

SHEFFIELD RESOURCES LTD ASX:SFX

RIGHT PLACE, RIGHT TIME



**Annual General Meeting
28 November 2011**

COMPETENT PERSONS & FORWARD LOOKING STATEMENTS

COMPETENT PERSONS' STATEMENT – EXPLORATION RESULTS

The information in this presentation that relates to exploration results has been compiled by Bruce McQuitty and David Archer. Each of Mr McQuitty and Mr Archer has consented to the inclusion of this information in this Section of this Web Site in the form and context in which it is included. Mr McQuitty and Mr Archer are geologists with over 20 years experience. Both Mr McQuitty and Mr Archer is a Member of the Australasian Institute of Geoscientists and has the appropriate relevant qualifications, experience, competence and independence to be considered as an “Expert” and “Competent Person” as defined in the 2004 Edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (“JORC Code”)’.

COMPETENT PERSONS' STATEMENT – RESOURCE ESTIMATES

The information in this presentation that relates to resource estimation is based on information compiled under the guidance of John Vann. Mr Vann is a Principal of Quantitative Group and acts as a consultant to the Company. Mr Vann is a Fellow of the Australasian Institute of Mining and Metallurgy and a Fellow of the Australasian Institute of Geoscientists 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 Vann consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.

The information in this presentation that relates to reporting of resource and exploration results is based on information compiled under the guidance of Mark Teakle. Mr Teakle is a consultant to 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” and similar expressions.



CORPORATE SNAPSHOT

Cash Position \$3.3m (at 30/9/2011)

Capital Structure

Market Cap	\$17m (undiluted, at 29cps)
Shares	58.7m
Options	27.2m (20c, 30/06/13)
	4.6m (30c, 30/11/13 & 13/12/15)
	1.3m (44c, 6/9/14, 20/03/16, 30/6/16)

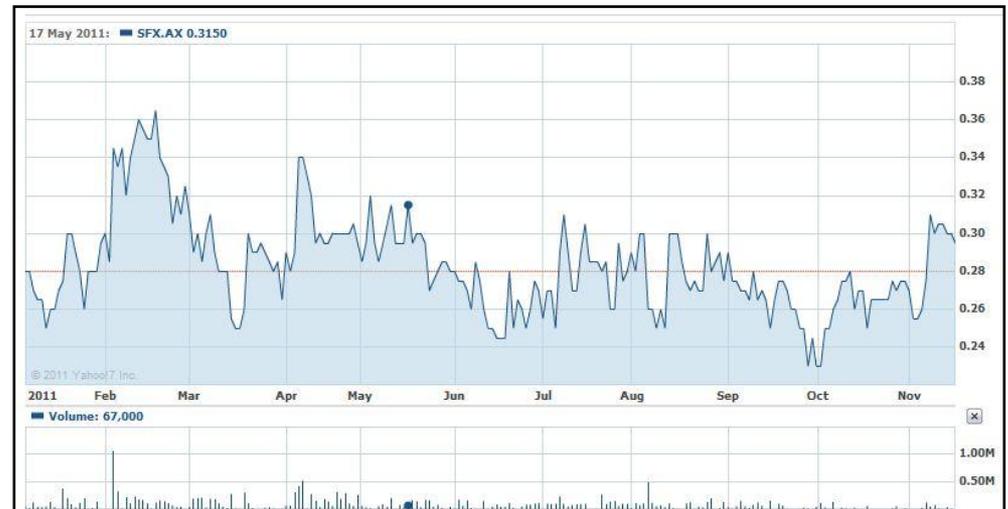
Cash Backing ~ 6cps

Major Shareholders

Directors	26%
Cappig Finance	3%
Top 20	45%

Board & Management

Will Burbury	Chairman
Bruce McQuitty	Managing Director
David Archer	Technical Director
David Boyd	Exploration Manager





