



30 October 2013

1Mt HEAVY MINERAL RESOURCE ADDED TO ENEABBA PROJECT

KEY POINTS

- **Maiden Mineral Resource for Drummond Crossing of 52.2 million tonnes (Mt) @ 2.1% heavy mineral (HM), containing 1.07Mt HM (Indicated and Inferred)**
- **High value mineral assemblage of 14% Zircon and 10% Rutile**
- **Eneabba Project resource base now contains 6.76Mt of heavy mineral**
- **Four new surface HM drill targets generated from regional exploration programme**

Mineral sands explorer Sheffield Resources ("Sheffield") (ASX:SFX) has added significantly to the high-value zircon and rutile components of its Eneabba HMS Project resource base with the announcement today of a maiden Mineral Resource for its Drummond Crossing prospect, located 20km north of Eneabba in Western Australia's Mid-West region (Figure 1).

Drummond Crossing is one of six deposits identified within the Eneabba Project, five of which are included in the Project's resource inventory (West Mine North, Ellengail, Yandanooka, Durack and now Drummond Crossing).

The Drummond Crossing resource adds 150,000t of zircon, 107,000t of rutile, 570,000t of ilmenite and 38,000t of leucoxene to Sheffield's Eneabba Project resource inventory which now stands at 6.8Mt of contained HM, of which 5.8Mt is valuable heavy mineral (VHM) (Tables 1 & 4).

Managing Director, Bruce McQuitty said Drummond Crossing is an important addition to near-surface HM resources in the Eneabba region – a proven mining district.

"Dunal mineral sands deposits such as Drummond Crossing are attractive targets because they have high-value mineral assemblages, minimal overburden and are cost-effective to drill."

"Drummond Crossing is the fifth resource of over 1 million tonnes of contained heavy mineral we have added to our Eneabba Project and is a further example of the near-surface high-value zircon and rutile-rich heavy mineral sand deposits we are targeting."

"Importantly, we have identified four new targets of this style of mineralisation, representing an outstanding opportunity to further grow our Eneabba project."

"While the Dampier Mineral Sands project remains Sheffield's principal focus, we will continue to pursue low cost opportunities like this to build a strategic resource base in a proven mining district."

Table 1: Sheffield Resources' Eneabba Project contained Valuable HM (VHM) Resource inventory

Resource Category	Zircon (kt)*	Rutile (kt)*	Leucoxene (kt)*	Ilmenite (kt)*	Total VHM (kt)*
Measured	31	35	45	287	398
Indicated	598	298	217	3,190	4,303
Inferred	128	101	36	829	1,094
All	757	434	298	4,306	5,795

*Tonnes have been rounded to reflect the relative uncertainty of the estimates.

¹ The data summarised in this Table is sourced from Table 5, below.

Table 2: Drummond Crossing prospect Mineral Resource (1.1% HM cut-off)¹

Resource Category	Mineral Resources					In-situ HM (Mt)*	Mineral Assemblage ²			
	Material (Mt)*	Bulk Density	HM %	Slimes % ³	Osize %		Zircon %	Rutile %	Leuc. %	Ilmenite %
Indicated	48.7	2.0	2.1	16	9	1.02	14	10	3.6	53
Inferred	3.5	2.0	1.5	16	8	0.05	13	10	2.8	55
Total	52.2	2.0	2.1	16	9	1.07	14	10	3.5	53

*Tonnes have been rounded to reflect the relative uncertainty of the estimate.

¹ This estimate is classified and reported in a manner compliant with the JORC code and guidelines (JORC, 2004).

² The Mineral Assemblage is represented as the percentage of the Heavy Mineral (HM) component of the deposit, as determined by QEMSCAN. TiO₂ minerals defined according to the following ranges: Rutile >95% TiO₂; Leucocoxene 85-95% TiO₂; Ilmenite <55-85% TiO₂.

³ Reported below a 35% slimes upper cut-off.

Table 3: Drummond Crossing Valuable HM (VHM) Resource inventory (1.1% HM cut-off)¹

Resource Category	Zircon (kt)*	Rutile (kt)*	Leucocoxene (kt)*	Ilmenite (kt)*	Total VHM (kt)*
Indicated	143	101	37	542	823
Inferred	7	5.0	1	28	41
All	150	107	38	570	864

*Tonnes have been rounded to reflect the relative uncertainty of the estimate.

¹ The data summarised in this Table is sourced from Table 2, above.

About Drummond Crossing

Drummond Crossing is one of six HMS deposits which comprise Sheffield's Eneabba HMS Project. It is situated on cleared freehold farmland 5km from the Brand Highway, 20km north of Eneabba (Figure 1) and 120km by road from Geraldton Port.

Drummond Crossing is a dunal style HMS deposit occurring at surface on the Gingin escarpment, immediately east of the Eneabba palaeo-shoreline position. The resource is 4km long and up to 2.3km wide. Mineralisation extends from surface to depths of up to 30m, with an average thickness of 8m (Figure 2).

Drummond Crossing has an excellent mineral assemblage dominated by zircon (14%) and chloride ilmenite (53%), with a significant component of rutile (10%). Visual inspection of the heavy mineral concentrates show a majority of clean grains expected to respond well to conventional mineral processing techniques.

The Gingin Escarpment on which Drummond Crossing is situated is highly prospective for dunal-style HMS deposits and is underexplored to the north of Eneabba. Sheffield holds tenements over 50km strike of the Gingin Escarpment on which it has outlined four new exploration targets (see below).

Surface Sampling Identifies Four New Dunal-Style HMS Targets

A regional surface sampling programme designed to identify additional shallow to outcropping dunal HMS mineralisation was undertaken during July 2013 (Figure 1 & Table 6). In total 676 surface samples were collected. The sampling specifically targeted a number of interpreted heavy mineral trap sites located to the east of the Gingin Scarp and adjacent to westerly trending paleodrainages. The sampling focused on areas of similar elevations to existing dunal deposits in the region, including Drummond Crossing, and Iluka Resources Ltd's (ASX:ILU) recently mined Twin Hills and Depot Hill East deposits. The surface sampling programme was successful in delineating four new exploration targets.

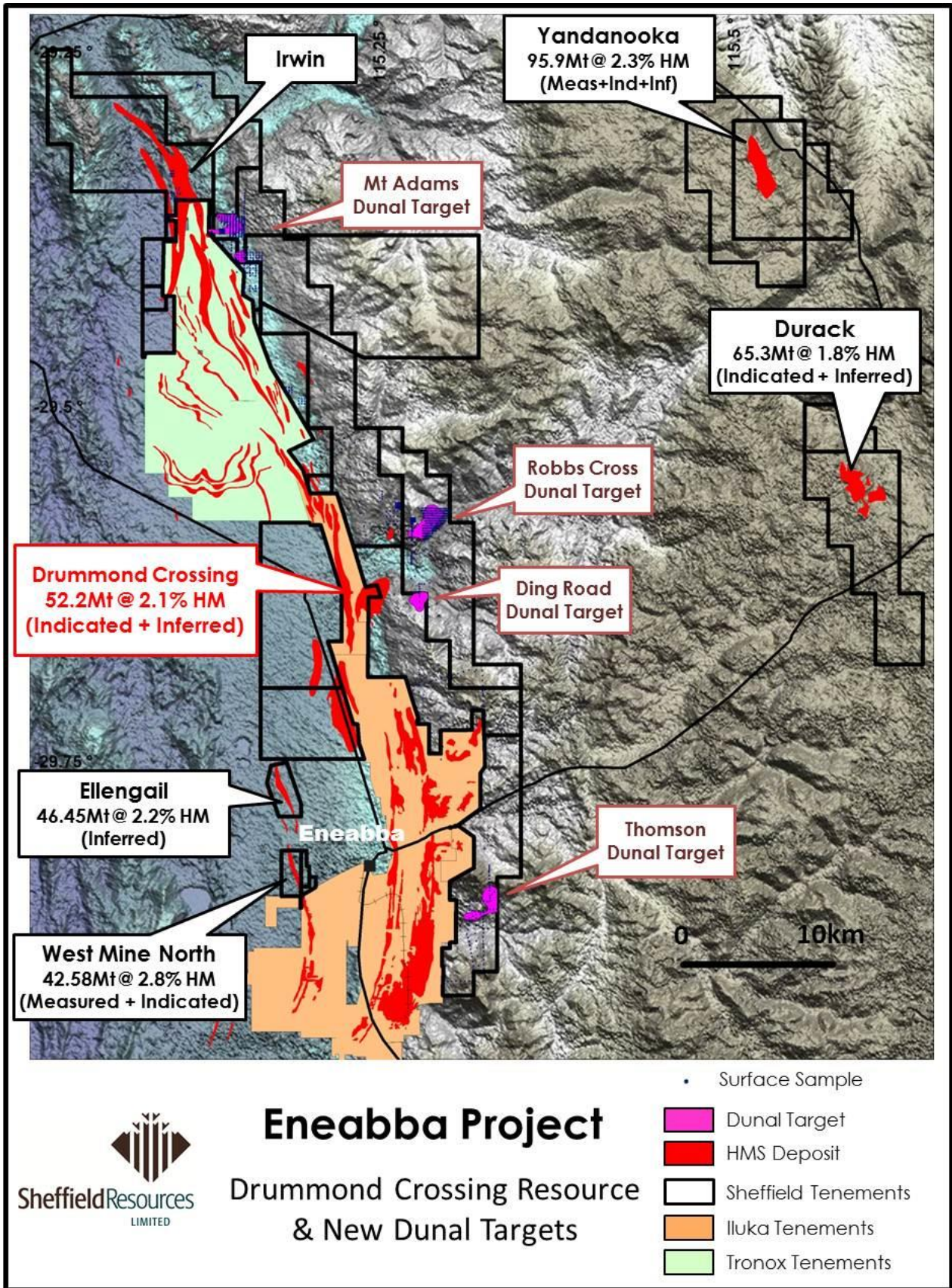


Figure 1: Location of Drummond Crossing resource, and new dunal exploration targets within the Eneabba Project

At each site, surface samples were collected from depths of between 20cm and 60cm. Due to the limited sample depth, results are not expected to indicate the potential grade of mineralisation but are intended to outline anomalous regions to target follow-up aircore drilling. The -2mm sieved fraction of each sample was submitted for analysis. Full results of the heavy liquid separation (using TBE; screen sizes: slimes -53µm, oversize +1mm) are listed in Table 6.

