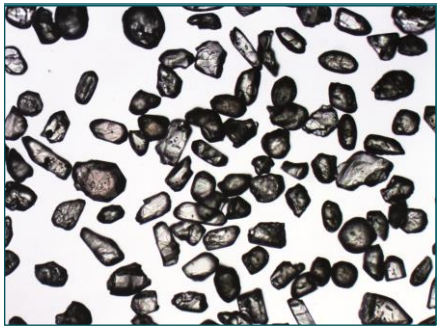


Sheffield Resources LIMITED

SFX

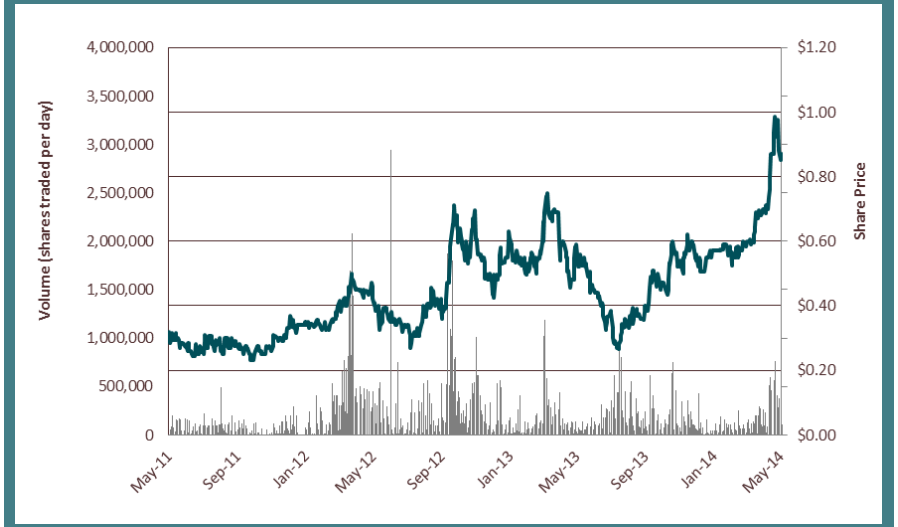
Thunderbird

A New Tier 1 Mineral Sands Project

Long Life High Margin Premium Product Tier 1

9 MAY 2014

Company Snapshot



Shareholder Split*	
Top 20 Shareholders	**40%**
Directors	**19.3%**

* Pre-completion of capital raising (as announced 9 May 2014)

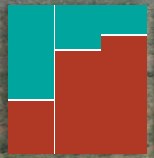
Pro forma Capital Structure^	
Share price	**$0.87**
Shares on issue	**133.8m**
Employee Options (Ave. Ex Price 68c)	**8.1m**
Market Cap (Undiluted)	**$116m**
Cash (post capital raising (approx.), no debt)	**$13m**
Enterprise Value	**$103m**

^ Following completion of capital raising (as announced 9 May 2014)

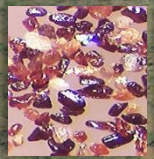
Key Messages

THUNDERBIRD MINERAL SANDS

Long Life



High Margin



Premium Product

Tier 1 Project

Board & Management

	Board & Management	
	**Will Burbury**	Executive Chairman
	**Bruce McQuitty**	Managing Director
	**David Archer**	Technical Director
	**David Boyd**	Exploration Manager
	**Mark Teakle**	Project Development Manager
	**Wayne Groeneveld**	Sustainability Manager

PROVEN TRACK RECORD

- History of successful Exploration and Corporate Transactions
- Built global scale HMS resource base in 3 years
- Completed Thunderbird Scoping Study
- 37 years of collective mineral sands experience

AUSTRALIAN MINING PROSPECT AWARDS WINNER 2013 Explorer of the Year

Diggers & Dealers Mining Forum 2013 Diggers & Dealers Mining Forum Winner of The Best Emerging Company Award

Strategic Location

DAMPIER MINERAL SANDS PROJECT

THUNDERBIRD

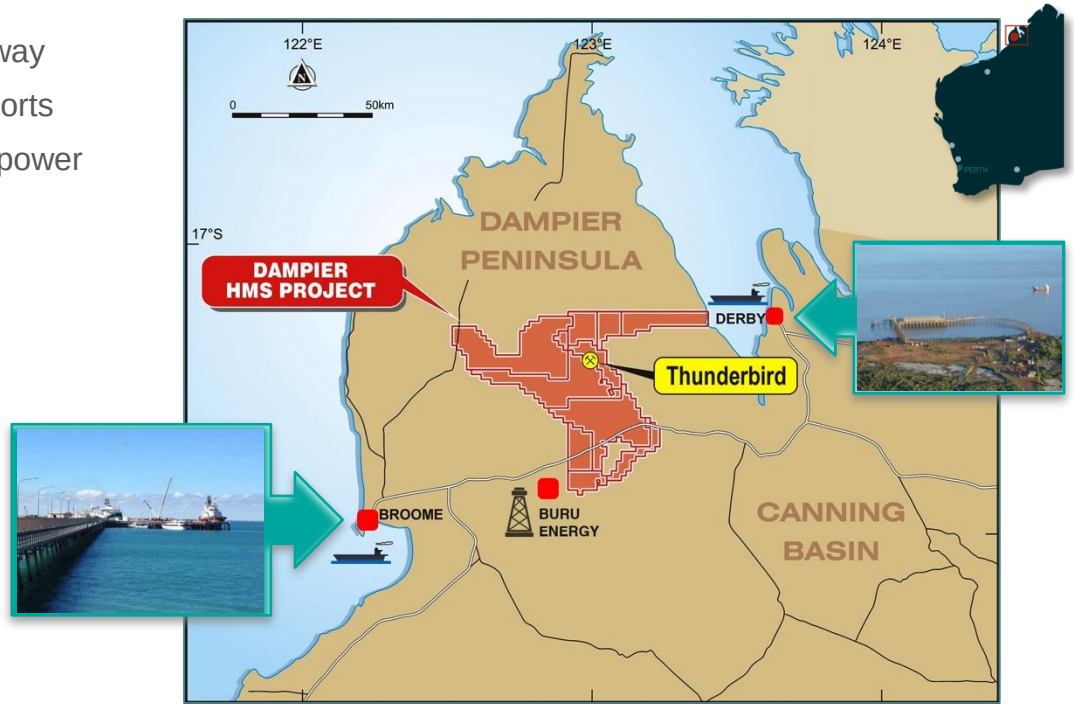
- 30km north of sealed Broome - Derby highway
- 140km by road to either Broome or Derby ports
- Gas discoveries nearby providing potential power source for project
- Close to Asian markets

CANNING BASIN

- Thunderbird first major HMS discovery in the province
- Sheffield holds over 2,500km^2

WESTERN AUSTRALIA

- Stable jurisdiction
- Pool of skilled workers & expertise
- Established mineral sands industry