YEAR IN REVIEW

- ASX Listed on 15 December 2010 after oversubscribed IPO
- Recruited high quality operations team
- Acquisition of 3 HMS projects
- Mineral Resources for 3 HMS projects in North Perth Basin
- Scoping work commenced
- Dampier identified as potential company-making zircon project
- New mineral sands discoveries in North Perth Basin
- Large DSO iron target identified at Three Pools
- High purity talc confirmed at Moora Talc Belt project

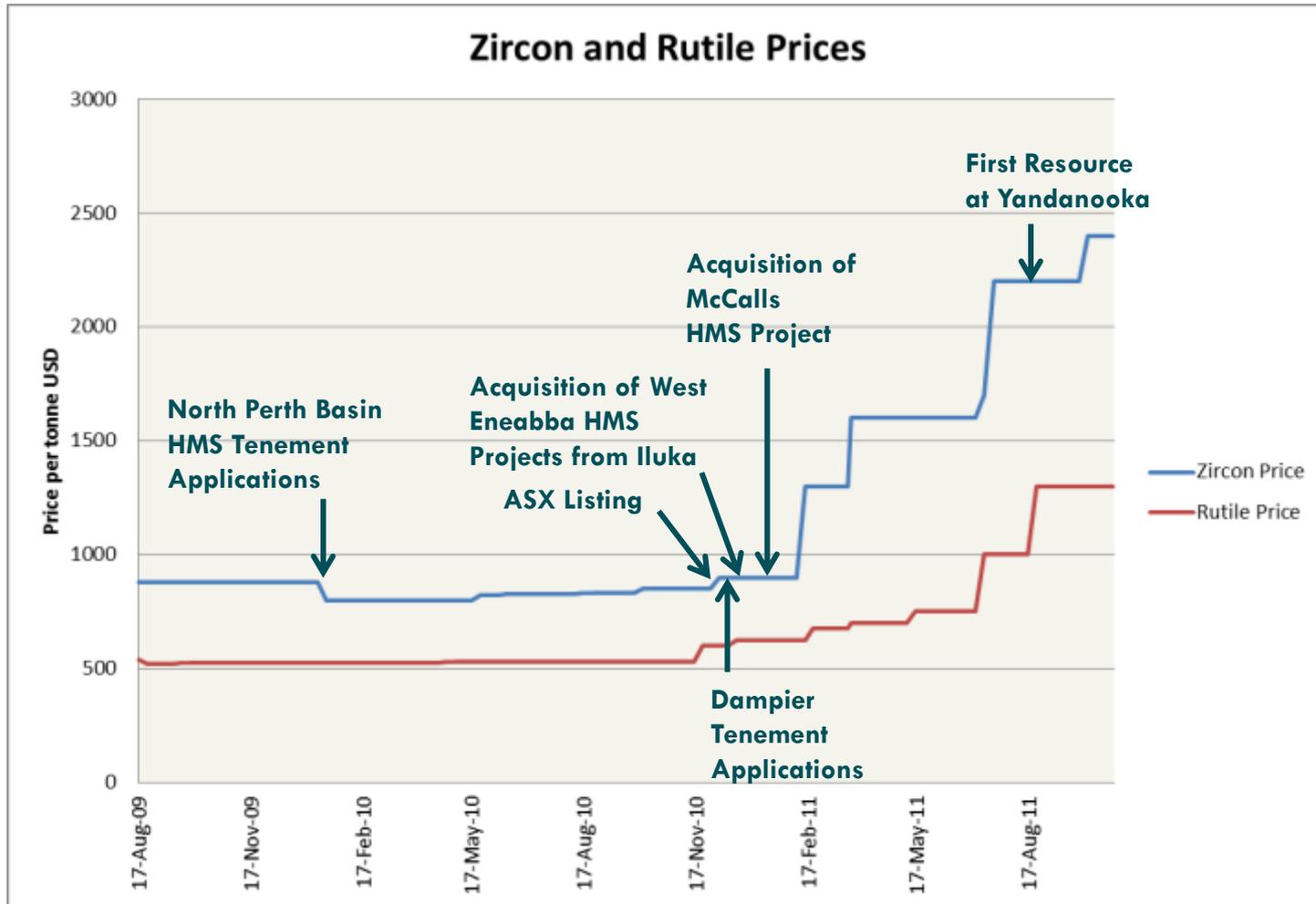
PROJECT SUMMARY

HMS TIER 1	<ul style="list-style-type: none"> Dampier Zircon: Exploration Target¹ of 450-850Mt @ 5-10% HM McCalls High TiO₂ Ilmenite: Exploration Target¹ of 1.5Bt-2.5Bt @ 1.1-1.3% HM
HMS TIER 2	<ul style="list-style-type: none"> Multiple projects in North Perth Basin Resource inventory totals 4.1Mt HM² Scoping work commenced, drilling continues
IRON ORE	<ul style="list-style-type: none"> East Pilbara focus for exploration and consolidation Exploration Target¹ of 20-60Mt @ 58-64% Fe (Three Pools)
TALC	<ul style="list-style-type: none"> Moora Talc Belt: premium talc “Dig & Deliver” opportunity

¹Sheffield Resources has not yet reported Mineral Resources at McCalls, Dampier and Three Pools and any discussion in relation to targets and Mineral Resources is conceptual in nature. There has been insufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource. For further details refer to ASX releases of 17 January 2011, 27 July 2011 and 8 November 2011.

²Refer to Sheffield’s Mineral Resources Tabulation in Appendix 1. Previous releases by Sheffield on 16/8/2011, 25/10/2011 and 7/11/2011 fully report the Mineral Resource Estimates for the Yandanooka, Ellengail and West Mine North deposits.

