	50	17%	28%	21%	8%
WHISTLEDUCK	S0216	556763	7471100	214	178	42	60	44	20%	28%	21%	9%
WHISTLEDUCK	S0217	556763	7471050	200	167	39	57	42	20%	29%	21%	9%
WHISTLEDUCK	S0218	556763	7471000	222	185	43	62	45	20%	28%	20%	9%
WHISTLEDUCK	S0219	556763	7470950	242	202	47	68	50	19%	28%	21%	9%
WHISTLEDUCK	S0220	556763	7470900	261	220	48	74	54	19%	28%	21%	9%
WHISTLEDUCK	S0221	556763	7470850	251	212	46	70	52	18%	28%	21%	9%
WHISTLEDUCK	S0222	556763	7470800	329	279	59	92	68	18%	28%	21%	8%
WHISTLEDUCK	S0223	556763	7470750	270	222	56	76	55	21%	28%	20%	10%
WHISTLEDUCK	S0224	556763	7470700	221	188	40	63	46	18%	29%	21%	8%
WHISTLEDUCK	S0225	556763	7470650	207	179	34	59	44	16%	28%	21%	7%
WHISTLEDUCK	S0229	556863	7471350	279	244	44	79	60	16%	28%	21%	7%
WHISTLEDUCK	S0230	556863	7471300	229	195	41	64	48	18%	28%	21%	8%
WHISTLEDUCK	S0231	556863	7471250	228	195	39	64	48	17%	28%	21%	8%
WHISTLEDUCK	S0232	556863	7471200	207	176	37	59	44	18%	28%	21%	8%
WHISTLEDUCK	S0233	556863	7471150	221	191	37	63	47	17%	28%	21%	7%
WHISTLEDUCK	S0234	556863	7471100	210	179	37	59	44	18%	28%	21%	8%
WHISTLEDUCK	S0235	556863	7471050	208	178	36	59	44	18%	28%	21%	8%
WHISTLEDUCK	S0237	556863	7470950	209	176	40	59	43	19%	28%	21%	9%
WHISTLEDUCK	S0238	556863	7470900	211	175	42	59	43	20%	28%	20%	10%
WHISTLEDUCK	S0239	556863	7470850	225	193	39	64	48	17%	29%	21%	8%

WHISTLEDUCK	S0240	556863	7470800	263	225	46	75	56	17%	28%	21%	8%
WHISTLEDUCK	S0241	556863	7470750	237	191	52	66	47	22%	28%	20%	11%
WHISTLEDUCK	S0242	556863	7470700	218	187	37	61	46	17%	28%	21%	8%
WHISTLEDUCK	S0244	556863	7470600	212	183	35	59	44	17%	28%	21%	8%
WHISTLEDUCK	S0248	556963	7471300	227	191	43	65	48	19%	29%	21%	9%
WHISTLEDUCK	S0249	556963	7471250	215	184	38	61	45	18%	28%	21%	8%
WHISTLEDUCK	S0251	556963	7471150	203	171	37	57	42	18%	28%	21%	8%
WHISTLEDUCK	S0252	556963	7471100	206	172	39	57	42	19%	28%	21%	10%
WHISTLEDUCK	S0253	556963	7471050	207	171	42	59	43	20%	28%	21%	10%
WHISTLEDUCK	S0254	556963	7471000	221	185	42	63	46	19%	28%	21%	9%
WHISTLEDUCK	S0255	556963	7470950	227	191	43	64	47	19%	28%	21%	9%
WHISTLEDUCK	S0256	556963	7470900	207	171	42	58	42	20%	28%	20%	10%
WHISTLEDUCK	S0257	556963	7470850	223	180	50	63	45	22%	28%	20%	11%
WHISTLEDUCK	S0258	556963	7470800	208	171	43	59	42	21%	28%	20%	10%
WHISTLEDUCK	S0259	556963	7470750	230	191	46	64	47	20%	28%	20%	10%
WHISTLEDUCK	S0260	556963	7470700	213	182	37	60	45	17%	28%	21%	8%
WHISTLEDUCK	S0262	556963	7470600	210	179	37	60	44	18%	28%	21%	8%
WHISTLEDUCK	S0263	556963	7470550	207	178	35	59	44	17%	28%	21%	8%
WHISTLEDUCK	S0264	556963	7470500	214	181	39	60	44	18%	28%	21%	8%
WHISTLEDUCK	S0265	557063	7471350	215	182	39	61	45	18%	28%	21%	8%
WHISTLEDUCK	S0266	557063	7471300	227	192	42	64	47	19%	28%	21%	9%
WHISTLEDUCK	S0267	557063	7471250	216	185	37	60	45	17%	28%	21%	8%
WHISTLEDUCK	S0270	557063	7471100	220	185	41	62	45	19%	28%	21%	9%
WHISTLEDUCK	S0272	557063	7471000	222	184	45	63	46	20%	28%	21%	10%
WHISTLEDUCK	S0273	557063	7470950	217	179	44	61	44	20%	28%	20%	10%
WHISTLEDUCK	S0274	557063	7470900	232	192	47	65	47	20%	28%	20%	10%
WHISTLEDUCK	S0275	557063	7470850	239	202	43	66	50	18%	28%	21%	9%
WHISTLEDUCK	S0276	557063	7470800	232	194	45	66	48	19%	28%	21%	9%
WHISTLEDUCK	S0277	557063	7470750	233	200	39	66	49	17%	28%	21%	8%