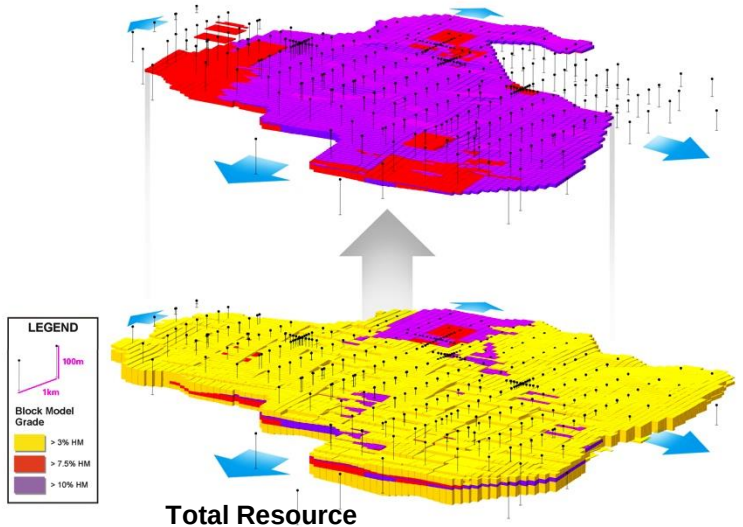


Large Scale, High Grade

THUNDERBIRD MINERAL RESOURCE 19 MARCH 2014

		Mineral Resources [2]		Valuable HM Grade (in situ) [1]			
Resource Category	Cut-off HM%	Material Mt	HM %	Zircon %	HiTi Leucoxene %	Leucoxene %	Ilmenite %
Measured	3.0	75	7.5	0.68	0.20	0.18	2.2
Indicated	3.0	1,805	6.8	0.56	0.19	0.20	1.9
Inferred	3.0	740	5.7	0.49	0.17	0.20	1.6
Total	**3.0**	**2,620**	**6.5**	**0.55**	**0.18**	**0.20**	**1.8**
Measured	7.5	30	12.2	1.1	0.32	0.26	3.6
Indicated	7.5	545	12.5	0.94	0.29	0.25	3.5
Inferred	7.5	165	10.9	0.84	0.27	0.24	3.2
Total	**7.5**	**740**	**12.1**	**0.92**	**0.29**	**0.25**	**3.4**

High Grade Zone
740Mt @ 12.1% HM (at 7.5%HM cut-off)



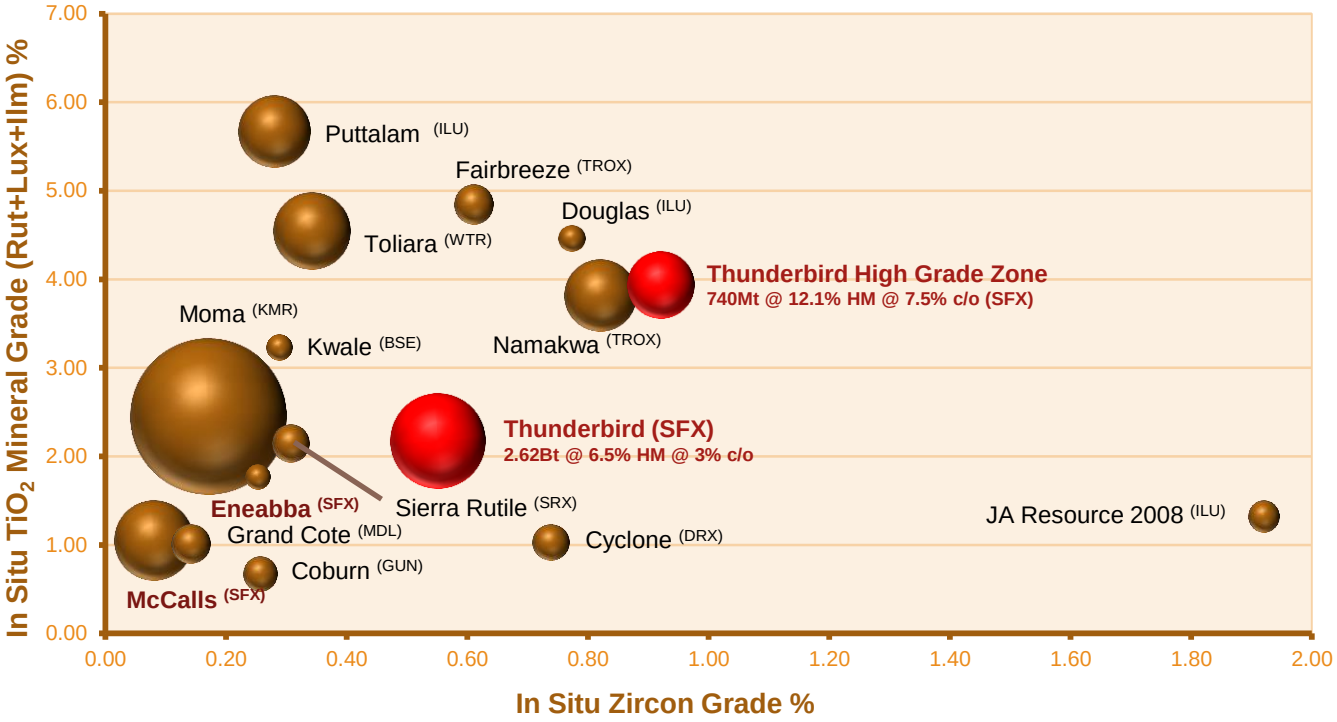
Total Resource
2.62Bt @ 6.5% HM (at 3%HM cut-off)

- Key to Thunderbird is continuous High Grade Zone >7.5% HM (mostly >10% HM)
- This zone occurs at or near surface in the northeastern section of the deposit

1. The in situ grade is determined by multiplying the percentage of HM by the percentage of each valuable heavy mineral within the heavy mineral assemblage.
2. Tonnes have been rounded to reflect the relative uncertainty of the estimate. Refer to Appendices 3 & 4 for further details.