Sheffield has targeted dunal style mineralisation in the Eneabba region because of the favourable deposit geometries (including minimal overburden) and because of the characteristic high value mineral assemblage.

Mt Adams

Mt Adams is located approximately 6km to the southeast of Sheffield's Irwin prospect and immediately east and adjacent to Tronox Limited's (NYSE: TROX) Dongara heavy mineral sands deposit. Sheffield's sampling has identified two zones of coherent mineralisation using a 0.7% HM cut-off with a maximum result of 2.05% HM. The larger northern zone has the approximate dimensions of 1.6km by 1.2km and the smaller southern zone has the dimensions of 0.8km by 0.6km.

Robbs Cross

Robbs Cross is located approximately 5km to the northeast of Sheffield's Drummond Crossing deposit. The sampling has identified a large zone of coherent mineralisation using a 0.7% HM cut-off with a maximum result of 2.0% HM. The zone has the approximate dimensions of 2.5km by 1.0km with some areas obscured by barren wind-blown sand.

Ding Road

Ding Road is located just 1.8km to the east of Sheffield's Drummond Crossing deposit. Prior scout sampling by Sheffield has returned values of up to 1.67% HM. This was confirmed by the current sampling which returned a maximum value of 2.9% HM. One line of sampling has defined an anomalous zone with a strike length of approximately 1.2km. Further sampling is planned to determine the potential width of the mineralisation and its relationship to the nearby Drummond Crossing deposit.

Thomsons

Thomsons is located 12km east of Sheffield's West Mine North deposit and 2.6km from Iluka Resources Ltd's (ASX:ILU) IPL North deposit. Sheffield's sampling has identified a large zone of coherent mineralisation using a 0.7% HM cut-off with a maximum result of 4.8% HM. The zone has a crescent shape with approximate dimensions of 3.7km in length and between 0.25km and 1.0km in width.

The next phase of work will include mineral assemblage determinations on the heavy mineral concentrate from the surface samples. Further follow-up surface sampling is planned for Q1 2014.

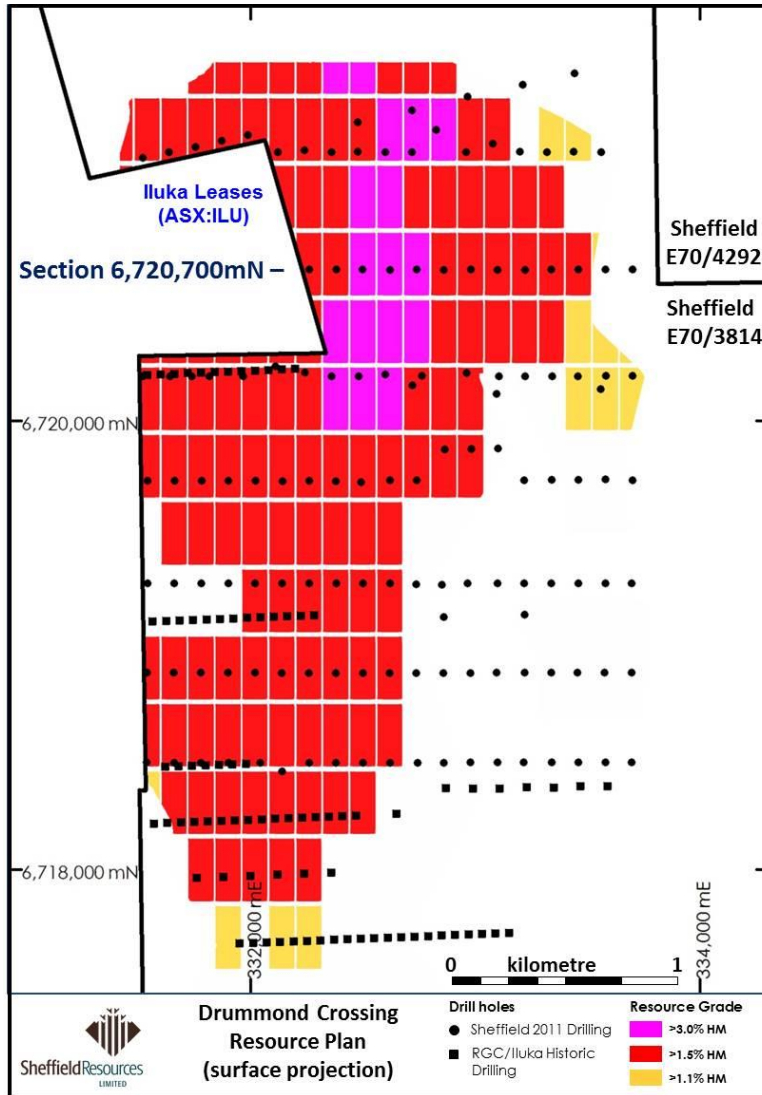


Figure 2: Drummond Crossing resource plan

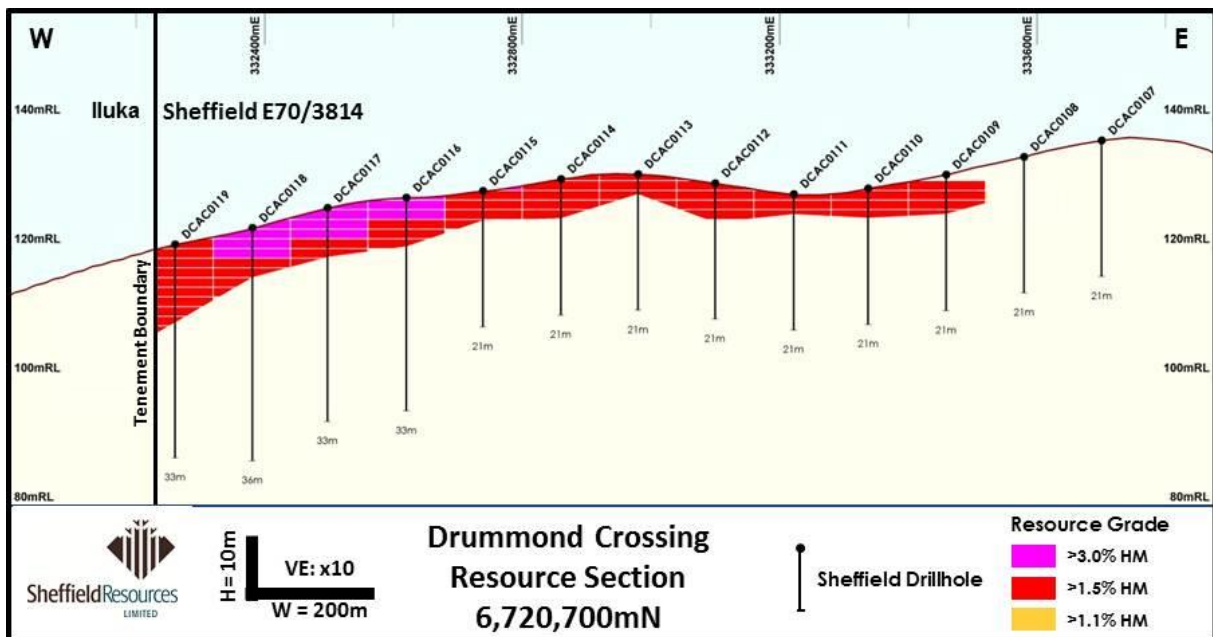


Figure 3: Drummond Crossing resource section 6,720,700mN, looking north

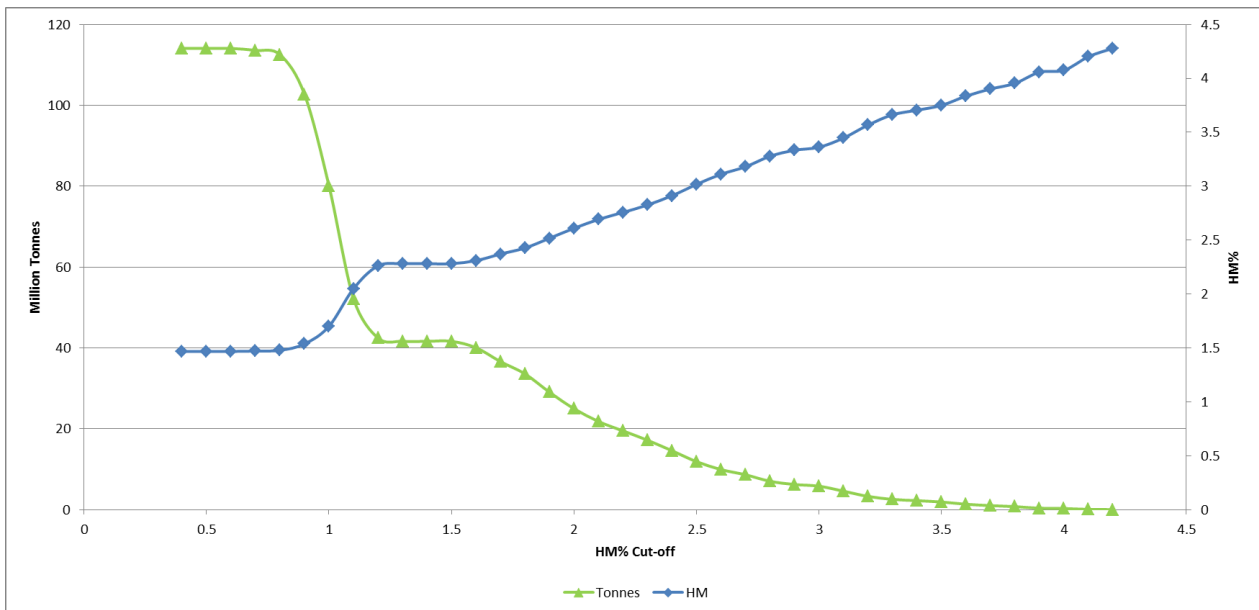


Figure 4: Drummond Crossing resource grade-tonnage curves, combined Indicated and Inferred categories