WHISTLEDUCK	S0279	557063	7470650	219	187	37	61	46	17%	28%	21%	8%
WHISTLEDUCK	S0280	557063	7470600	217	187	36	61	46	17%	28%	21%	8%
WHISTLEDUCK	S0281	557063	7470550	201	172	35	56	42	18%	28%	21%	8%
WHISTLEDUCK	S0282	557063	7470500	202	174	34	56	42	17%	28%	21%	8%
WHISTLEDUCK	S0283	557163	7471350	220	184	42	61	45	19%	28%	21%	9%
WHISTLEDUCK	S0284	557163	7471300	204	171	38	57	42	19%	28%	21%	9%
WHISTLEDUCK	S0286	557163	7471200	211	177	40	58	44	19%	28%	21%	9%
WHISTLEDUCK	S0287	557163	7471150	201	170	37	57	42	18%	28%	21%	9%
WHISTLEDUCK	S0290	557163	7471000	216	182	40	61	45	19%	28%	21%	9%
WHISTLEDUCK	S0291	557163	7470950	215	182	39	60	45	18%	28%	21%	9%
WHISTLEDUCK	S0292	557163	7470900	257	213	52	71	53	20%	28%	20%	10%
WHISTLEDUCK	S0293	557163	7470850	247	206	48	70	51	19%	28%	21%	9%
WHISTLEDUCK	S0294	557163	7470800	230	195	42	65	48	18%	28%	21%	9%
WHISTLEDUCK	S0295	557163	7470750	221	185	42	62	45	19%	28%	21%	9%
WHISTLEDUCK	S0296	557163	7470700	217	181	41	60	44	19%	28%	20%	9%
WHISTLEDUCK	S0297	557163	7470650	210	180	37	59	44	17%	28%	21%	8%
WHISTLEDUCK	S0298	557163	7470600	230	196	41	64	48	18%	28%	21%	8%
WHISTLEDUCK	S0300	557163	7470500	204	172	38	57	42	19%	28%	21%	9%
WHISTLEDUCK	S0301	557263	7471350	212	172	46	60	43	22%	28%	20%	11%
WHISTLEDUCK	S0303	557263	7471250	212	178	40	59	44	19%	28%	21%	9%
WHISTLEDUCK	S0304	557263	7471200	209	179	36	59	44	17%	28%	21%	8%
WHISTLEDUCK	S0305	557263	7471150	208	176	39	59	43	19%	28%	21%	9%
WHISTLEDUCK	S0306	557263	7471100	218	184	41	63	45	19%	29%	21%	8%
WHISTLEDUCK	S0307	557263	7471050	212	181	36	59	45	17%	28%	21%	8%
WHISTLEDUCK	S0308	557263	7471000	219	187	38	61	46	18%	28%	21%	8%
WHISTLEDUCK	S0309	557263	7470950	236	201	41	65	49	17%	28%	21%	8%
WHISTLEDUCK	S0310	557263	7470900	243	207	43	68	51	18%	28%	21%	8%
WHISTLEDUCK	S0311	557263	7470850	319	277	50	88	68	16%	28%	21%	7%
WHISTLEDUCK	S0312	557263	7470800	227	190	43	63	46	19%	28%	20%	9%