Tier 1 Project

THUNDERBIRD MINERAL SANDS



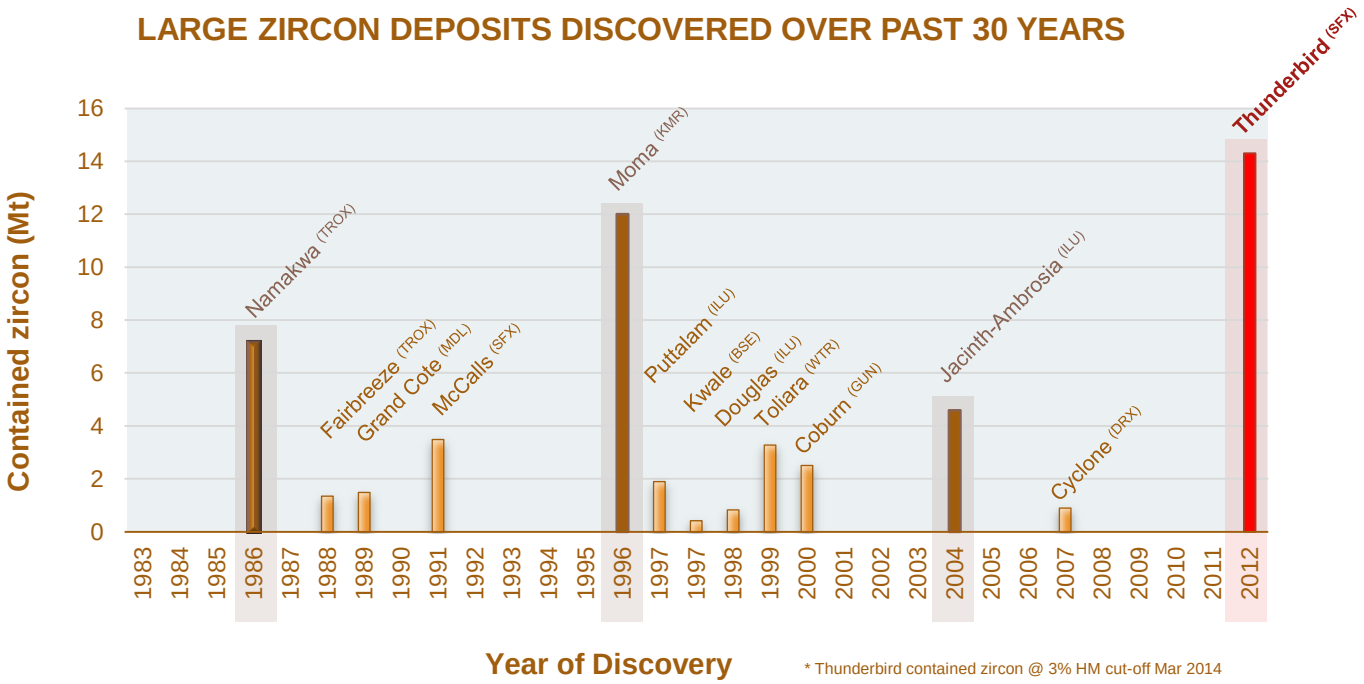
Amongst the world's largest and highest grade deposits

Only deposits greater than 100Mt are shown
Bubble size proportional to contained VHM tonnes

Data compiled by SFX from open file sources
Rio Tinto's deposits excluded (unable to be sourced)

Tier 1 Project

THUNDERBIRD MINERAL SANDS



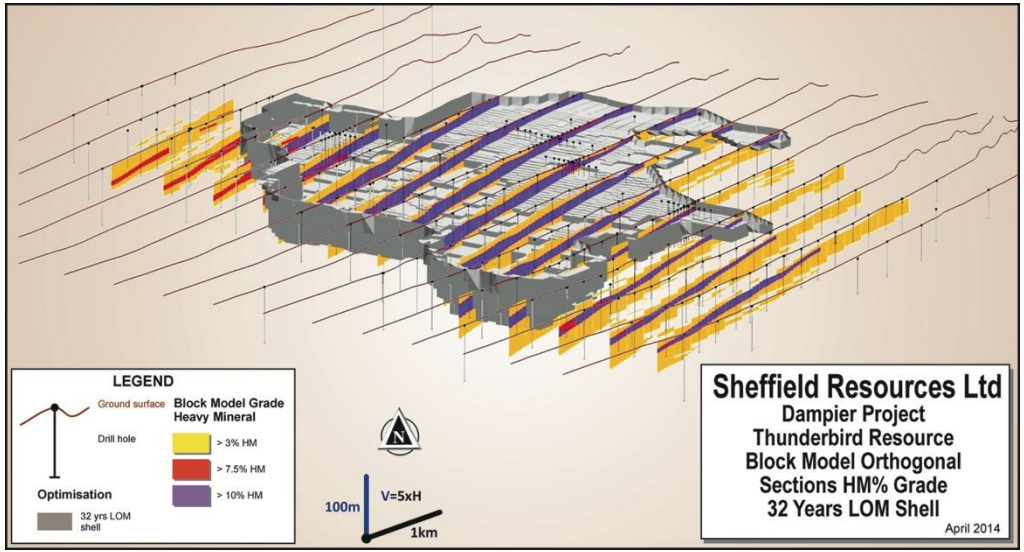
* Thunderbird contained zircon @ 3% HM cut-off Mar 2014

Most significant discovery in decades: Grade and Scale

Tier 1 Project

EXCEPTIONAL RESULTS FROM THUNDERBIRD SCOPING STUDY

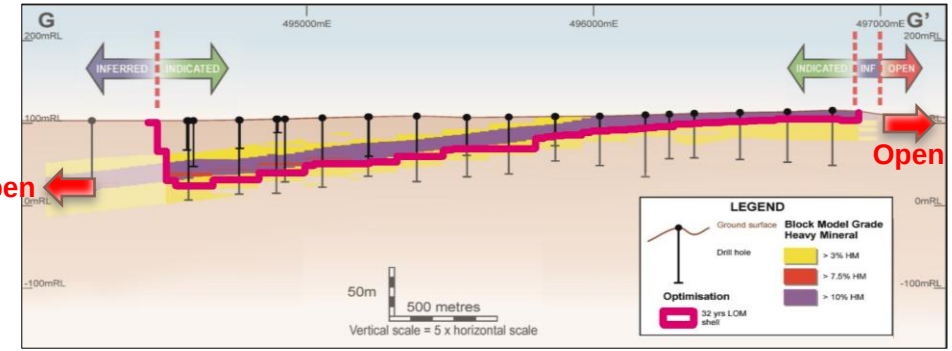
- Long initial mine life of 32 years
- Targeting ~ 8% of zircon and ~4% of ilmenite global production
- Highly marketable products
- Average LOM annual EBITDA of $140 million ($187 million p.a. for first 10 years of production)
- Strong cash margins with leverage to multiple pricing cycles
- Modest development capital:
  $257 million plus $37 million contingency
- 2 year payback
- Considerable upside potential to be evaluated during 2014
- Targeting production commencement 2017