SEIZING THE OPPORTUNITY

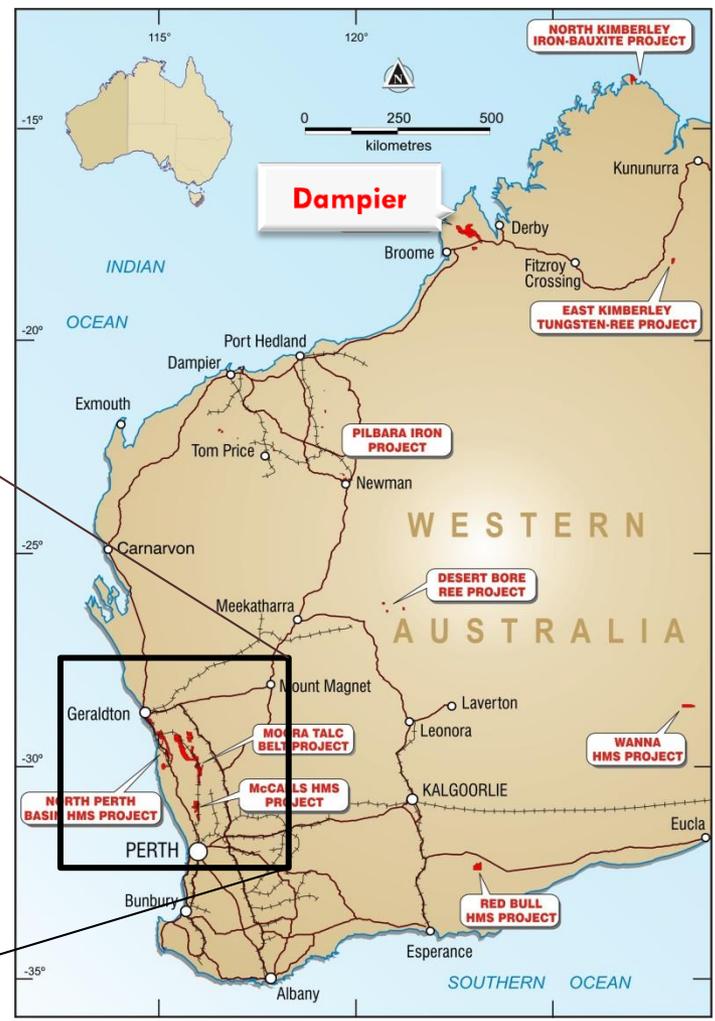
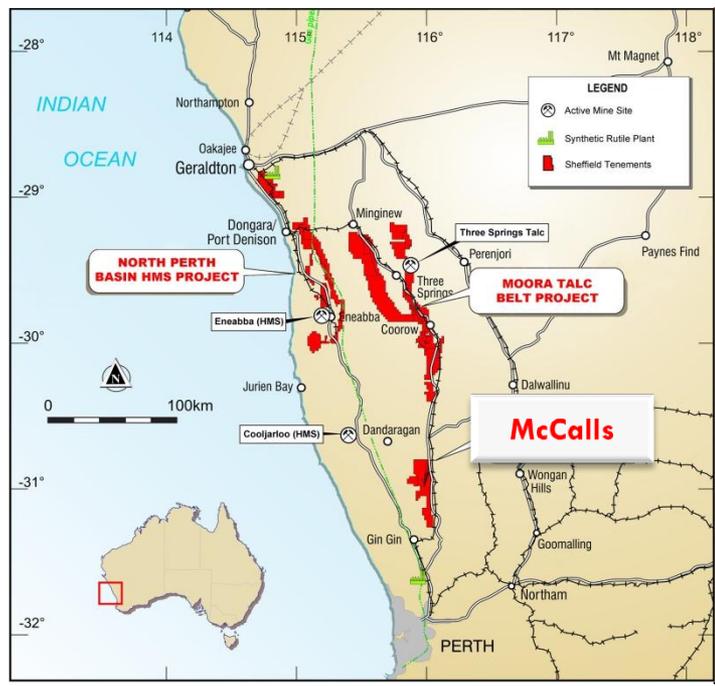


(Pricing data compiled by Sheffield from various open file sources)



PROJECT LOCATIONS

- Over 6,000km² of tenure in WA
- Large consolidated tenement holdings
- Focus on regions with infrastructure advantages



MINERAL SANDS USES & MARKETS

Two distinct product streams:

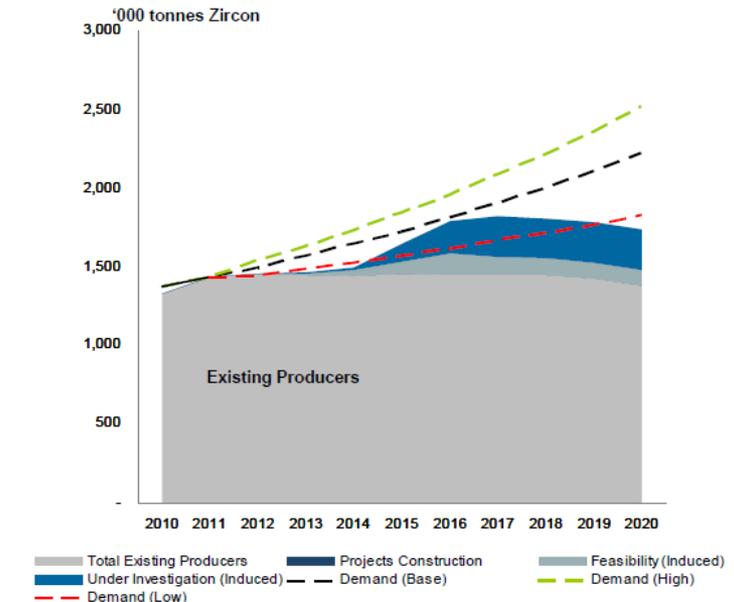
Zircon (\$2,400-\$2,600/t)