WHISTLEDUCK	S0313	557263	7470750	205	172	39	57	42	19%	28%	20%	9%
WHISTLEDUCK	S0314	557263	7470700	210	178	37	58	44	18%	28%	21%	8%
WHISTLEDUCK	S0315	557263	7470650	206	171	41	56	41	20%	27%	20%	10%
WHISTLEDUCK	S0316	557263	7470600	208	176	38	58	43	18%	28%	21%	9%
WHISTLEDUCK	S0319	557363	7471350	217	184	40	61	45	18%	28%	21%	9%
WHISTLEDUCK	S0320	557363	7471300	209	178	37	58	43	18%	28%	21%	8%
WHISTLEDUCK	S0324	557363	7471100	228	189	45	64	47	20%	28%	21%	10%
WHISTLEDUCK	S0325	557363	7471050	253	213	48	71	52	19%	28%	21%	9%
WHISTLEDUCK	S0326	557363	7471000	246	212	41	68	51	17%	28%	21%	8%
WHISTLEDUCK	S0327	557363	7470950	323	285	47	89	68	15%	28%	21%	6%
WHISTLEDUCK	S0328	557363	7470900	247	207	46	69	51	19%	28%	21%	9%
WHISTLEDUCK	S0329	557363	7470850	264	230	42	74	56	16%	28%	21%	7%
WHISTLEDUCK	S0330	557363	7470800	238	195	49	66	48	21%	28%	20%	11%
WHISTLEDUCK	S0331	557363	7470750	297	250	56	80	59	19%	27%	20%	9%
WHISTLEDUCK	S0332	557363	7470700	255	217	45	70	52	18%	28%	20%	8%
WHISTLEDUCK	S0334	557363	7470600	208	175	39	58	43	19%	28%	21%	9%
WHISTLEDUCK	S0335	557463	7471350	220	185	41	61	45	19%	28%	21%	10%
WHISTLEDUCK	S0336	557463	7471300	220	186	40	61	45	18%	28%	21%	9%
WHISTLEDUCK	S0337	557463	7471250	212	181	37	59	44	17%	28%	21%	8%
WHISTLEDUCK	S0338	557463	7471200	207	176	37	58	43	18%	28%	21%	8%
WHISTLEDUCK	S0341	557463	7471050	214	181	39	60	45	18%	28%	21%	9%
WHISTLEDUCK	S0342	557463	7471000	226	194	38	63	47	17%	28%	21%	8%
WHISTLEDUCK	S0344	557463	7470900	201	171	36	56	42	18%	28%	21%	9%
WHISTLEDUCK	S0346	557463	7470800	230	195	42	65	48	18%	28%	21%	8%
WHISTLEDUCK	S0347	557463	7470750	255	216	46	71	52	18%	28%	21%	9%
WHISTLEDUCK	S0348	557463	7470700	275	236	46	77	57	17%	28%	21%	8%
WHISTLEDUCK	S0349	557463	7470650	240	201	46	67	49	19%	28%	21%	9%
WHISTLEDUCK	S0350	557463	7470600	207	177	36	58	43	18%	28%	21%	8%
WHISTLEDUCK	S0351	557563	7471350	205	173	38	57	42	19%	28%	20%	9%