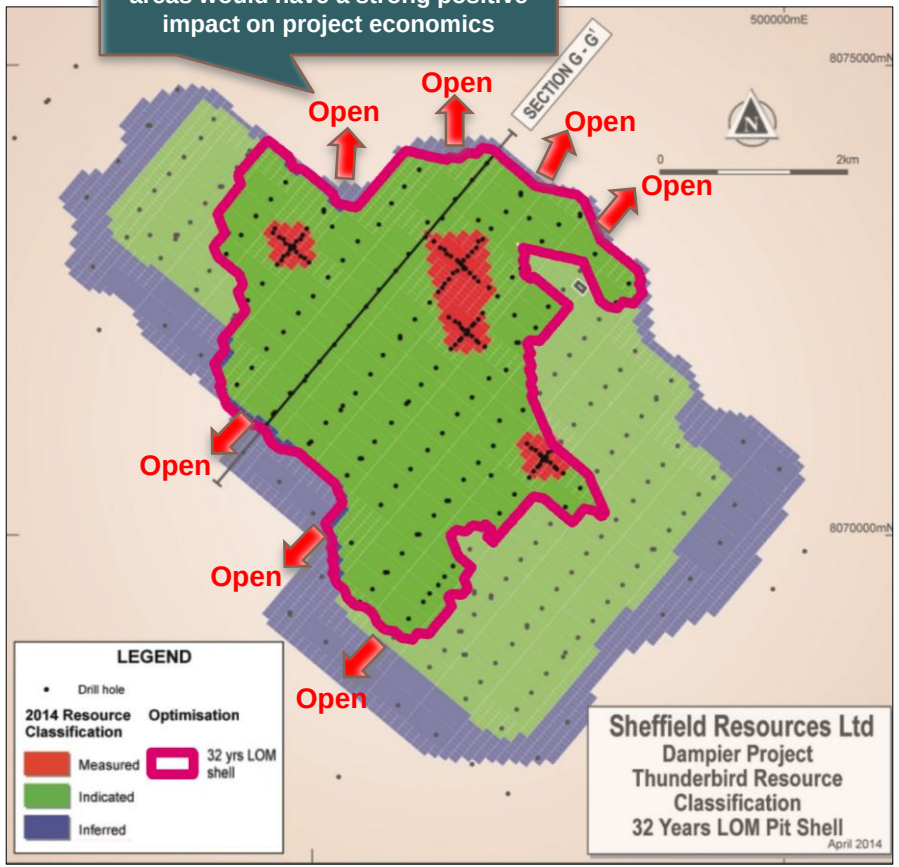
Thunderbird Scoping Study

MINING INVENTORY

- Mining inventory of **669Mt** @ **10.2% HM** (Measured & Indicated Resources only)
- In situ grades: **0.83% zircon**, 0.27% HiTi leucoxene, 0.26% leucoxene & **2.9% ilmenite**
- High grade Inferred Resources excluded from mining inventory
- Potential upside to be evaluated with drilling in Q3 2014



Discovery of additional high grade mineralisation in shallow up-dip areas would have a strong positive impact on project economics



Thunderbird Scoping Study

MINING

- Dry mining at 2,500tph rate with dozers and scrapers
- 2 large mining unit plants
- High grades and very low strip ratio (particularly in first 10 years)
- Mining commences in shallow northeast sector of deposit

Typical Dry Mining Mineral Sands Operation (source: Piacentini & Sons)

Long Life

THUNDERBIRD SCOPING STUDY
PHYSICALS

- Average annual production following ramp-up to a 20.8 Mtpa mining rate is estimated to be:
  - 118,200tpa zircon (135,100tpa in first 10 years)
  - 545,000tpa ilmenite
  - 21,700tpa HiTi80
- High grades and very low strip ratio in initial years

Average Mining Rate	mtpa	20.8
Mine Life	years	32
HMC Produced	ktpa	1,477
Production- Zircon	ktpa	118.2
Production-HiTi 80	ktpa	21.7
Production- Ilmenite	ktpa	545
Strip Ratio (average LOM)	waste:ore	0.6:1
Strip Ratio (first 10 years)	waste:ore	0.2:1

Thunderbird Projected Saleable Product Physicals

Modest Capex

THUNDERBIRD SCOPING STUDY
PRE-PRODUCTION CAPEX

Pre Production Capital Summary[1]	A$M
Local site infrastructure	43.05
Mining Units	22.9
Wet Concentrator Plant	39.8
Concentrate Upgrade Plant	8.8
Mineral Separation Plant	47.6
Process Water System	22.9
Off-site Infrastructure	19.0
Labour Indirects	4.5
EPCM	37.8
Contingency (15%)	36.9
Other Costs	10.9
TOTAL	**294.15**

Estimated Life of Mine sustaining capital is $158m (average of $4.9mpa)

1 Excludes estimated cost of PFS ($5m) and DFS ($10m)

Mineral sand prior to processing.

High Margin

THUNDERBIRD SCOPING STUDY
FINANCIALS

LOM revenue	A$m	10,010
Average Operating Cash Flow[1] (first 10 years)	A$mpa	204
Average Operating Cash Flow[1] (LOM)	A$mpa	156
EBITDA (first 10 years)	A$mpa	187
EBITDA	A$mpa	140
EBIT (first 10 years)	A$mpa	179
EBIT	A$mpa	126.4
EBIT Margin	A$/tonne product	183
Unit Revenue (average LOM)	A$/tonne product	457
Unit Cash Cost (exc. Royalties) (average LOM)	A$/tonne product	230
Royalties (average LOM)	A$/tonne product	22.8
Pre-production Capital	A$m	257.3
Pre-production Capital Contingency	A$m	36.9
Payback	Years	2.0

- Long life, strong margin project
- $140mpa EBITDA for 32 years
- Production scheduling delivers higher margins in first 10 years
- Modest Capex requirement
- Short capital payback period of 2 years

KEY ASSUMPTIONS

A$:US$ Exchange rate		0.90
Zircon Price	US$/tonne	1,475
Ilmenite Price	US$/tonne	185
HiTi 80 leucoxene Price	US$/tonne	870

1 Excluding taxes, royalties, closure costs, sale of capital equipment.

Premium Products

THUNDERBIRD MINERAL SANDS

CONVENTIONAL PROCESSING

- Metallurgical testwork on two bulk samples totalling 11 tonnes confirms mineralisation responds well to conventional processing techniques
- Slimes have low clay content – requiring low flocculant dosages
- 30 tonne bulk sample collected for further process refinement during PFS

HIGHLY MARKETABLE PRODUCTS

- Potential products assessed by TZMI & Ruidow
- Premium grade zircon suitable for ceramics (largest sector of zircon market)
- Primary ilmenite suitable for sulphate pigment process or sulphate or chloride slag (broad customer base)
- Primary ilmenite has low Cr_2O_3 and low alkalis – ideal blending feed
- Secondary ilmenite, 84% TIO_2, HiTi & rutile products suitable for welding rod market

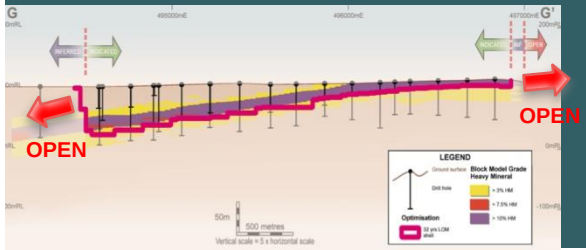
Wet table work on Thunderbird bulk sample

6 tonne sample processed at RJ Robbins laboratory, Brisbane

Key Focus

VALUE ENHANCEMENT OPPORTUNITIES IN 2014

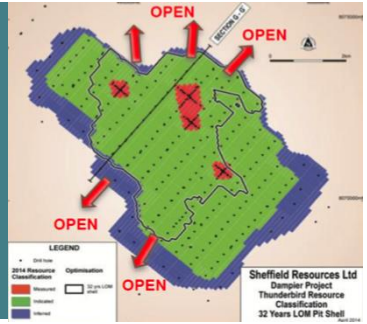
1. Exploration upside



Discovery of additional shallow high grade mineralisation could significantly enhance project economics – high priority for drilling