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COMPETENT PERSONS' STATEMENT

¹The information in this announcement that relates to resource estimation is based on information compiled by Mr Trent Strickland. Mr Strickland is a full time employee of QG Pty Ltd and a Member of the Australasian Institute of Mining and Metallurgy (AusIMM). Mr Strickland has sufficient experience in the minerals industry to satisfy the requirements to act as the competent person for this estimate as defined in the 2004 Edition of the Australasian Code for Reporting of Mineral Resources and Ore Reserves. Mr Strickland consents to the inclusion in this report of the Drummond Crossing Mineral Sands resource estimate.

²The information in this announcement that relates to reporting of resource and exploration results is based on information compiled under the guidance of Mark Teakle. Mr Teakle is a full time employee of the Company. Mr Teakle is a Member of the Australasian Institute of Geoscientists and the Australasian Institute of Mining and Metallurgy and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and the activity to which they are undertaking to qualify as Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves ("JORC Code")'. Mr Teakle consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.

FORWARD LOOKING AND EXPLORATION TARGET STATEMENTS

Some statements in this announcement regarding estimates or future events are forward-looking statements. They involve risk and uncertainties that could cause actual results to differ from estimated results. Forward-looking statements include, but are not limited to, statements concerning the Company's exploration programme, outlook, target sizes and mineralised material estimates. They include statements preceded by words such as "expected", "planned", "target", "scheduled", "intends", "potential", "prospective", "strategy" and similar expressions. The terms "Target" and "Exploration Target", where used in this report, should not be misunderstood or misconstrued as an estimate of Mineral Resources and Reserves as defined by the JORC Code (2004), and therefore the terms have not been used in this context. Exploration Targets are conceptual in nature and it is uncertain if further exploration or feasibility study will result in the determination of a Mineral Resource or Reserve.

Mineral Resource Inventory Tables

Table 4: Eneabba Project Mineral Resource¹ inventory

Deposit	Resource Category	Cutoff HM%	Material Million Tonnes*	Bulk Density	HM %	Slimes % ³	Osize %	In-situ HM Million Tonnes*	Zircon %	Rutile %	Leucoxene %	Ilmenite %
Yandanooka	Measured	0.9	2.9	2.0	4.1	15	14	0.121	10.6	1.9	2.2	72
Yandanooka	Indicated	0.9	90.1	2.0	2.3	16	15	2.091	11.5	3.9	3.9	69
Yandanooka	Inferred	0.9	2.8	2.0	1.2	18	21	0.033	11.2	3.9	4.6	68
Yandanooka	Total	0.9	95.9	2.0	2.3	16	15	2.245	11.4	3.8	3.9	69
West Mine North	Measured	0.9	6.47	2.0	5.6	14.8	1.2	0.36	4.9	9.1	11.6	54.9
West Mine North	Indicated	0.9	36.11	1.9	2.3	13.1	2.8	0.84	8.4	10.3	5.4	60.0
West Mine North	Total	0.9	42.58	1.9	2.8	13.4	2.5	1.21	7.9	10.1	6.4	59.2
Durack	Indicated	0.9	50.3	2.0	2.0	15	21	1.02	14	2.8	5.1	69
Durack	Inferred	0.9	15.0	1.9	1.2	14	17	0.18	14	2.5	7.2	66
Durack	Total	0.9	65.3	2.0	1.8	15	20	1.20	14	2.8	5.6	68
Drummond Crossing	Indicated	1.1	48.7	2.0	2.1	16	9	1.02	14	10	3.6	53
Drummond Crossing	Inferred	1.1	3.5	2.0	1.5	16	8	0.05	13	10	2.8	55
Drummond Crossing	Total	1.1	52.2	2.0	2.1	16	9	1.07	14	10	3.5	53
Ellengail	Inferred	0.9	46.45	2.0	2.2	15.6	2.1	1.04	8.9	8.7	1.9	63.5
Ellengail	Total	0.9	46.45	2.0	2.2	15.6	2.1	1.04	8.9	8.7	1.9	63.5
Total	Measured	var.	9.4	2.0	5.2	15	5	0.48	6.7	6.8	8.7	60
Total	Indicated	var.	225.3	2.0	2.2	15	13	4.98	12.1	6.0	4.4	64
Total	Inferred	var.	67.7	2.0	1.9	15	6	1.30	10.3	7.2	3.2	64
Total	All	var.	302	2.0	2.2	15	11	6.76	11.6	6.3	4.2	64

*Tonnes have been rounded to reflect the relative uncertainty of the estimate.

¹ This estimate is classified and reported in a manner compliant with the JORC code and guidelines (JORC, 2004). Further details on the Mineral Resource at each deposit can be found on the ASX Announcements page of the Company's website.

² The Mineral Assemblage is represented as the percentage of the Heavy Mineral (HM) component of the deposit, as determined by QEMSCAN. TiO₂ minerals defined according to the following ranges: Rutile >95% TiO₂; Leucoxene 85-95% TiO₂; Ilmenite <55-85% TiO₂.

³ West Mine North, Durack and Drummond Crossing are reported below a 35% Slimes upper cut-off.

Table 5: Eneabba Project contained Valuable HM (VHM) inventory¹

Deposit	Resource Category	Zircon (kt)*	Rutile (kt)*	Leuc. (kt)*	Ilmenite (kt)*	Total VHM (kt)*
Yandanooka	Measured	13	2	3	87	105
Yandanooka	Indicated	240	81	83	1,439	1,843
Yandanooka	Inferred	4	1	2	23	29
Yandanooka	Total	256	85	87	1,549	1,977
West Mine North	Measured	18	33	42	200	293
West Mine North	Indicated	71	87	46	506	709
West Mine North	Total	89	120	88	706	1,002
Durack	Indicated	144	29	52	703	928
Durack	Inferred	26	5	13	121	164
Durack	Total	170	33	65	824	1,092
Drummond Crossing	Indicated	143	101	37	542	823
Drummond Crossing	Inferred	7	5	1	28	41
Drummond Crossing	Total	150	107	38	570	864
Ellengail	Inferred	92	90	19	658	859
Ellengail	Total	92	90	19	658	859
Total	Measured	31	35	45	287	398
Total	Indicated	598	298	217	3,190	4,303
Total	Inferred	128	101	36	829	1,094
Total	All	757	434	298	4,306	5,795

*kt' (kilotonnes) have been rounded to reflect the relative uncertainty of the estimate.

¹ The data summarised in this Table is sourced from Table 4, above.

Table 6 Results of surface sample heavy liquid separation (HLS) are tabulated below. HLS using TBE, screen sizes: slimes -53µm, oversize +1mm. Handheld GPS locations (+/-15m), coordinate system is MGA Zone 51 (GDA94).

Sample ID	East	North	HM %	Slimes %	OS %
SS11001	319094	6760338	0.36	4.71	1.39
SS11002	319230	6760221	0.37	5.40	2.24
SS11003	319351	6760114	0.25	6.51	1.51
SS11004	319463	6760018	0.22	7.18	2.64
SS11005	317450	6753375	0.33	2.93	1.00
SS11006	317650	6753375	0.41	3.61	1.94
SS11007	317550	6753375	0.39	4.18	2.42
SS11008	317550	6753175	0.45	3.97	1.46
SS11009	317650	6753175	0.50	4.74	2.00
SS11010	317450	6753175	0.39	3.64	1.54
SS11012	317550	6752975	0.47	4.10	1.04
SS11013	317650	6752975	0.35	3.73	1.31
SS11014	317450	6752975	0.42	3.41	1.81
SS11016	317825	6752050	0.50	3.54	1.54
SS11017	318025	6752050	0.36	2.82	1.45
SS11018	317325	6751650	0.51	2.74	0.59
SS11019	317525	6751650	0.46	3.40	1.79
SS11020	317725	6751650	0.29	3.09	0.56
SS11021	317925	6751650	0.41	2.76	0.90
SS11022	318125	6751650	0.76	5.10	3.74
SS11023	317525	6751250	0.70	3.64	0.66
SS11024	317725	6751250	0.79	3.35	0.70
SS11025	317925	6751250	0.35	2.71	1.11
SS11026	318125	6751250	0.31	2.84	1.10
SS11027	318325	6751250	0.52	3.33	2.10
SS11028	318525	6751250	0.45	5.19	3.69
SS11029	317725	6751050	0.47	2.90	0.60
SS11030	317825	6751050	0.46	2.33	0.54
SS11031	317850	6749920	0.52	2.30	0.60
SS11032	317250	6749920	1.13	2.15	1.55
SS11033	317450	6749920	0.25	24.12	9.12
SS11034	317650	6749920	0.48	2.50	0.93
SS11035	317250	6749720	0.57	2.30	0.70
SS11036	317250	6749470	0.14	43.71	3.28
SS11037	317450	6749470	0.48	10.13	2.67
SS11038	317650	6749470	0.59	11.69	2.23
SS11039	317850	6749470	0.40	18.06	0.99
SS11040	322550	6751725	0.13	6.60	4.08
SS11041	322550	6751525	0.16	4.95	4.39
SS11042	322550	6751325	0.12	3.46	3.50
SS11043	322550	6751125	0.19	4.59	15.42
SS11044	322550	6750925	0.19	4.92	7.39
SS11045	322550	6750725	0.24	4.57	6.71
SS11046	322550	6750525	0.26	6.97	3.63
SS11047	322550	6750325	0.34	7.24	6.38