WHISTLEDUCK	S0352	557563	7471300	216	181	41	60	44	19%	28%	21%	9%
WHISTLEDUCK	S0353	557563	7471250	200	170	36	56	41	18%	28%	21%	8%
WHISTLEDUCK	S0356	557563	7471100	215	183	39	60	45	18%	28%	21%	8%
WHISTLEDUCK	S0357	557563	7471050	277	240	44	77	58	16%	28%	21%	7%
WHISTLEDUCK	S0358	557563	7471000	221	189	38	62	46	17%	28%	21%	8%
WHISTLEDUCK	S0359	557563	7470950	229	194	42	64	48	18%	28%	21%	9%
WHISTLEDUCK	S0360	557563	7470900	219	185	40	61	45	18%	28%	21%	9%
WHISTLEDUCK	S0361	557563	7470850	211	176	40	59	43	19%	28%	21%	9%
WHISTLEDUCK	S0362	557563	7470800	226	193	40	63	47	18%	28%	21%	8%
WHISTLEDUCK	S0363	557563	7470750	219	182	42	61	45	19%	28%	20%	9%
WHISTLEDUCK	S0364	557563	7470700	216	180	41	59	44	19%	27%	20%	10%
WHISTLEDUCK	S0365	557563	7470650	207	170	42	57	42	20%	28%	20%	10%
WHISTLEDUCK	S0368	557663	7471300	218	185	39	61	45	18%	28%	21%	8%
WHISTLEDUCK	S0369	557663	7471250	216	183	40	60	45	18%	28%	21%	9%
WHISTLEDUCK	S0370	557663	7471200	218	185	39	61	46	18%	28%	21%	8%
WHISTLEDUCK	S0377	557663	7470850	204	172	38	57	42	19%	28%	21%	9%
WHISTLEDUCK	S0379	557763	7471300	203	173	37	57	42	18%	28%	21%	8%
WHISTLEDUCK	S0381	557763	7471200	204	171	39	57	42	19%	28%	21%	9%
WHISTLEDUCK	S0383	557763	7471100	203	175	33	56	43	16%	28%	21%	7%
WHISTLEDUCK	S0384	557763	7471050	212	182	36	59	45	17%	28%	21%	8%
WHISTLEDUCK	S0385	557763	7471000	203	171	39	58	42	19%	28%	21%	9%
WHISTLEDUCK	S0387	557763	7470900	201	164	42	55	41	21%	28%	20%	11%
WHISTLEDUCK	S0388	557763	7470850	205	169	42	57	42	20%	28%	20%	10%

Total Rare Earth Oxide Calculation

Total Rare Earths Oxides (TREO) is the sum of the oxides of the light rare earth elements lanthanum (La), cerium (Ce), praseodymium (Pr), neodymium (Nd), and samarium (Sm) and the heavy rare earth elements europium (Eu), gadolinium (Gd), terbium (Tb), dysprosium (Dy), holmium (Ho), erbium (Er), thulium (Tm), ytterbium (Yb), lutetium (Lu), and yttrium (Y).

- *TREO is the sum of all the rare earth oxides.*
- *HREO is the sum of the oxides of the heavy rare earth elements: Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu and Y. The HREO are less common than the LREO and are generally of higher value.*
- *LREO is the sum of the oxides of the light rare earth elements: La, Ce, Pr and Nd.*
- *MREO is a set of oxides that are referred to as the Magnetic Rare Earth Oxides. They are Nd, Pr, Dy, Tb, Gd, Ho and Sm. These are generally considered to be of higher value than the non-MREO.*
- *NdPr is neodymium and praseodymium.*
- *Note: there is no standard definition for these terms and companies may use slightly different groupings; for example some companies may put the LREO-HREO split after Sm instead of Nd.*

1. *This announcement refers to “carbonatite”, where the geological observations are not supported by assays the Company notes that these are qualitative assessments of mineralisation.*

Next steps

- Commence maiden drilling programme.
- Continue detailed geophysical data interpretation east and west of the project area to further enhance the geological interpretation.
- Continue follow up drilling and geological analysis.

Bruce Prospect Background

The Bruce rare earth prospect is located within the Central Desert Region of the Northern Territory and covers an area of approximately 17,722 ha.

MGA recently reported (see ASX announcement dated 20th July 2022) that it had identified a broad conductor along strike from the Plenty River mine which is adjacent to magnetic features interpreted to be components of the pegmatite intrusion.

Significant rare earth occurrences have been found in the Harts Range and Plenty River mica fields within the Irindina Province. Joklik (1955) and Daly and Dyson (1956) provided details of the mica mines and documented numerous minerals associated with the host pegmatites. MGA currently exploring pegmatite, breccia, vein and alteration-hosted rare earth mineralisation at Bruce.

Northern Territory Geological Survey (NTGS) completed geological study at Arunta region and identified numerous pegmatites hosting rare earth occurrences including Plenty River mica mine area. NTGS survey mapping and location of mineral occurrences (Geological Survey Record 2003-004, Rare earth element mineralisation in the eastern Arunta Region - KJ Hussey).