2. Optimise mining schedule

Infill drilling of up-dip areas will enable optimisation of mine scheduling in early production years



3. Enhancement of recoveries & process design

Further metallurgical testwork on 30t of bulk sample will target enhancement of recoveries and process design

4. Incremental step changes in mining rate

5. Leasing of mining units, mobile plant and equipment

6. Using locally sourced gas for power generation

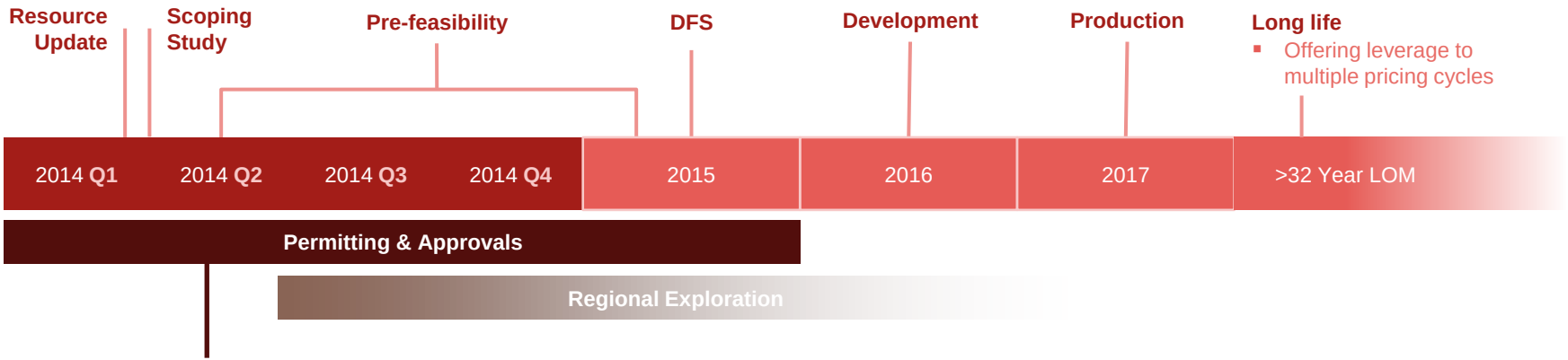
7. Production of an ilmenite product and a non-magnetic concentrate to simplify processing and lower Capex

8. Dredge mining

2014 To Be A Defining Year For Sheffield

Upcoming 2014 Milestones Will Drive Shareholder Value

- Drilling to target extensions of shallow, high grade mineralisation that remain open
- Resource Update Q4 2014
- Scoping Study Optimisation Q4 2014
- Regional Exploration
- Mine Planning Studies
- Permitting & Approvals
- Drilling Pilbara Iron and Red Bull Nickel in Q2 2014



Environmental Studies Well Advanced

- Level 2 Flora and Fauna surveys completed
- Site groundwater studies to be undertaken during PFS 2014

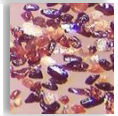
Conclusion

A New Tier 1 HMS Project

Long Life

High Margin

Premium Product



Tier 1 Project

- World class, large scale, long life project
- High estimated cash margins with leverage to multiple pricing cycles
- Modest estimated development capital with 2 year payback
- Globally significant projected production levels of zircon and ilmenite
- Highly marketable product suite
- Outstanding upside opportunities to be pursued during 2014

Disclaimer

PREVIOUSLY REPORTED INFORMATION
This report includes information that relates to Exploration Results which were prepared and first disclosed under the JORC Code 2012. The information was extracted from the Company's previous ASX announcements as follows:

"SHEFFIELD DOUBLES TOTAL MINERAL RESOURCES AT WORLD CLASS THUNDERBIRD HMS DEPOSIT", 19 March 2014
"SCOPING STUDY HIGHLIGHTS THUNDERBIRD'S EXCEPTIONAL FINANCIAL RETURNS", 14 April 2014

This report also includes information that relates to Mineral Resources which were prepared and first disclosed under the JORC Code 2004. The information has not been updated since to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported. The information was extracted from the Company's previous ASX announcements as follows:

- "1MT CONTAINED HM INFERRED RESOURCE AT ELLENGAIL", 25 October 2011
- "WEST MINE NORTH MINERAL RESOURCE ESTIMATE EXCEEDS EXPECTATIONS", 7 November 2011
- "4.4 BILLION TONNE MAIDEN RESOURCE AT MCCALLS HMS PROJECT", 20 February 2012.
- "ENEABBA PROJECT RESOURCE INVENTORY EXCEEDS 5MT HEAVY MINERAL", 28 August 2012
- "LARGE HIGH GRADE MAIDEN RESOURCE FOR THUNDERBIRD HMS DEPOSIT", 18 December 2012
- "YANDANOOKA RESOURCE UPGRADE AND METALLURGICAL RESULTS", 30 January 2013.
- "1Mt HEAVY MINERAL RESOURCE ADDED TO ENEABBA PROJECT", 30 October 2013

These announcements are available to view on Sheffield Resources Ltd's website www.sheffieldresources.com.au

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and, in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement

.

FORWARD LOOKING STATEMENTS

Some statements in this report regarding estimates or future events are forward-looking statements. They include indications of, and guidance on, future earnings, cash flow, costs and financial performance. Forward-looking statements include, but are not limited to, statements preceded by words such as "planned", "expected", "projected" "estimated" "may", "scheduled", "intends", "potential", "could" "nominal" "conceptual" and similar expressions. Forward looking statements, opinions and estimates included in this announcement are based on assumptions and contingencies which are subject to change without notice, as are statements about market and industry trends, which are based on interpretations of current market conditions. Forward looking statements are provided as a general guide only and should not be relied on as a guarantee of future performance. Forward looking statements may be affected by a range of variables that could cause actual results to differ from estimated results.

The Company believes it has a reasonable basis for making the forward looking statements in this report, including with respect to any production targets, based on the information contained in the announcement "SCOPING STUDY HIGHLIGHTS THUNDERBIRD'S EXCEPTIONAL FINANCIAL RETURNS", dated 14 April 2014, and with respect to the Mineral Resource for Thunderbird as at 19 March 2014, independently compiled by QG Pty Ltd, together with independent metallurgical, processing design, engineering, mining and marketing studies, product quality assessment, external commodity price and exchange rate forecasts and global operating cost data.

In this report the term "mining inventory" is used to report that part of the Mineral Resource that has been considered in the Scoping Study. The mining inventory does not meet the requirements of an Ore Reserve as defined under the 2012 edition of the JORC Code and should not be considered an Ore Reserve. There is no certainty that all or any part of the mining inventory will be converted into Ore Reserves.