- Main use in the manufacture of ceramics and refractory linings
- Global market 1.4Mtpa
- Acute shortage of supply

Titanium Minerals

- Rutile: >95% TiO_2 (\$1,300-\$1,400/t)
- Leucoxene: 85-95% TiO_2 (current spot ~\$700/t)
- Altered ilmenite: 55-85% TiO_2 (~\$140-\$200/t)
- Ilmenite <55% TiO_2
- Main use in pigment production for paint, coatings, plastics, titanium metal
- Global market ~6Mtpa also experiencing shortage of supply

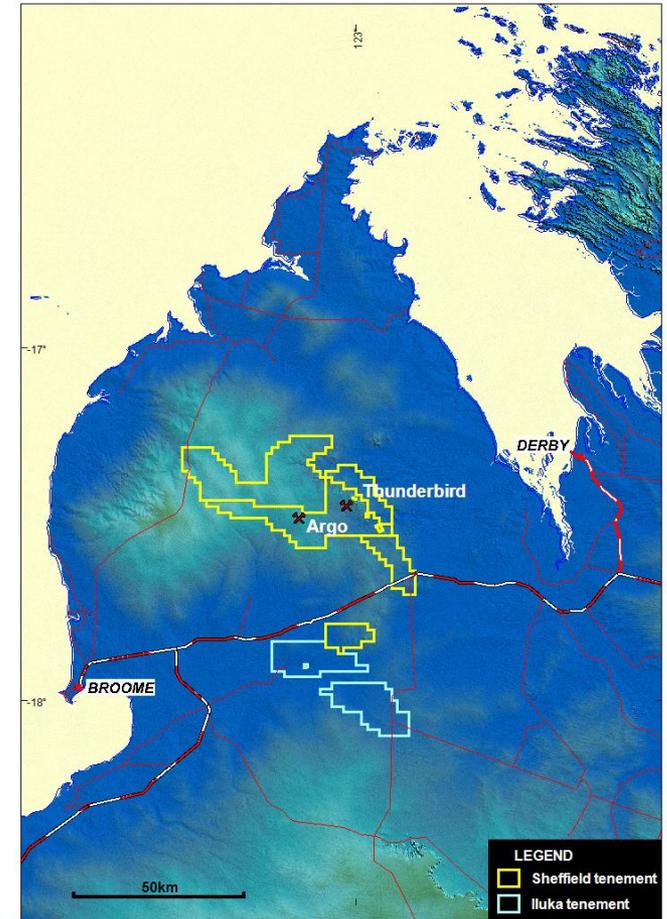
Zircon Supply and Demand (including induced projects)



Iluka analysis - excludes Iluka's enhanced production initiatives
Source: Iluka Resources Mineral Sands Briefing Session, ASX release 17 Nov 2011.