About MetalsGrove

MetalsGrove Mining Limited (ASX: MGA) is an Australian-based exploration and development company, focused on the exploration and development of its portfolio of high-quality lithium, rare earth, copper-gold, manganese and base metal projects in Western Australia and the Northern Territory.

MGA is committed to green metal exploration and development to meet the growing demand from the battery storage and renewable energy markets in the transition to a de-carbonised world.

Competent Person Statement – Exploration Strategy

The information in this announcement that relates to exploration strategy has been developed by Sean Sivasamy. All assay results have been compiled by Mr Sivasamy who is a member of Australasian Institute of Mining and Metallurgy. Mr Sivasamy is Managing Director and CEO of MetalsGrove Mining Limited.

Mr Sivasamy has sufficient experience which is relevant to the style of mineralisation and exploration processes as reported herein to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'.

Mr Sivasamy consents to the inclusion in this announcement of the information contained herein, in the form and context in which it appears.

Forward looking statements

This announcement may contain certain “forward looking statements” which may not have been based solely on historical facts, but rather may be based on the Company’s current expectations about future events and results. Where the Company expresses or implies an expectation or belief as to future events or results, such expectation or belief is expressed in good faith and believed to have a reasonable basis.

However, forward looking statements are subject to risks, uncertainties, assumptions, and other factors which could cause actual results to differ materially from future results expressed, projected or implied by such forward looking statements. Such risks include, but are not limited to exploration risk, mineral resource risk, metal price volatility, currency fluctuations, increased production costs and variances in ore grade or recovery rates from those assumed in mining plans, as well as political and operational risks in the countries and states in which we sell our product to, and government regulation and judicial outcomes.

For more detailed discussion of such risks and other factors, see the Company’s Prospectus, as well as the Company’s other filings. Readers should not place undue reliance on forward looking information. The Company does not undertake any obligation to release publicly any revisions to any “forward looking statement” to reflect events or circumstances after the date of this announcement, or to reflect the occurrence of unanticipated events, except as may be required under applicable securities laws.

Authorised for release by the MetalsGrove Mining Limited Board of Directors.

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JORC Code, 2012 Edition – Table 1

Section 1 Sampling Techniques and Data

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

Criteria	JORC Code Explanation	Commentary
Sampling Techniques	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Soil samples weighing approximately 250 grams were taken by hand from a depth of about 15-20cm below surface. Each sample was sieved on site using a plastic sieve to remove coarse particles and placed in plastic snap seal bags. Standard field collection procedures for soil samples were used.
Drilling Techniques	<ul style="list-style-type: none"> 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 The samples were rock chip samples, no drill samples were collected. 	<ul style="list-style-type: none"> No drilling results are included in this release.
Drill Sample Recovery	<ul style="list-style-type: none"> Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximize 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. 	<ul style="list-style-type: none"> No drilling results are included in this release.

Logging	<ul style="list-style-type: none"> • 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. • The total length and percentage of the relevant intersections logged. 	<ul style="list-style-type: none"> • No drilling results are included in this release.
Sub-sampling Techniques and Sample Preparation	<ul style="list-style-type: none"> • 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 maximize 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. 	<ul style="list-style-type: none"> • The entire sample received by the laboratory was crushed and pulverised to 85% passing 75 micron. • No field duplicates were taken as this is not warranted at the current stage of exploration. • The sample size and distribution of the soil samples is appropriate for the current stage of exploration.
Quality of Assay Data and Laboratory Tests	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Samples were prepared by Intertek Genalysis in Alice Springs and analysed by Intertek Genalysis in Perth. The sample analysis uses a Four Acid 48 element package 4A/MS48 and rare earth element 4A/MS48R finish. • Elements assayed included: Ag, Al, As, Au, Ba, Be, Bi, Ca, Cd, Ce, Co, Cr, Cs, Cu, Dy, Er, Eu, Fe, Ga, Gd, Ge, Hf, Ho, In, K, La, Li, Lu, Mg, Mn, Mo, Na, Nb, Nd, Ni, P, Pb, Pr, Rb, Re, S, Sb, Sc,