For further information please contact:

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info@sheffieldresources.com.au

Sheffield Resources LIMITED

Appendices

Appendix 1: Other Projects

(PROJECTS ALL 100% SFX)

Dampier - HMS
Flagship - Thunderbird Total Resource
2.62Bt @ 6.5% HM (170Mt HM)[1]
including 738Mt @ 12.1% HM

North Pilbara Iron
High grade DSO target

Eneabba - HMS
Strategic resource base

McCalls HMS
Very large chloride
ilmenite deposit

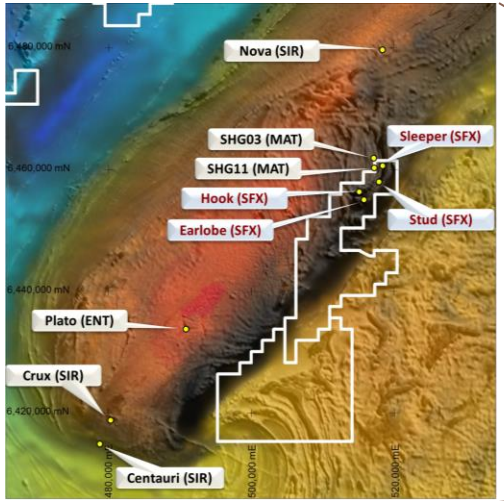
Red Bull
Ni-Cu targets in Fraser Range

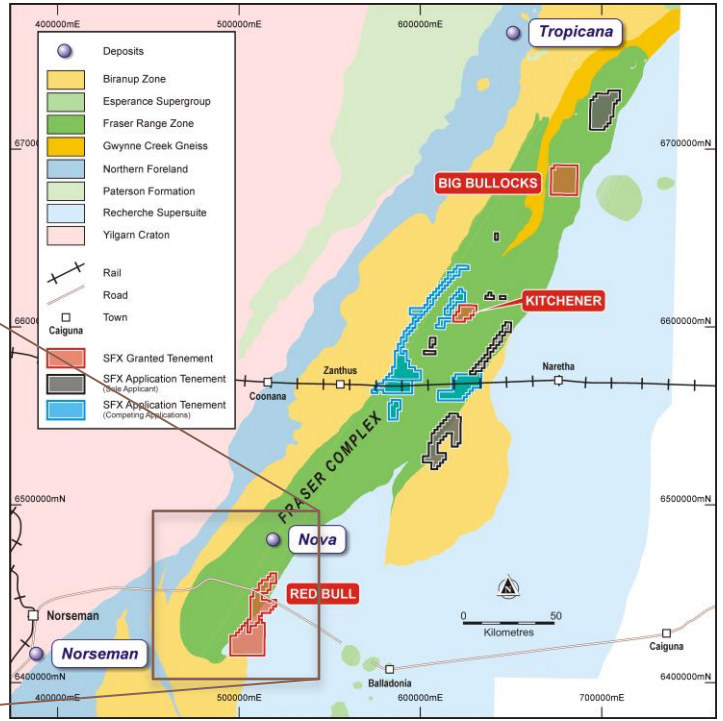
[1] Refer to Appendices 3 & 4

Large Footprint in Fraser Range

EMERGING NICKEL PROVINCE

- 2,420km^2 tenement holding in Fraser Range
- 17 tenements (13 under application)
- Red Bull project is within 20km of Sirius' Nova deposit and near emerging prospects