Sample ID	East	North	HM %	Slimes %	OS %
SS11048	322550	6750125	0.24	5.33	9.25
SS11049	320800	6749925	0.73	4.94	1.75
SS11050	321000	6749925	1.06	6.80	6.81
SS11051	321200	6749925	0.67	5.00	2.18
SS11052	321400	6749925	0.83	3.85	0.44
SS11053	321600	6749925	1.21	3.73	0.25
SS11054	321800	6749925	0.47	3.09	0.60
SS11055	322000	6749925	0.92	6.27	4.05
SS11056	322200	6749925	0.54	19.75	7.69
SS11057	322400	6749925	0.31	5.72	2.68
SS11058	322550	6749925	0.25	7.05	3.61
SS11059	320800	6749825	1.35	3.83	1.29
SS11060	321000	6749825	1.09	4.95	8.11
SS11061	321200	6749825	0.95	4.88	4.51
SS11062	321400	6749825	0.91	4.99	0.82
SS11063	321600	6749825	0.83	3.66	0.91
SS11064	321800	6749825	1.44	5.97	1.34
SS11065	322000	6749825	0.69	6.52	4.36
SS11067	322400	6749825	0.33	6.62	3.40
SS11068	322550	6749825	0.26	6.18	4.00
SS11069	321000	6749725	1.25	4.77	7.23
SS11070	321200	6749725	1.33	5.27	13.23
SS11071	321400	6749725	1.29	5.72	3.68
SS11072	321600	6749725	1.65	5.54	1.42
SS11073	321800	6749725	2.05	5.85	5.59
SS11074	322000	6749725	0.73	5.22	9.88
SS11075	322200	6749725	0.36	5.97	8.93
SS11076	322400	6749725	0.24	6.13	5.09
SS11077	322550	6749725	0.21	5.47	7.67
SS11078	321000	6749625	1.29	4.34	6.06
SS11079	321200	6749625	1.32	3.80	2.53
SS11080	321400	6749625	1.39	4.39	3.12
SS11081	321600	6749625	1.47	5.14	8.24
SS11082	321800	6749625	1.54	9.17	3.56
SS11084	322200	6749625	0.48	5.75	10.55
SS11085	322400	6749625	0.33	5.98	6.20
SS11086	322550	6749625	0.16	3.34	3.85
SS11087	321000	6749525	0.77	4.49	5.15
SS11088	321200	6749525	0.68	5.05	1.50
SS11089	321400	6749525	0.90	3.23	0.62
SS11090	321600	6749525	1.15	5.66	13.65
SS11092	322000	6749525	0.78	8.81	9.73
SS11093	322200	6749525	0.61	5.36	12.35
SS11094	322400	6749525	0.26	5.86	9.79
SS11095	322550	6749525	0.53	6.63	7.54

Sample ID	East	North	HM %	Slimes %	OS %
SS11096	321000	6749425	0.46	4.01	1.15
SS11097	321200	6749425	0.39	3.76	0.35
SS11098	321400	6749425	0.57	3.68	1.76
SS11099	321600	6749425	0.92	5.16	4.27
SS11100	321800	6749425	0.91	5.28	4.97
SS11101	322000	6749425	0.62	4.78	14.99
SS11102	322200	6749425	0.92	5.57	11.94
SS11103	322400	6749425	0.63	9.06	6.21
SS11104	322550	6749425	0.51	5.84	4.41
SS11105	321200	6749325	0.42	4.19	0.46
SS11106	321400	6749325	0.62	3.69	1.09
SS11107	321600	6749325	0.82	4.60	3.89
SS11108	321800	6749325	0.68	4.92	5.66
SS11109	322000	6749325	0.89	4.41	1.95
SS11110	322200	6749325	1.08	7.77	11.38
SS11111	322400	6749325	0.63	6.81	5.79
SS11112	322550	6749325	0.56	6.76	5.23
SS11113	321200	6749225	0.47	3.53	0.39
SS11114	321400	6749225	0.44	2.90	0.55
SS11115	321600	6749225	0.90	5.14	4.24
SS11116	321800	6749225	0.58	3.64	1.22
SS11117	322000	6749225	0.86	3.78	1.07
SS11118	322200	6749225	0.50	4.91	11.43
SS11119	322400	6749225	0.68	4.89	11.17
SS11120	322550	6749225	0.66	7.22	6.56
SS11121	321400	6749125	0.86	3.52	0.28
SS11122	321600	6749125	1.09	2.98	0.81
SS11123	321800	6749125	0.67	4.21	0.42
SS11124	322000	6749125	0.73	4.16	0.72
SS11125	322200	6749125	1.45	5.68	6.63
SS11126	322400	6749125	0.76	5.64	8.72
SS11127	322550	6749125	0.61	5.48	8.21
SS11128	321400	6749025	1.40	3.08	0.29
SS11129	321600	6749025	1.09	2.33	0.22
SS11130	321800	6749025	0.51	2.60	0.52
SS11131	322000	6749025	0.88	4.60	5.15
SS11132	322200	6749025	1.25	6.04	6.23
SS11133	322400	6749025	0.87	6.26	11.64
SS11134	322550	6749025	0.56	5.46	5.63
SS11135	321600	6748925	0.84	3.69	0.45
SS11136	321800	6748925	0.63	3.91	2.12
SS11137	322000	6748925	0.99	5.17	6.16
SS11138	322200	6748925	1.24	6.75	5.40
SS11139	322400	6748925	0.84	4.25	15.62
SS11140	322550	6748925	0.88	3.66	2.85

Sample ID	East	North	HM %	Slimes %	OS %
SS11141	321600	6748825	1.03	4.25	3.10
SS11142	321800	6748825	1.16	5.53	8.04
SS11143	322000	6748825	1.09	8.54	7.66
SS11144	322200	6748825	1.01	4.19	4.41
SS11145	322400	6748825	0.36	2.76	5.72
SS11146	322550	6748825	0.75	3.99	8.88
SS11147	321600	6748725	0.80	4.05	4.99
SS11148	321800	6748725	1.05	5.04	7.21
SS11149	322000	6748725	0.77	5.88	6.70
SS11150	322200	6748725	0.85	6.00	8.47
SS11151	322400	6748725	0.63	5.08	5.87
SS11152	322550	6748725	0.45	5.37	5.11
SS11153	321600	6748625	0.44	3.25	4.73
SS11154	321800	6748625	1.14	5.51	7.86
SS11155	322000	6748625	0.79	5.46	6.58
SS11156	322200	6748625	0.39	5.56	5.90
SS11157	322400	6748625	0.36	5.54	4.54
SS11158	322550	6748625	0.35	5.59	5.30
SS11159	321600	6748525	0.75	3.85	4.55
SS11160	321800	6748525	0.79	5.45	7.20
SS11161	322000	6748525	0.57	5.55	6.19
SS11162	322200	6748525	0.49	4.37	5.53
SS11163	322400	6748525	0.53	6.13	3.14
SS11164	322550	6748525	0.44	4.90	5.27
SS11165	321600	6748425	0.56	4.53	3.65
SS11166	321800	6748425	0.80	4.22	4.94
SS11167	322000	6748425	0.60	4.92	7.50
SS11168	322200	6748425	0.30	5.20	4.68
SS11169	322400	6748425	0.45	6.00	2.93
SS11170	322550	6748425	0.41	5.27	3.53
SS11171	321600	6748325	0.54	3.41	4.80
SS11172	321800	6748325	0.76	4.78	7.50
SS11173	322000	6748325	0.41	5.62	4.96
SS11174	322200	6748325	0.39	4.61	4.21
SS11175	322400	6748325	0.33	5.00	3.79
SS11176	322550	6748325	0.37	4.86	2.09
SS11177	320900	6748900	0.33	3.11	0.61
SS11178	321000	6748900	0.51	3.55	0.18
SS11179	321100	6748900	0.84	3.66	0.36
SS11180	321200	6748900	0.59	3.78	0.39
SS11181	320900	6748850	0.48	3.85	0.29
SS11182	321000	6748850	0.63	3.16	0.29
SS11183	321100	6748850	1.02	2.91	0.67
SS11184	321200	6748850	0.53	3.18	0.40
SS11185	320900	6748800	0.76	4.17	0.24