DAMPIER

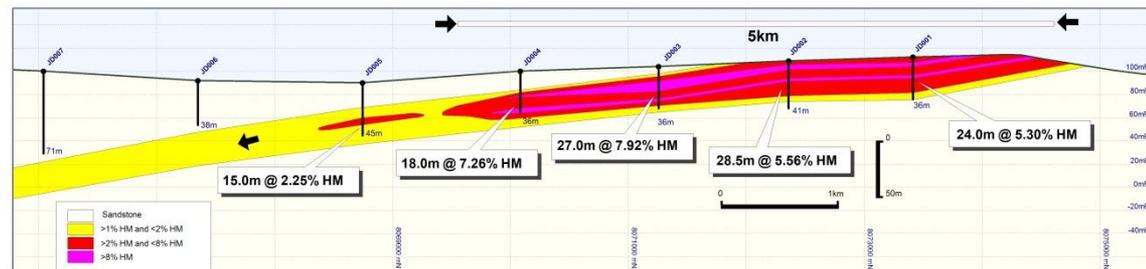
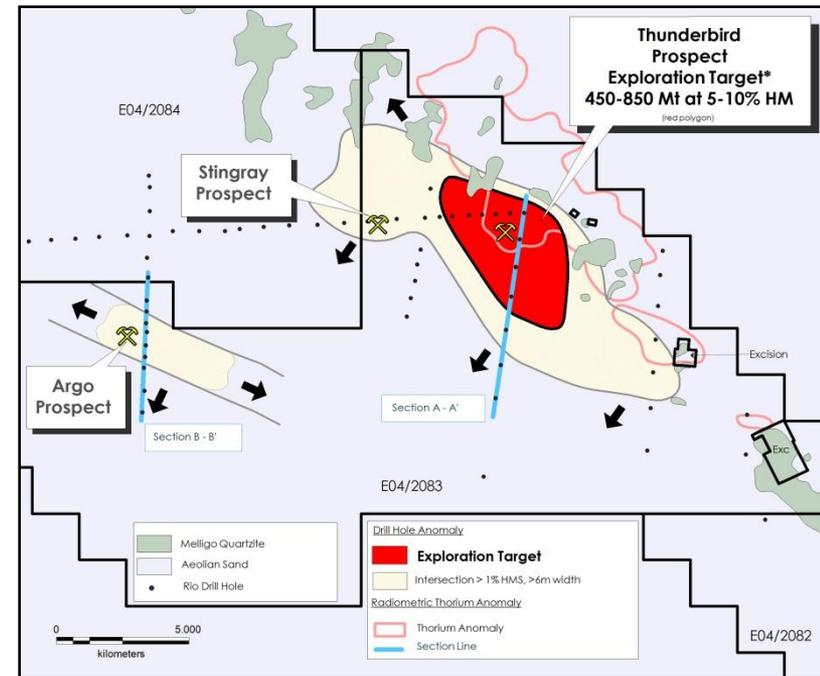
- Ranks in top tier of undeveloped Zircon projects
- Exploration Target¹ of 450-850Mt @ 5.0-10.0% HM (Thunderbird)
- Mineral assemblage includes 8% Zircon
- Located 60km west of Derby port
- Ex Rio Tinto project, dropped during GFC
- Located on Crown Land (pastoral lease) outside Kimberley Heritage areas



¹Sheffield Resources has not yet reported Mineral Resources for the Dampier project and any discussion in relation to targets and Mineral Resources is conceptual in nature. There has been insufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource. For further details refer to ASX release of 8 November 2011.

DAMPIER

- Exploration Target¹ of 450-850Mt @ 5.0-10.0% HM applies to core of Thunderbird prospect
- Based on 8 drill intersections including:
45m @ 9.85% HM from 3m (JD073),
27m @ 7.00% HM from 1.5m (JD023), and
27m @ 7.92% HM from 9m (JD003)
- Dimensions 6 x 5 km, av. width 24.5m
- Drilling and thorium anomaly indicate potential for up to 15km of strike length
- Further potential: Argo prospect
- Drilling planned mid-2012



¹Sheffield Resources has not yet reported Mineral Resources for the Dampier project and any discussion in relation to targets and Mineral Resources is conceptual in nature. There has been insufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource. For further details refer to ASX release of 8 November 2011.