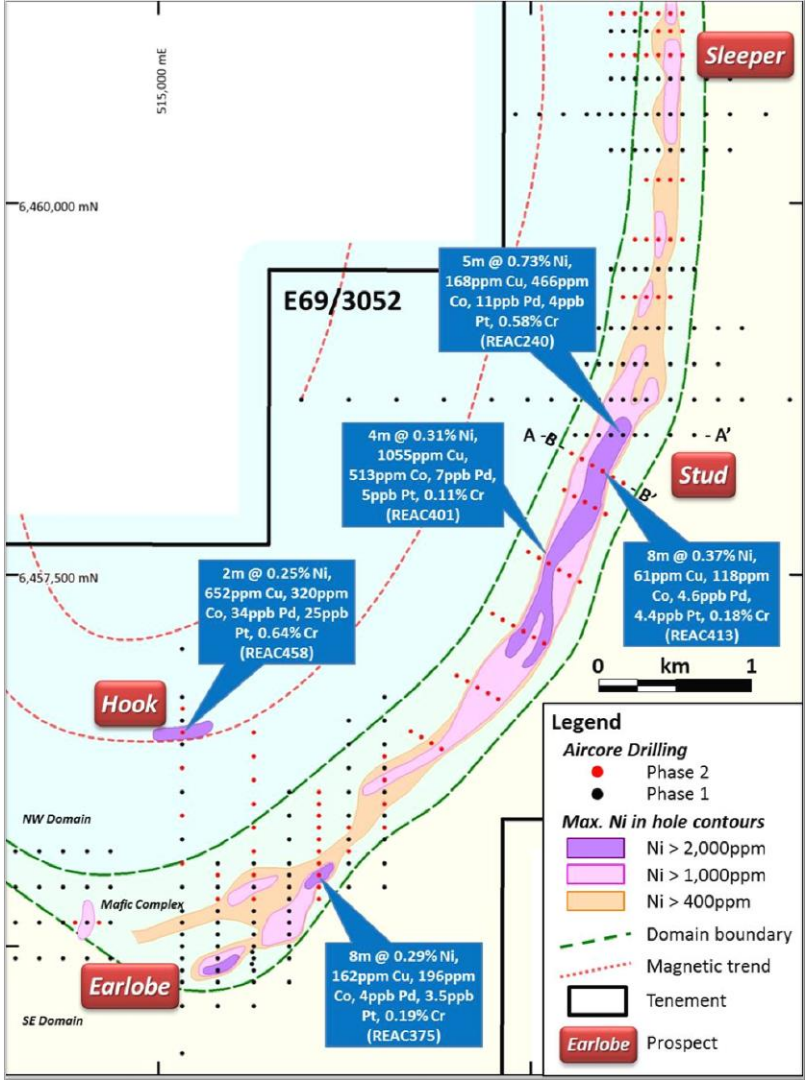


Red Bull tenements & Ni prospects on gravity image

Red Bull Nickel

DRILLING NICKEL TARGETS Q2 2014

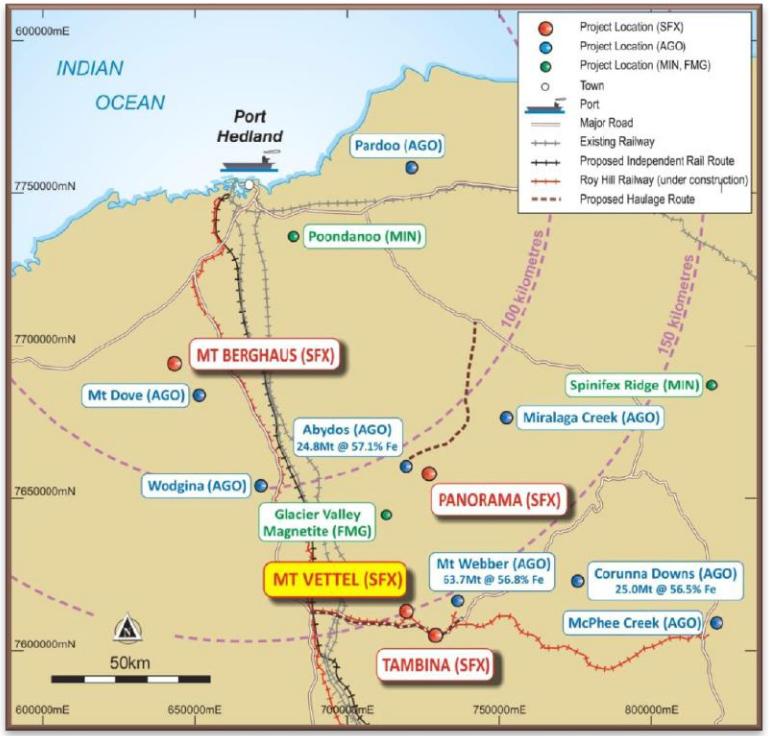
- Sheffield's current nickel exploration focus is the Northern Targets at Red Bull
- Aircore drilling through shallow conductive cover has outlined several Ni-Cu-Co anomalies
- Stud anomaly strike length 1.8km at 0.2% Ni cut-off, best **5m @ 0.73% Ni**
- New Ni-Cu-Co (PGE, Cr) anomaly identified at Hook prospect
- Program of works in Q2 2014 prior to deeper drilling of targets:
  - Soil sampling over Hook strike trend
  - Next phase aircore drilling
  - Ground geophysical surveys



North Pilbara Iron

DRILLING DSO TARGET Q2 2014

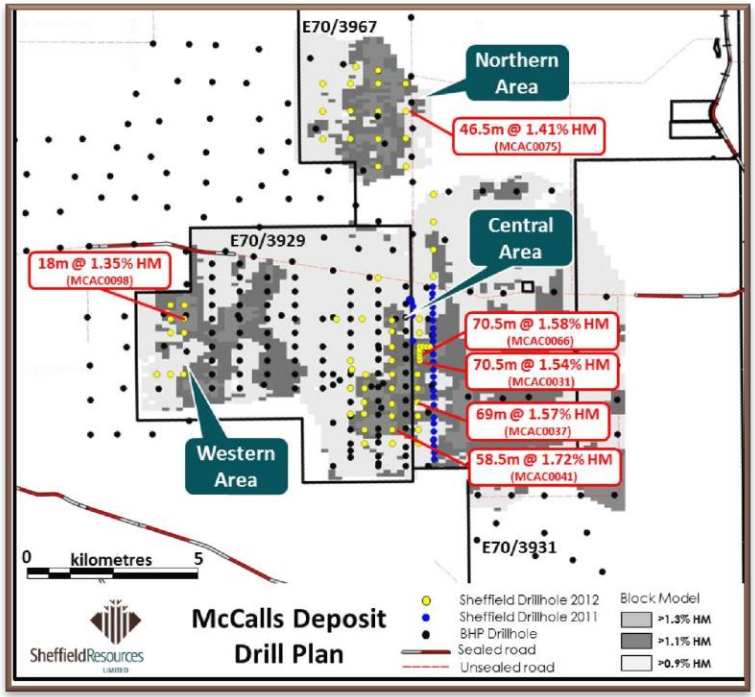
- Targeting DSO on 4 granted exploration licenses in North Pilbara
- Tenements strategically located
- High-grade outcropping iron mineralisation identified at Panorama and Mt Vettel
- Mt Vettel high-grade DSO target:
  - Average 61.2% Fe from 37 samples
  - Very low contaminant levels
- Maiden drilling programme scheduled for Q2 2014



McCalls Mineral Sands

GLOBAL SCALE CHLORIDE ILMENITE DEPOSIT

- Mineral Resource 4.4Bt @ 1.2% HM (53Mt HM)[1]
- Mineral assemblage includes: 80.8% ilmenite at 66% TiO_2
- Evaluating as a potential dredge project
- 2012 drilling results highlight central area as having higher grade, lower slimes and greater thickness
- Awaiting new QEMSCAN mineral assemblage results
- Resource update scheduled mid-2014

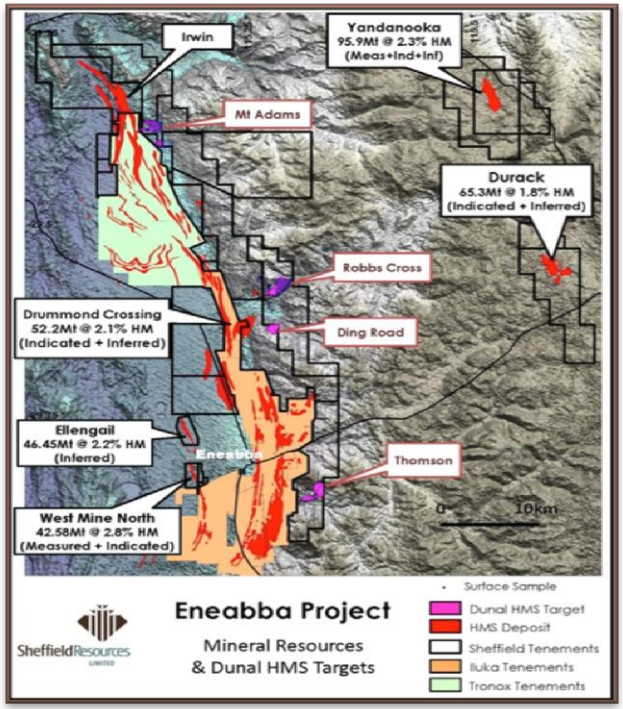


1 Refer to Appendices 3 & 4.

Eneabba Mineral Sands

STRATEGIC RESOURCE BASE

- Total Mineral Resources: 302Mt @ 2.2% HM (6.76Mt HM)[1]
- Comprising 5 deposits, each with over 1Mt contained HM
- Established mining district
- Adjacent to Tronox's Dongara project
- Considerable exploration upside – 4 new dunal HM targets
- Dual deposits have minimal overburden and have a high value assemblage (e.g. Drummond Crossing 14% zircon, 10% rutile)



1 Refer to Appendices 3 & 4.

Appendix 2: Thunderbird Product Specifications

PRIMARY ZIRCON SPECIFICATIONS

ZrO_2 %	Fe_2O_3 %	TiO_2%	Al_2O_3%	P_2O_5%
66.2	0.05	0.09	0.10	0.14

PRIMARY ILMENITE SPECIFICATIONS

TiO_2 %	FeO %	Fe_2O_3 %	SiO_2 %	Al_2O_3%	Cr_2O_3 %	ZrO_2 %
50.1	8.0	36.4	1.6	0.3	0.05	0.00

HiTi80 SPECIFICATIONS

TiO_2 %	Fe_2O_3 %	SiO_2 %	Al_2O_3%	Cr_2O_3 %	ZrO_2 %	MgO
84.4	9.2	2.6	0.7	0.08	0.6	<0.01