Sample ID	East	North	HM %	Slimes %	OS %
SS11186	321000	6748800	1.09	2.97	0.43
SS11187	321100	6748800	0.91	2.80	0.07
SS11188	321200	6748800	0.44	3.03	0.45
SS11189	320900	6748750	0.93	4.54	0.57
SS11190	321000	6748750	1.09	2.76	0.91
SS11191	321100	6748750	0.78	3.84	0.22
SS11192	321200	6748750	0.56	4.45	0.26
SS11193	320900	6748700	0.85	4.28	1.81
SS11194	321000	6748700	0.96	3.51	0.38
SS11195	321100	6748700	1.02	3.79	0.46
SS11196	321200	6748700	0.56	3.17	0.80
SS11197	320900	6748650	0.63	3.15	1.79
SS11198	321000	6748650	0.78	3.36	0.43
SS11199	321100	6748650	0.52	2.00	0.70
SS11200	321200	6748650	0.64	2.92	1.75
SS11201	320900	6748600	0.69	3.54	3.52
SS11202	321000	6748600	0.92	3.43	0.90
SS11203	321100	6748600	0.65	2.87	1.22
SS11204	321200	6748600	0.70	2.94	2.22
SS11205	320900	6748550	0.71	3.20	1.86
SS11206	321000	6748550	0.80	3.31	1.15
SS11207	321100	6748550	0.49	3.51	2.10
SS11208	321200	6748550	0.63	3.76	1.49
SS11209	320340	6748325	0.36	2.38	1.50
SS11210	320340	6749925	0.32	3.88	0.94
SS11211	320340	6749525	0.39	2.71	0.90
SS11212	320340	6749125	0.63	3.41	0.67
SS11213	320340	6748725	1.34	3.68	1.92
SS11214	320820	6747905	0.56	4.24	2.51
SS11215	321120	6747905	0.48	3.67	4.36
SS11216	321720	6747905	0.38	5.38	7.77
SS11217	321120	6747665	0.66	4.66	3.11
SS11218	321720	6747665	0.42	4.93	8.09
SS11219	321120	6747425	0.57	3.37	1.35
SS11220	321720	6747425	0.37	5.01	7.64
SS11221	321420	6747185	0.29	3.85	3.12
SS11222	321720	6747185	0.59	4.49	10.05
SS11223	321720	6746945	0.61	3.91	1.76
SS11224	322067	6746917	0.71	4.39	5.70
SS11225	322010	6746690	0.96	4.65	9.03
SS11226	322010	6746490	0.58	3.91	5.57
SS11227	322210	6746290	0.61	4.90	4.39
SS11228	322410	6746290	0.68	3.72	3.19
SS11229	322610	6746290	0.62	4.65	8.50
SS11230	322810	6746290	0.44	4.34	8.72

Sample ID	East	North	HM %	Slimes %	OS %
SS11231	323010	6746290	0.58	6.41	6.76
SS11232	323210	6746290	0.53	5.38	8.42
SS11233	323410	6746290	0.25	4.83	4.34
SS11234	323610	6746290	0.27	5.66	8.38
SS11235	322210	6746090	0.49	3.51	2.35
SS11236	322610	6746090	0.70	5.13	4.88
SS11237	323010	6746090	0.36	5.07	8.37
SS11238	323410	6746090	0.28	4.88	8.32
SS11239	322310	6745890	0.53	3.56	3.91
SS11240	322610	6745890	0.40	5.23	6.74
SS11241	322810	6745890	0.29	5.18	7.29
SS11242	323010	6745890	0.42	4.44	4.90
SS11243	323210	6745890	0.29	5.00	5.11
SS11244	323410	6745890	0.35	6.14	10.69
SS11245	323610	6745890	0.28	6.00	5.46
SS11246	322610	6745690	0.27	4.90	5.59
SS11247	323010	6745690	0.46	4.47	3.23
SS11248	323410	6745690	0.55	5.40	7.40
SS11249	322610	6745490	0.31	7.40	4.29
SS11250	322810	6745490	0.58	4.12	5.43
SS11251	323010	6745490	0.53	6.94	4.74
SS11252	323210	6745490	0.37	8.95	7.61
SS11255	322610	6745290	0.37	4.16	5.30
SS11256	323010	6745290	0.39	5.22	6.88
SS11257	323410	6745290	0.61	3.62	5.83
SS11258	322610	6744490	0.34	3.81	6.23
SS11259	323010	6744490	0.53	3.30	6.64
SS11260	323410	6744490	0.34	4.22	4.84
SS11261	323710	6744490	0.44	4.31	5.78
SS11262	322610	6744290	0.50	3.20	8.34
SS11263	323010	6744290	0.49	4.48	4.72
SS11264	323410	6744290	0.39	6.56	6.00
SS11265	323710	6744290	0.31	2.80	3.27
SS11266	322610	6744090	0.73	3.34	6.04
SS11267	323010	6744090	0.58	5.12	7.61
SS11268	323410	6744090	0.45	3.73	8.84
SS11269	323710	6744090	0.40	3.84	5.50
SS11270	322850	6747539	0.34	5.23	2.54
SS11271	322694	6747415	0.35	6.33	3.48
SS11272	322537	6747290	0.39	4.41	5.04
SS11273	322210	6747090	0.97	6.92	4.93
SS11274	322410	6747090	0.79	4.70	5.71
SS11275	322610	6747090	0.43	4.81	7.60
SS11276	322810	6747090	0.35	4.18	7.36
SS11277	323010	6747090	0.36	5.39	8.69

Sample ID	East	North	HM %	Slimes %	OS %
SS11278	323210	6747090	0.32	5.49	3.54
SS11279	323410	6747090	0.28	4.27	3.43
SS11280	323610	6747090	0.23	5.33	2.75
SS11281	323810	6747090	0.27	6.84	4.64
SS11282	322210	6746890	0.96	5.15	9.50
SS11283	322410	6746890	1.13	4.82	6.21
SS11284	322610	6746890	0.78	5.83	4.43
SS11285	322810	6746890	0.65	5.78	9.18
SS11286	323010	6746890	0.34	5.31	10.80
SS11287	323210	6746890	0.29	6.03	3.57
SS11288	323410	6746890	0.28	5.57	6.81
SS11289	323610	6746890	0.24	5.86	3.04
SS11290	323810	6746890	0.17	5.12	4.24
SS11291	322210	6746690	0.85	5.02	8.63
SS11292	322410	6746690	0.61	4.55	4.74
SS11293	322610	6746690	0.50	7.81	10.47
SS11294	322810	6746690	0.53	4.84	10.61
SS11295	323010	6746690	0.36	5.09	8.59
SS11296	323210	6746690	0.42	8.90	6.24
SS11297	323410	6746690	0.37	6.91	3.05
SS11298	323610	6746690	0.32	6.15	4.96
SS11299	323810	6746690	0.21	4.83	3.36
SS11300	322210	6746490	0.73	4.76	4.35
SS11301	322410	6746490	0.81	4.49	6.17
SS11302	322610	6746490	0.93	4.91	10.41
SS11303	322810	6746490	0.61	4.62	7.73
SS11304	323010	6746490	0.84	7.11	5.28
SS11305	323210	6746490	0.75	5.51	8.12
SS11306	323410	6746490	0.42	4.95	5.29
SS11307	323610	6746490	0.16	5.27	4.22
SS11308	323810	6746490	0.19	7.66	6.97
SS11309	317850	6748400	0.10	53.44	5.33
SS11310	317850	6748200	0.04	35.40	19.72
SS11311	317850	6748000	0.76	9.11	0.66
SS11312	315840	6746430	0.49	0.65	0.21
SS11313	316240	6746430	0.20	0.84	0.34
SS11314	316640	6746430	0.26	0.54	0.13
SS11315	317040	6746430	0.37	1.31	0.32
SS11316	325600	6736600	0.31	2.72	4.45
SS11317	325800	6736600	0.26	2.69	2.04
SS11318	326000	6736600	0.41	4.23	4.69
SS11319	325600	6736400	0.50	2.59	4.29
SS11320	325800	6736400	0.39	2.40	2.21
SS11321	326000	6736400	0.25	2.58	2.51
SS11322	325600	6736200	0.51	5.04	5.67

Sample ID	East	North	HM %	Slimes %	OS %
SS11323	325800	6736200	0.44	4.93	6.02
SS11324	326000	6736200	0.22	2.38	2.44
SS11325	326500	6735750	0.18	2.29	0.66
SS11326	326700	6735750	0.15	2.50	0.96
SS11327	326900	6735750	0.13	2.79	1.40
SS11328	326500	6735550	0.41	3.43	3.64
SS11330	326900	6735550	0.35	5.79	6.50
SS11331	326500	6735350	0.44	4.32	6.49
SS11332	326700	6735350	0.57	4.09	13.15
SS11333	326900	6735350	0.38	3.23	8.64
SS11334	332301	6728555	0.11	0.79	6.49
SS11335	332298	6728358	0.18	6.38	8.86
SS11336	332295	6728169	0.26	4.23	8.42
SS11337	332321	6727986	0.28	4.60	9.45
SS11339	333350	6727700	0.19	7.97	9.35
SS11340	333450	6727700	0.11	3.63	6.66
SS11342	333250	6727600	0.14	8.13	11.49
SS11344	333450	6727600	0.24	5.41	12.29
SS11346	333250	6727500	0.32	4.86	9.74
SS11349	333550	6727500	0.61	4.71	7.60
SS11350	333250	6727400	0.24	4.11	9.70
SS11352	333450	6727400	0.67	4.13	10.17
SS11353	333550	6727400	0.52	4.38	7.14
SS11354	333250	6727300	0.46	4.86	9.90
SS11355	333350	6727300	0.64	4.49	4.66
SS11356	333450	6727300	0.52	4.42	5.65
SS11357	333550	6727300	0.37	4.90	5.36
SS11358	332634	6727031	0.16	4.77	6.51
SS11359	333633	6727048	0.23	3.95	1.86
SS11360	333383	6727044	0.61	4.14	5.28
SS11361	333133	6727039	0.16	4.65	3.00
SS11362	332884	6727035	0.20	4.00	5.87
SS11363	333633	6726648	0.22	3.86	0.74
SS11364	333383	6726644	0.34	4.90	2.09
SS11365	333133	6726639	0.25	3.78	5.21
SS11367	332634	6726631	0.20	3.94	7.78
SS11368	333633	6726248	0.21	3.37	1.08
SS11369	333383	6726244	0.50	3.70	3.59
SS11370	333133	6726239	0.61	3.66	4.20
SS11371	332884	6726235	0.56	3.03	4.17
SS11372	332634	6726231	0.16	4.31	5.89
SS11373	334280	6726528	0.57	7.82	6.79
SS11374	334330	6726528	0.68	5.87	6.05
SS11375	334380	6726528	0.54	5.28	6.34
SS11377	334480	6726528	0.25	4.26	4.93