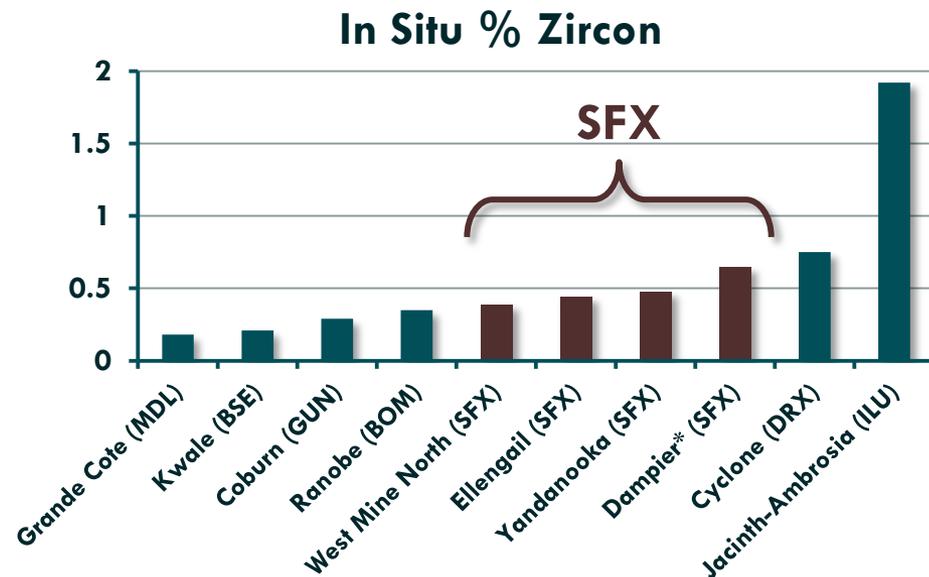
DAMPIER

- High average in situ zircon content of 0.63% from RIO drilling*
- Hosted by deeply weathered Cretaceous sediments
- Fine grain size of HM (D_{50} 62 μ m) and iron cementation may present some recovery issues
- However high zircon content should offset recovery losses



Zircon tail

Cleaner stage gravity separation of HM on bulk sample from the Argo prospect. Source: Combined Annual Report (C96/2003 Mt Jowlaenga) for the Period 21 July 2007 to 20 July 2008 Rio Tinto Exploration Pty Ltd.