Appendix 3: Resource Inventory

SHEFFIELD'S CONTAINED VALUABLE HM (VHM)*
RESOURCE INVENTORY AT 19 MARCH 2014

Deposit	Resource Category	Zircon ('000t)	Rutile ('000t)	HiTi Leuc. ('000t)	Leuc. ('000t)	Ilmenite ('000t)	Total VHM ('000t)
Thunderbird	Measured	510	-	150	140	1,660	**2,450**
Thunderbird	Indicated	10,170	-	3,350	3,550	34,110	**51,170**
Thunderbird	Inferred	3,600	-	1,230	1,470	12,110	**18,420**
Yandanooka	Measured	13	2	-	3	87	**105**
Yandanooka	Indicated	240	81	-	83	1,440	**1,840**
Yandanooka	Inferred	4	1	-	2	23	**29**
Durack	Indicated	144	29	-	52	703	**928**
Durack	Inferred	26	5	-	13	121	**164**
Drummond Crossing	Indicated	143	101	-	37	542	**823**
Drummond Crossing	Inferred	7	5	-	1	28	**41**
Ellengail	Inferred	92	90	-	19	658	**859**
West Mine North	Measured	18	33	-	42	200	**293**
West Mine North	Indicated	71	87	-	46	506	**709**
McCalls	Inferred	3,490	1,060	-	2,580	42,910	**50,040**
Total	Measured	540	35	150	180	1950	**2,850**
Total	Indicated	10,770	300	3,350	3,760	37,300	**55,470**
Total	Inferred	7,220	1,160	1,230	4,080	55,850	**69,550**
Total	**All**	**18,530**	**1,500**	**4,730**	**8,020**	**95,100**	**127,870**

All tonnages have been rounded to reflect the relative uncertainty of the estimate, thus sum of columns may not equal. The contained VHM tonnages in the above table are derived from Mineral Resource Estimates for the Yandanooka, Ellengail , West Mine North, McCalls, Durack deposits (estimated using a 0.9% HM cut-off), the Drummond Crossing deposit (estimated using a 1.1% HM cut-off) and the Thunderbird deposit (estimated using a 3% HM cut-off) detailed in Appendix 7. * Valuable Heavy Minerals are classified as zircon, rutile, HiTi leucoxene, leucoxene and ilmenite. See the compliance statements at the beginning of this presentation for important information relating to the reporting of these Mineral Resources.

Appendix 4: HMS Mineral Resource[1]

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Project	Deposit	Resource Category	Cut-off (% HM)[3]	Material (Mt)*	Bulk Density	HM %	Slimes %[3]	Osize %	In-situ HM (Mt)*	Zircon[2] %	Rutile[2] %	HiTi Leuc. %[2]	Leuc.[2] %	Ilmenite[2] %
DAMPIER	Thunderbird	Measured	3.0	75	2.1	7.5	19	11	6	9.1	-	2.7	2.4	30
	Thunderbird	Indicated	3.0	1805	2.1	6.8	17	9	122	8.3	-	2.7	2.9	28
	Thunderbird	Inferred	3.0	740	2.0	5.7	15	9	42	8.5	-	2.9	3.5	29
	Total Dampier	**Total**	**3.0**	**2,620**	**2.1**	**6.5**	**17**	**9**	**170**	**8.4**	**-**	**2.8**	**3.0**	**28**
ENEABBA	Yandanooka	Measured	0.9	3	2.0	4.1	15	14	0.1	11	1.9	-	2.2	72
	Yandanooka	Indicated	0.9	90	2.0	2.3	16	15	2.1	11	3.9	-	3.9	69
	Yandanooka	Inferred	0.9	3	2.0	1.2	18	21	0.03	11	3.9	-	4.6	68
	Yandanooka	Total	0.9	96	2.0	2.3	16	15	2.2	11	3.8	-	3.9	69
	Durack	Indicated	0.9	50	2.0	2.0	15	21	1.0	14	2.8	-	5.1	69
	Durack	Inferred	0.9	15	1.9	1.2	14	17	0.2	14	2.5	-	7.2	66
	Durack	Total	0.9	65	2.0	1.8	15	20	1.2	14	2.8	-	5.6	68
	Drummond Crossing	Indicated	1.1	49	2.0	2.1	16	9	1.0	14	10	-	3.6	53
	Drummond Crossing	Inferred	1.1	3	2.0	1.5	16	8	0.05	13	10	-	2.8	55
	Drummond Crossing	Total	1.1	52	2.0	2.1	16	9	1.1	14	10	-	3.5	53
	Ellengail	Inferred	0.9	46	2.0	2.2	16	2	1.0	8.9	8.7	-	1.9	64
	Ellengail	Total	0.9	46	2.0	2.2	16	2	1.0	8.9	8.7	-	1.9	64
	West Mine North	Measured	0.9	6	2.0	5.6	15	1	0.4	4.9	9.1	-	12	55
	West Mine North	Indicated	0.9	36	1.9	2.3	13	3	0.8	8.4	10	-	5.4	60
	West Mine North	Total	0.9	43	1.9	2.8	13	3	1.2	7.9	10	-	6.4	59
	Total	Measured	Var.	9	2.0	5.2	15	5	0.5	6.7	6.8	-	8.7	60
	Total	Indicated	Var.	225	2.0	2.2	15	13	5.0	12	6.0	-	4.4	64
	Total	Inferred	Var.	68	2.0	1.9	15	6	1.3	10	7.2	-	3.2	64
	Total Eneabba	**All**	**Var.**	**302**	**2.0**	**2.2**	**15**	**11**	**6.8**	**12**	**6.3**	**-**	**4.2**	**64**
MCCALLS	McCalls	Inferred	0.9	4,431	2.3	1.2	27	1.4	53	6.6	2.0	-	4.9	81
	Total McCalls	**All**	**0.9**	**4,431**	**2.3**	**1.2**	**27**	**1.4**	**53**	**6.6**	**2.0**	**-**	**4.9**	**81**

* All tonnages and grades have been rounded to reflect the relative uncertainty of the estimate and maintain consistency throughout the table, thus sum of columns may not equal. 1 See the compliance statements at the beginning of this presentation for important information relating to the reporting of these Mineral Resources. 2 The Mineral Assemblage is represented as the percentage of the Heavy Mineral (HM) component of the deposit, determined by QEMSCAN for Eneabba & McCalls, with TiO2 minerals defined according to the following ranges: Rutile >95% TiO2; Leucoxene 85-95% TiO2; Ilmenite <55-85% TiO2; for Dampier the mineral assemblage was determined by screening and magnetic separation. Magnetic fractions were analysed by QEMSCAN for mineral determination as follows: Ilmenite: 40-70% TiO2 >90% Liberation; Leucoxene: 70-94% TiO2 >90% Liberation; High Titanium Leucoxene (HiTi Leucoxene): >94% TiO2 >90% Liberation; and Zircon: 66.7% ZrO2+HfO2 >90% Liberation. Non-magnetic fractions were submitted for XRF analysis and minerals determined as follows: Zircon: ZrO2+HfO2/0.667 and High Titanium Leucoxene (HiTi Leucoxene): TiO2/0.94. 3 West Mine North, Drummond Crossing, Durack and McCalls deposits are reported below 35% slimes cut-off.