Sample ID	East	North	HM %	Slimes %	OS %
SS11378	334530	6726528	0.25	4.15	6.16
SS11379	334580	6726528	0.13	4.47	11.88
SS11380	334280	6726428	0.53	3.87	5.19
SS11381	334330	6726428	0.68	5.24	7.79
SS11382	334380	6726428	0.63	4.14	7.67
SS11383	334430	6726428	0.49	4.53	6.08
SS11384	334480	6726428	0.30	5.01	11.16
SS11385	334530	6726428	0.19	4.98	11.82
SS11387	334280	6726328	0.47	5.21	5.00
SS11388	334330	6726328	0.65	3.59	3.03
SS11389	334380	6726328	0.93	5.29	5.12
SS11390	334430	6726328	0.92	5.88	11.09
SS11392	334530	6726328	0.25	2.99	5.70
SS11393	334580	6726328	0.32	5.01	13.38
SS11394	334280	6726228	0.44	4.22	3.03
SS11395	334330	6726228	0.52	3.54	6.32
SS11396	334380	6726228	0.52	3.95	4.06
SS11397	334430	6726228	0.80	5.10	7.20
SS11398	334480	6726228	0.59	5.62	7.53
SS11400	334580	6726228	0.30	3.35	2.46
SS11401	335016	6727304	0.25	3.55	11.23
SS11402	335116	6727304	0.13	3.36	6.90
SS11403	335216	6727304	0.60	5.05	9.17
SS11404	335316	6727304	0.86	4.65	6.42
SS11405	335416	6727304	1.24	6.15	4.90
SS11406	335516	6727304	0.96	7.77	4.26
SS11407	335616	6727304	0.41	4.81	3.10
SS11408	335716	6727304	0.34	3.74	0.56
SS11409	335816	6727304	0.42	3.57	0.41
SS11410	335916	6727304	0.34	3.54	0.45
SS11411	336016	6727304	0.74	4.56	0.77
SS11412	336116	6727304	1.67	8.44	1.94
SS11413	336216	6727304	0.57	5.26	4.61
SS11415	336416	6727304	0.59	13.63	5.43
SS11416	336516	6727304	0.36	6.58	4.39
SS11417	336616	6727304	0.13	2.79	3.52
SS11418	336716	6727304	0.11	2.44	4.89
SS11419	336816	6727304	0.17	3.91	4.79
SS11420	335065	6727110	0.09	3.15	5.21
SS11421	335165	6727110	0.40	4.53	8.14
SS11422	335265	6727110	1.61	8.45	3.52
SS11423	335365	6727110	0.70	4.80	1.75
SS11424	335465	6727110	0.35	4.18	1.09
SS11425	335565	6727110	0.24	4.10	1.00
SS11426	335665	6727110	0.55	4.58	1.15

Sample ID	East	North	HM %	Slimes %	OS %
SS11427	335765	6727110	0.38	3.18	0.72
SS11428	335865	6727110	0.42	3.73	0.85
SS11429	335965	6727110	0.28	3.27	0.76
SS11430	336065	6727110	0.25	3.56	0.94
SS11431	336165	6727110	0.28	4.54	1.31
SS11432	336265	6727110	0.66	7.51	1.53
SS11433	336365	6727110	0.56	5.30	1.82
SS11434	336465	6727110	0.30	3.95	2.17
SS11435	336565	6727110	0.30	4.15	1.72
SS11436	336665	6727110	0.17	3.05	1.62
SS11437	336765	6727110	0.09	2.85	3.86
SS11438	336865	6727110	0.07	3.62	5.39
SS11439	335113	6726916	0.25	2.85	4.83
SS11440	335213	6726916	1.29	4.32	2.71
SS11441	335313	6726916	0.85	4.62	1.66
SS11442	335413	6726916	0.58	4.27	1.21
SS11443	335513	6726916	0.47	4.39	0.62
SS11444	335613	6726916	0.43	4.11	0.78
SS11445	335713	6726916	0.37	3.57	0.94
SS11446	335813	6726916	0.43	3.87	0.79
SS11447	335913	6726916	0.32	3.57	0.68
SS11448	336013	6726916	0.42	3.90	0.53
SS11449	336113	6726916	0.58	6.97	1.18
SS11451	336313	6726916	1.15	5.96	3.00
SS11452	336413	6726916	0.85	5.04	1.79
SS11453	336513	6726916	0.71	5.58	1.90
SS11454	336613	6726916	0.47	4.39	1.78
SS11455	336713	6726916	0.15	2.02	1.92
SS11456	336813	6726916	0.11	4.34	2.81
SS11457	335161	6726722	0.42	2.43	4.63
SS11458	335261	6726722	1.83	3.49	2.99
SS11459	335361	6726722	0.98	4.88	1.23
SS11460	335461	6726722	0.39	3.18	1.40
SS11461	335561	6726722	0.49	3.18	0.71
SS11462	335661	6726722	0.41	3.17	0.62
SS11463	335761	6726722	0.37	3.10	0.80
SS11464	335861	6726722	0.24	2.92	1.14
SS11465	335961	6726722	0.24	3.52	1.23
SS11466	336061	6726722	0.56	5.39	0.62
SS11467	336161	6726722	0.69	5.47	1.19
SS11468	336261	6726722	0.34	3.25	1.04
SS11469	336361	6726722	0.29	3.16	0.70
SS11470	336461	6726722	0.42	4.91	1.22
SS11471	336561	6726722	0.37	5.55	1.38
SS11472	336661	6726722	0.26	6.34	2.19

Sample ID	East	North	HM %	Slimes %	OS %
SS11473	336761	6726722	0.08	3.13	1.54
SS11474	335210	6726528	0.76	3.02	2.19
SS11475	335310	6726528	1.91	5.60	2.09
SS11476	335410	6726528	0.56	6.50	3.47
SS11477	335510	6726528	0.20	4.15	2.75
SS11478	335610	6726528	0.25	4.56	1.37
SS11479	335710	6726528	0.44	3.84	0.80
SS11480	335810	6726528	0.43	3.48	0.87
SS11481	335910	6726528	0.20	2.84	0.98
SS11482	336010	6726528	0.21	3.19	0.84
SS11483	336110	6726528	0.64	5.63	1.04
SS11485	336310	6726528	0.30	2.23	1.45
SS11486	336410	6726528	0.39	4.13	2.44
SS11488	336610	6726528	0.41	6.91	2.64
SS11489	336710	6726528	0.11	2.64	1.50
SS11490	335258	6726334	0.63	3.26	2.33
SS11491	335358	6726334	0.33	2.43	1.93
SS11492	335458	6726334	0.47	4.10	1.19
SS11493	335558	6726334	0.27	5.52	2.02
SS11494	335658	6726334	0.31	4.59	0.85
SS11495	335758	6726334	0.36	4.13	0.52
SS11496	335858	6726334	0.40	3.81	0.57
SS11497	335958	6726334	0.27	2.58	0.94
SS11498	336058	6726334	0.41	3.99	0.93
SS11499	336158	6726334	1.60	4.15	1.44
SS11500	336258	6726334	0.40	3.18	2.11
SS11501	336358	6726334	0.16	2.93	3.48
SS11502	336458	6726334	0.52	4.60	3.04
SS11503	336558	6726334	0.53	5.88	3.66
SS11504	336658	6726334	0.50	6.55	3.16
SS11505	335307	6726140	0.43	3.59	3.54
SS11506	335407	6726140	0.25	2.37	2.78
SS11507	335507	6726140	0.50	2.36	0.48
SS11508	335607	6726140	0.91	4.10	1.06
SS11509	335707	6726140	0.47	5.38	1.53
SS11510	335807	6726140	0.42	4.67	0.97
SS11511	335907	6726140	0.57	4.83	0.83
SS11512	336007	6726140	0.43	4.24	0.78
SS11513	336107	6726140	0.73	4.44	0.61
SS11514	336207	6726140	2.00	4.11	1.92
SS11515	336307	6726140	1.08	5.30	2.99
SS11516	336407	6726140	0.36	4.24	4.07
SS11517	336507	6726140	0.44	6.03	8.05
SS11518	335107	6725940	0.29	5.81	7.86
SS11519	335207	6725940	0.12	3.82	6.43