*The Dampier in situ zircon content is derived by multiplying the weighted average HM content (7.9%) of 8 RIO drill hole intersections by the average zircon content (8%) of the mineral assemblage. RIO's bulk sample metallurgical testwork indicates the zircon content of the HM assemblage could be higher at 11.7%. Refer to ASX release of 7 September 2001 for further details.

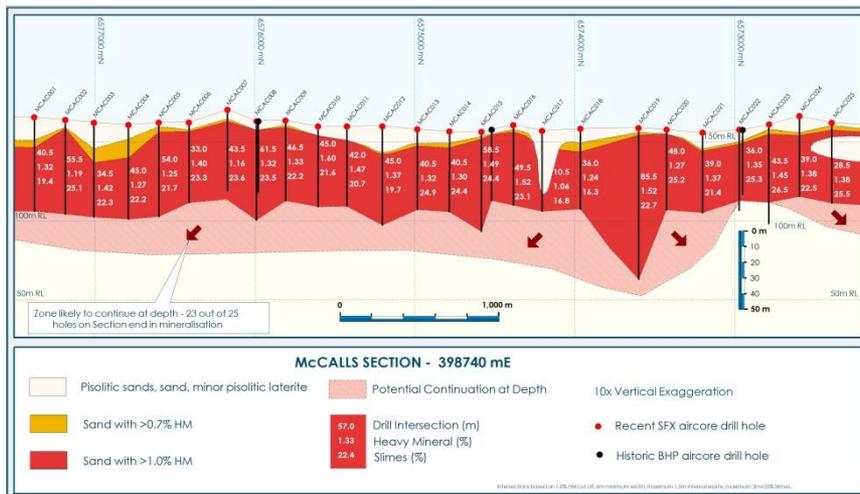
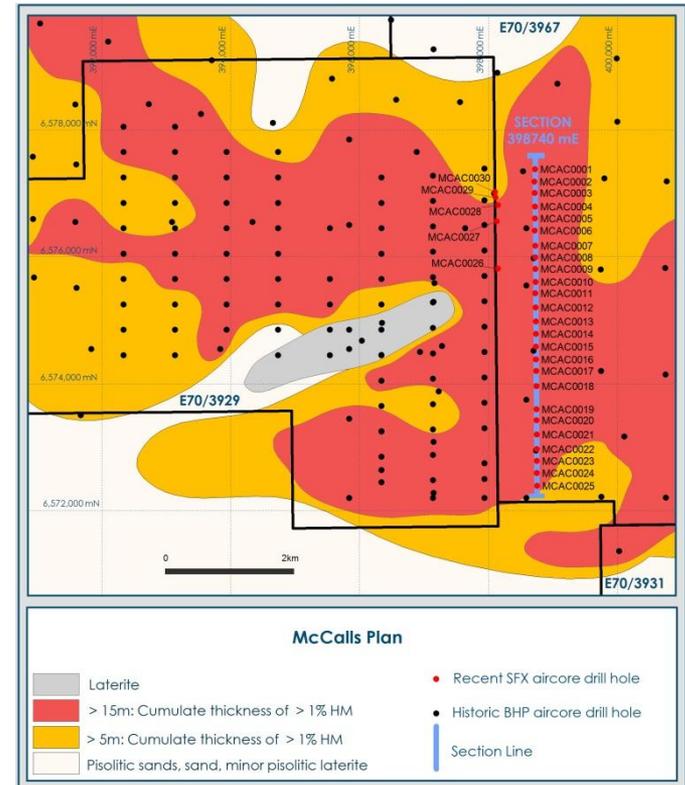
The West Mine North in situ zircon content relates to the Measured & Indicated Resource for the high grade strand of 10.09Mt @ 7.7% HM for 779,000t of contained HM (ASX release 7 November 2011).