	<ul style="list-style-type: none"> 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. 	<p>Se, Sm, Sn, Sr, Ta, Tb, Te, Th, Ti, Tl, Tm, U, V, W, Y, Yb, Zn, Zr.</p> <ul style="list-style-type: none"> The analytical techniques and quality control protocols used are considered appropriate for the data to be used.
Verification of Sampling and Assaying	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Independent checks or field duplicates were not conducted for soil sample and are not considered necessary for that type of sample. Primary assay data has been entered into the Company's digital database. There are no adjustments to the assay data.
Location of Data Points	<ul style="list-style-type: none"> Accuracy and quality of surveys used to locate drillholes (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. 	<ul style="list-style-type: none"> A handheld GPS was used to locate the data positions, with an expected +/-5m vertical and horizontal accuracy. The grid system used for all sample locations is the UTM Geocentric Datum of Australia 1994 (MGA94 Zone 53). GPS measurements of sample positions are sufficiently accurate for first pass geochemical sampling.
Data Spacing and Distribution	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> No drilling results are included in this release.
Orientation of data in relation to geological structure	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> The orientation of the soil sampling lines has not been considered to have introduced sampling bias.

	orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.	
Sample security	<ul style="list-style-type: none"> The measures taken to ensure sample security. 	<ul style="list-style-type: none"> Samples are collected from outcrop mineralisation in calico bags individual sample numbers and delivered directly from site to the assay laboratory in Alice Springs.
Audits or Reviews	<ul style="list-style-type: none"> The results of any audits or reviews of sampling techniques and data. 	<ul style="list-style-type: none"> No audit or review has been completed by an external party and is not warranted at the current stage of exploration.

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	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> The soil samples were collected from tenement EL31225. There are no third-party arrangements or royalties etc. to impede exploration on the tenure. There are no reserves or national parks to impede exploration on the tenure. Ownership – 100% MetalsGrove Mining Ltd.
Exploration Done by Other Parties.	<ul style="list-style-type: none"> Acknowledgment and appraisal of exploration by other parties. 	<ul style="list-style-type: none"> All historical work referenced in this report has been undertaken by previous project explorers. Whilst it could be expected that work and reporting practices were of an adequate standard, this cannot be confirmed.
Geology	<ul style="list-style-type: none"> Deposit type, geological setting and style of mineralization. 	<ul style="list-style-type: none"> The Bruce project tenement covers Lower Proterozoic rocks along, and flanking, the Delny-Mt. Sainthill Fault Zone, a feature developed within a wide west-northwest trending tectonic zone. Most of the project tenement is overlaid by Quaternary alluvium

and soils. The project tenement is host to the historical Plenty River Mica Mining Area. Near the centre of the tenement lies the historical Bruce Au-Cu occurrence. The prospect is associated with quartz veins, where east-trending quartz veins contain Cu and also locally contain Au (up to 53 ppm Au; Wygralak and Mernagh 2005). The pegmatite outcrop hosting number of silicious and micaceous occurrences on the potential for LCT and REE bearing.

Drillhole Information	<ul style="list-style-type: none"> • A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drillholes: • easting and northing of the drillhole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drillhole collar dip and azimuth of the hole • down hole length and interception depth hole length. 	<ul style="list-style-type: none"> • No drilling results are included in this release.
Data Aggregation Methods	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • No data aggregation methods were applied to the soil sampling data.

Relationship Between Mineralisation Widths and Intercept Lengths	<ul style="list-style-type: none"> If the geometry of the mineralisation with respect to the drillhole angle is known, its nature should be reported. 	<ul style="list-style-type: none"> Not applicable.
Diagrams	<ul style="list-style-type: none"> 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 drillhole collar locations and appropriate sectional views. 	<ul style="list-style-type: none"> See maps in the body of the report.
Balanced Reporting	<ul style="list-style-type: none"> Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced avoiding misleading reporting of Exploration Results. 	<ul style="list-style-type: none"> The reporting of these soil sample results is considered to be representative.
Other Substantive Exploration Data	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> All meaningful data and relevant information have been included in the body of the report.
Further Work	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> On-going exploration in the area is a high priority for the Company. RC Drilling will be planned. The images included show the location of the current areas of interest.