Sample ID	East	North	HM %	Slimes %	OS %
SS11520	335307	6725940	0.12	3.45	7.11
SS11521	335407	6725940	0.02	2.31	4.01
SS11522	335507	6725940	0.36	2.62	2.08
SS11523	335607	6725940	0.62	3.87	0.64
SS11524	335707	6725940	0.51	4.58	1.02
SS11525	335807	6725940	0.42	4.49	0.74
SS11526	335907	6725940	0.51	2.55	0.85
SS11527	336007	6725940	0.60	4.96	0.72
SS11528	336107	6725940	0.30	2.52	0.84
SS11529	336207	6725940	0.42	3.55	1.09
SS11530	336307	6725940	0.62	4.91	2.44
SS11531	335107	6725740	0.19	3.60	11.06
SS11532	335207	6725740	0.15	2.55	7.96
SS11533	335307	6725740	0.12	4.45	10.88
SS11534	335407	6725740	0.09	4.25	11.75
SS11535	335507	6725740	0.29	1.93	3.28
SS11536	335607	6725740	0.63	1.84	1.18
SS11537	335707	6725740	0.26	1.32	0.92
SS11538	335807	6725740	0.74	2.45	0.98
SS11539	335907	6725740	0.47	2.84	1.24
SS11540	336007	6725740	0.40	3.72	1.32
SS11541	336107	6725740	0.12	3.32	1.50
SS11542	336207	6725740	0.12	3.25	3.98
SS11543	335107	6725540	0.30	4.06	7.41
SS11544	335207	6725540	0.54	4.64	8.90
SS11545	335307	6725540	0.91	4.46	6.89
SS11546	335407	6725540	0.33	2.83	7.70
SS11547	335507	6725540	0.13	5.00	9.31
SS11548	335607	6725540	0.24	3.76	6.88
SS11549	335707	6725540	0.62	3.07	2.98
SS11550	335807	6725540	0.48	2.80	2.60
SS11551	335907	6725540	0.25	2.83	1.71
SS11552	336007	6725540	0.16	6.85	3.75
SS11553	335107	6725340	0.59	6.52	1.56
SS11554	335207	6725340	0.79	6.16	2.13
SS11555	335307	6725340	0.73	4.57	1.37
SS11556	335407	6725340	0.72	2.15	1.18
SS11557	335507	6725340	0.56	2.29	1.34
SS11558	335607	6725340	0.48	5.16	5.61
SS11559	335707	6725340	0.54	3.90	5.12
SS11560	335807	6725340	0.63	6.63	7.65
SS11561	335107	6725140	0.66	5.97	1.79
SS11562	335207	6725140	0.70	4.15	0.72
SS11563	335307	6725140	0.68	3.51	0.63
SS11564	335407	6725140	0.50	3.07	0.52

Sample ID	East	North	HM %	Slimes %	OS %
SS11565	335507	6725140	0.35	3.92	0.65
SS11566	335607	6725140	0.25	3.60	1.56
SS11567	335707	6725140	0.40	6.26	4.07
SS11568	335107	6724940	0.39	3.41	0.52
SS11569	335207	6724940	0.72	3.92	0.35
SS11570	335307	6724940	0.36	3.92	0.64
SS11571	335407	6724940	0.10	2.64	1.04
SS11572	335507	6724940	0.15	4.79	1.40
SS11573	334357	6726061	0.38	5.06	4.82
SS11574	334357	6725961	0.28	5.26	5.64
SS11575	334360	6725861	0.34	4.99	5.88
SS11576	334360	6725761	0.47	5.65	4.73
SS11577	334363	6725661	0.52	6.24	4.52
SS11578	334363	6725561	0.83	6.08	4.58
SS11579	334366	6725461	0.82	7.73	3.63
SS11581	334369	6725261	0.68	6.94	5.95
SS11582	334369	6725161	0.86	6.42	5.80
SS11583	334372	6725061	0.61	5.85	5.95
SS11584	334372	6724961	0.34	5.51	5.56
SS11585	334375	6724861	0.32	6.19	5.23
SS11586	334375	6724761	0.35	5.98	9.23
SS11587	334373	6723806	0.99	8.24	2.64
SS11588	334373	6723706	0.57	6.44	3.86
SS11589	334377	6723606	0.57	5.83	4.05
SS11590	334377	6723506	0.22	15.60	4.76
SS11591	334380	6723406	0.36	6.65	8.03
SS11592	334380	6723306	0.28	12.01	6.97
SS11593	334384	6723206	0.26	9.18	8.12
SS11594	334384	6723106	0.25	11.03	5.83
SS11595	334387	6723006	0.23	11.52	7.08
SS11596	334387	6722906	0.26	5.69	6.38
SS11597	335281	6721373	0.42	10.82	6.23
SS11598	334947	6721396	0.25	4.83	9.15
SS11599	335107	6721392	0.16	11.63	12.74
SS11600	334950	6721196	0.32	5.08	3.83
SS11603	334960	6720596	2.30	5.77	2.90
SS11604	324412	6720833	0.09	3.83	5.40
SS11605	325772	6720910	0.20	12.31	6.51
SS11606	327614	6720877	0.15	7.55	5.96
SS11607	327723	6720484	0.28	6.98	3.62
SS11608	329511	6720110	0.19	15.55	11.97
SS11609	326415	6713945	0.32	12.81	3.99

Sample ID	East	North	HM %	Slimes %	OS %
SS11610	326455	6713226	0.21	5.62	4.20
SS11611	335029	6714680	0.23	2.69	10.53
SS11612	335036	6714280	0.37	4.31	9.58
SS11613	336930	6714164	0.47	5.44	6.94
SS11614	336554	6714028	0.21	5.68	8.25
SS11615	336178	6713891	0.28	3.51	9.39
SS11616	335802	6713754	0.41	5.60	4.89
SS11617	335047	6713680	0.45	4.75	7.02
SS11618	335426	6713617	0.42	4.68	13.16
SS11619	335050	6713480	0.50	6.89	7.86
SS11620	334653	6713439	0.15	4.50	11.49
SS11621	334255	6713397	0.19	4.60	5.86
SS11622	338433	6714712	0.15	6.97	10.10
SS11623	338929	6714700	0.21	4.38	13.04
SS11624	339329	6714700	0.12	4.07	9.51
SS11625	338057	6714575	0.15	3.98	6.59
SS11626	337681	6714438	0.16	5.65	5.67
SS11627	337306	6714301	0.44	7.38	7.11
SS11628	339349	6714301	0.15	4.95	14.98
SS11629	339368	6713901	0.44	4.72	11.65
SS11630	339387	6713502	0.65	6.33	6.22
SS11631	339406	6713102	1.53	13.30	5.20
SS11632	339425	6712703	0.45	5.95	1.37
SS11633	339445	6712303	0.62	4.20	2.07
SS11634	339464	6711904	0.43	4.11	4.25
SS11635	339483	6711504	0.21	5.56	10.19
SS11636	339502	6711104	1.56	5.45	3.42
SS11638	339607	6708243	0.39	11.87	3.01
SS11639	339625	6707901	0.10	3.78	3.14
SS11641	340030	6699344	0.52	5.28	4.38
SS11642	340030	6699208	0.45	4.07	5.11
SS11643	340029	6699070	0.46	3.87	3.58
SS11644	340028	6698933	0.49	4.43	3.85
SS11645	340038	6698676	0.41	4.39	3.64
SS11646	340049	6698419	0.58	4.82	3.61
SS11648	340070	6697905	0.59	4.32	2.51
SS11649	340080	6697705	2.64	3.39	2.03
SS11650	340091	6697505	4.80	4.82	1.63
SS11651	340393	6697397	0.81	3.78	2.80
SS11652	340252	6697252	1.30	4.38	3.54
SS11653	340112	6697106	1.73	9.26	2.25
SS11654	340122	6696906	0.64	2.90	1.95

Sample ID	East	North	HM %	Slimes %	OS %
SS11655	340133	6696707	0.43	3.75	4.21
SS11656	339702	6696667	0.95	4.25	2.42
SS11657	340010	6696661	0.89	3.79	1.60
SS11658	339462	6696655	0.40	3.48	1.40
SS11659	339222	6696644	0.23	4.93	2.25
SS11660	338982	6696632	0.23	3.90	2.62
SS11661	338742	6696620	0.26	3.78	1.84
SS11663	338738	6696287	0.36	4.48	2.45
SS11664	340614	6696078	2.44	3.87	2.06
SS11665	340369	6696041	0.63	4.01	1.08
SS11666	340123	6696004	1.59	2.98	1.48
SS11667	339897	6695970	0.55	4.32	1.86
SS11668	338734	6695955	0.52	4.77	1.92
SS11669	339671	6695935	0.56	68.59	2.31
SS11670	338912	6695914	0.48	1.90	2.73
SS11672	339090	6695873	1.14	3.74	5.23
SS11673	339698	6695757	0.81	3.37	2.21
SS11675	339181	6695609	0.88	4.05	2.13
SS11676	339693	6695517	0.36	2.48	3.06
SS11677	338964	6695487	1.04	4.35	3.15
SS11678	338747	6695365	1.63	3.39	3.07
SS11679	339217	6695321	0.82	3.38	1.68
SS11680	339687	6695277	0.42	4.07	3.77
SS11681	338742	6695068	0.58	3.86	1.96
SS11682	339683	6695026	0.29	3.86	4.76
SS11683	339678	6694776	0.55	4.56	7.35
SS11684	339208	6694774	0.55	3.76	1.10
SS11685	338738	6694772	0.34	3.10	4.25
SS11686	339692	6694487	0.22	6.95	7.65
SS11687	338666	6694419	0.48	7.41	1.57
SS11690	338594	6694067	0.46	4.11	3.05
SS11692	338677	6693780	0.58	4.86	3.33
SS11693	339706	6693567	0.39	6.49	4.66
SS11694	339233	6693530	0.66	3.68	1.33
SS11695	338761	6693493	0.26	3.51	1.44
SS11696	339715	6693317	0.47	5.47	14.26
SS11697	338812	6693203	0.42	3.07	3.27
SS11698	339725	6693067	0.57	4.24	5.09
SS11699	339294	6692990	0.33	3.84	2.16
SS11700	338863	6692914	0.20	2.99	2.97
SS11701	339743	6692742	0.29	2.54	5.33
SS11702	338904	6692603	0.48	4.03	5.75

Sample ID	East	North	HM %	Slimes %	OS %
SS11704	339354	6692355	0.21	4.18	3.57
SS11705	338946	6692293	0.50	3.16	3.89
SS11707	339002	6691922	0.27	2.92	1.98
SS11708	339762	6691714	0.37	2.16	3.16
SS11709	339410	6691633	0.26	4.26	2.60
SS11710	339057	6691552	0.29	4.99	5.88
SS11711	339776	6691377	0.30	1.95	1.57
SS11712	339069	6691340	0.47	5.67	10.37
SS11716	337902	6690394	0.38	2.94	7.70
SS11719	337090	6690340	0.47	5.45	6.99

ABOUT SHEFFIELD RESOURCES

Sheffield Resources Limited (**Sheffield**) is a rapidly emerging heavy mineral sands (HMS) company.

ASX Code – SFX

Market Cap @ 56cps - \$66.2m

Issued shares – 118.3m

Cash - \$8.5m (at 30 June 2013)

Sheffield's projects are all situated within the state of Western Australia and are 100% owned by the Company.

HEAVY MINERAL SANDS

The Dampier project, located near Derby in WA's Canning Basin region, contains the large, high grade zircon-rich Thunderbird HMS deposit.

The Eneabba project comprises multiple HMS deposits and is located near Eneabba approximately 140km south of the port of Geraldton in WA's Mid-West region.

Sheffield is also evaluating the large McCalls chloride ilmenite project, located 110km to the north of Perth.

NICKEL-COPPER

Sheffield's Red Bull project is located in the highly prospective Fraser Complex within 20km of Sirius Resources NL's (ASX:SIR) Nova Ni-Cu discovery.

IRON

Sheffield holds four exploration licences prospective for iron in the North Pilbara region, all near existing iron ore mine sites or major development projects and within potential trucking distance of Port Hedland. Following its recent sale of the South Pilbara Iron tenements, Sheffield continues to seek to unlock value on its remaining Pilbara iron tenements through consolidation and/or further exploration.

POTASH

The Oxley potash project is located in the northern part of the Proterozoic Moora Basin, approximately 38km northeast of Three Springs. Sheffield is exploring the Oxley Potash project for unconventional hard rock potash mineralisation suitable for open pit mining.

ANNEXURE 1 – TECHNICAL DETAILS

The Drummond Crossing area was originally explored by RGC and Iluka from before 1993 to 2000, completing regional drill traverses. Sheffield identified the area from historic reports and in 2011 and 2012 completed its own drilling programs, with the objective of estimating a Mineral Resource for the prospect (see ASX releases by Sheffield (ASX:SFX) dated 21 November, 2011; 24 January 2012, and; September 2012 Quarterly Report for details of this drilling).

Within the Inferred and Indicated resource area, the drill hole database comprises 83 holes drilled by RGC or Iluka (total 2,135m) and 135 holes drilled by Sheffield (4,063m) on a pattern of (nominally) 450m x 120m. Note 81 drill holes used in the estimate are outside the reported Indicated and Inferred resource.

Holes within the Inferred and Indicated resource area have been surveyed either by GPS (38%, Iluka/RGC) or RTK-GPS (62%, Sheffield). To account for topographic changes between sections, all drill hole RL (height) data was projected to a digital elevation model (DEM) generated from spot data supplied by Landgate (accuracy +/- 1.5m) and discretised to 15m x 15m. This DEM was subsequently used in the resource estimation process in order to represent a consistent land surface between drill holes.

Heavy Mineral, Slimes and Oversize determinations were by Heavy Liquid Separation techniques. Holes drilled by Sheffield used -53µm and 1mm screen sizes, with static separation in TBE (SG 2.96), representing 70% of values within the Inferred and Indicated resource area. Holes drilled by Iluka/RGC used -75µm and 2mm screen sizes with static separation in TBE for 28% of values within the Inferred and Indicated resource area, and -53µm and 2mm screen sizes with static separation in TBE (SG 2.96) for 2% of values within the Inferred and Indicated resource area. Visual inspection of HM indicates only a very small proportion of material in the 53-75µm range, therefore this change in method is not considered to materially affect the resource estimation.

Resource domains were based on a combination of grade and geological factors driven by deposit continuity (see Annexure 2 for further detail).

Bulk Density was determined using an industry-standard formula which assumes density and proportionately accounts for the grain size and mineral component of the material.

The mineral assemblage of the resource was determined from results of QEMSCAN™ analysis by Bureau-Veritas in Queensland of 17 Heavy Mineral Concentrate (HMC) composite samples collected from Sheffield's drill holes throughout the deposit.

At Drummond Crossing, the QEMSCAN™ process used observed mass and chemistry to classify particles according to their average chemistry, and then report mineral abundance by % mass. For the TiO₂ minerals specific breakpoints are used to distinguish between rutile (>95% TiO₂), leucoxene (85-95% TiO₂) and ilmenite (<55-85% TiO₂). These breakpoints are chosen to reflect mineral assemblage data defined by previous workers in the region, and provide a consistent base for comparison between Mineral Resources.

Resource estimation was by Mr Trent Strickland from QG Pty Ltd, an internationally recognised, independent consultancy group specialising in resource evaluation. Details of the estimation methodology are contained in Annexure 2.



ANNEXURE 2 – ESTIMATION METHODOLOGY

Memorandum

To: Sheffield Resources Ltd
From: Trent Strickland

Date: 29 October 2013
Subject: Drummond Crossing Mineral Sands Deposit Resource Statement

This document presents the Mineral Resource Statement for the Drummond Crossing deposit, Western Australia.

Drummond Crossing Mineral Resource Statement

QG have provided Sheffield Resources Ltd (SFX) with a resource model for the Drummond Crossing deposit. The estimate is based on aircore (AC) and reverse circulation (RC) drilling data conducted by three companies from 1993 to 2012: Iluka Resources Limited (Iluka), Renison Goldfields Consolidated (RGC) and SFX.

The Drummond Crossing deposit is a broad, dunal-style heavy mineral sand (HMS) deposit, and is one of several HMS deposits which comprise Sheffield's Eneabba HMS project. It is situated on cleared freehold land 14km to the north of Eneabba, Western Australia. The deposit is 4km long and up to 2.3km wide. Mineralisation occurs from surface to depths of up to 30m, with an average thickness of 8m.

A total of 299 vertical AC and RC drillholes, for a total of 8,471m have been used to define the Mineral Resource. The drill spacing is approximately 450m x 120m. QG reviewed the quality of drill data (location, sampling and assay quality) and conclude that the data is of acceptable quality for use in resource estimation.

New wireframe solid model interpretations of mineralisation were made by SFX using thresholds of ~0.7% heavy mineral (HM) (low grade) and 1.5% HM (high grade). HM grade was used along with specific geological considerations to define the domain wireframes. QG assessed the robustness of these domains by critically examining the geological interpretation and using a variety of measures including statistical and geostatistical analysis. The domains are considered geologically robust in the context of the resource classification applied to the estimate.

Ordinary Kriging was used to estimate HM%, slime% and oversize% and the search (or 'neighbourhood') employed was optimised using Quantitative Kriging Neighbourhood Analysis (QKNA). Density was assigned globally to the estimated domains. Hard boundaries were applied to estimation within mineralisation domains. Top cuts were applied to HM%, slime% and oversize%.

QEMSCAN results from 17 Heavy Mineral Concentrate (HMC) composites totalling 223.5m were used to estimate the mineral assemblage of the Drummond Crossing Mineral Resource. Five of the composites (78m) were from the 2011 drilling program and 12 (145.5m) from the 2012 program. The 2011 composites consisted of samples taken from discrete intervals from within the low grade and high grade domains from multiple holes and combined. The 2012 composites were comprised of full-width intersections through both domains from single drillholes. The composites were well distributed throughout the deposit. Grade estimation of the mineral assemblage used Cokriging to preserve the correlations between minerals.

The estimate was validated by QG as follows:

- A visual checking of the interpolation results in both plan and section;
- Global input vs. output statistics were compared, including clustered and declustered composites; and
- Semi-local input vs. output statistics using moving window averages.

The estimate was considered to be robust on the basis of the above checks.

Resource Classification of the Drummond Crossing estimate took into account all aspects of the integrity of the estimate, including: data quality, geological interpretation, domaining approach, data distribution and density, spatial continuity and estimation confidence. The majority of the high grade material within the estimate is classified (according to JORC, 2004) as Indicated, with some Inferred material in the far north due to reduced drill density. In comparison, a larger proportion of the low grade material is classified as Inferred, specifically in the north and southeast due to the narrow geometry of the domain, drill density and marginal grades.

QG's estimate of Mineral Resources of the Drummond Crossing deposit as at the 18th October 2013 is summarised in Table A1 (below).

Mineral Resource Category	Material Million Tonnes*	Bulk Density	HM %	Slimes %	Osize %	In-situ HM Tonnes* (KT)
Indicated	48.7	2.0	2.1	16	9	1,020
Inferred	3.5	2.0	1.5	16	8	50
TOTAL	52.2	2.0	2.1	16	9	1,070

Mineral Resource Category	In-situ HM Tonnes* (KT)	Mineral Assemblage (% of HM Tonnes)				
		Zircon	Rutile	Leucoxene	Ilmenite	Total VHM
Indicated	1,020	14	10	3.6	53	81
Inferred	50	13	10	2.8	55	80
TOTAL	1,070	14	10	3.5	53	81

Table A1. Drummond Crossing Mineral Resource Estimate

Notes: Resource reported at a cut-off grade of 1.1% HM, with an upper slime cut-off of 35%. *Tonnes have been rounded to reflect the relative uncertainty of the estimate. TiO₂ minerals defined according to the following ranges: rutile >95% TiO₂; leucoxene 85-95% TiO₂; ilmenite <55-85% TiO₂.

Yours faithfully,

Trent Strickland
Senior Consultant

Competent Persons Statements

The information in this report that relates to Mineral Resources is based on information compiled by Trent Strickland, who is a Member of the Australasian Institute of Mining and Metallurgy (AusIMM). Trent Strickland is a full time employee of QG. Trent Strickland has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Trent Strickland consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

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COMPLEXITY
TO
CLARITY.