The Ellengail in situ zircon content relates to the Inferred Resource for the high grade core of 11.25Mt @ 5.0% HM for 560,000t contained HM (ASX release 25 October 2011).

The Yandanooka in situ zircon content relates to the Indicated Resource for the high grade core of 37.5Mt @ 3.8% HM for 1.41Mt of contained HM (ASX release 16 August 2011).

MCCALLS

- Large high TiO₂ ilmenite project
- Drilled by BHP in early 1990s
- Exploration Target¹ of **1.5-2.5 billion tonnes @ 1.1-1.3% HM**
- Sheffield's drilling improved on BHP's results:
 - Thicker (av. 44m thick)
 - Higher grade (av. 1.35% HM)
- Resource estimate due Q4 2011

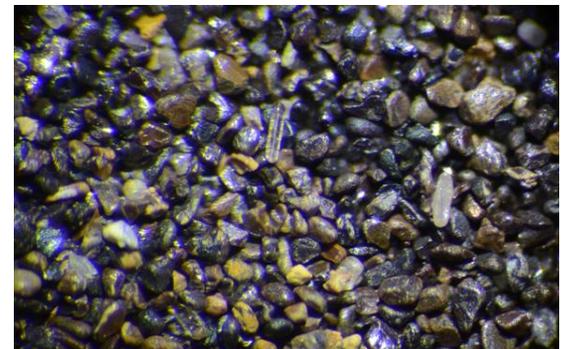


¹Sheffield Resources has not yet reported Mineral Resources at McCalls and any discussion in relation to targets and Mineral Resources is conceptual in nature. There has been insufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource. For further details refer to ASX release of 17January 2011.

- BHP's work indicates mineral assemblage of: ilmenite 74.2% (@ 62.6% TiO₂), zircon 4.37%, rutile 0.52% and leucoxene 4.08%
- Sheffield's preliminary metallurgical testwork confirmed high TiO₂ content of ilmenite
- Higher value ilmenite, potentially suitable for chloride route / synthetic rutile processing
- Sources of chloride ilmenite are relatively scarce globally
- Sheffield's drilling demonstrated:
 - Moderate grainsize HM D₅₀ 125µm
 - Well sorted
 - Minimal oversize (av. 0.5% >1mm)
 - Slimes (-45µm) av. 22.8%



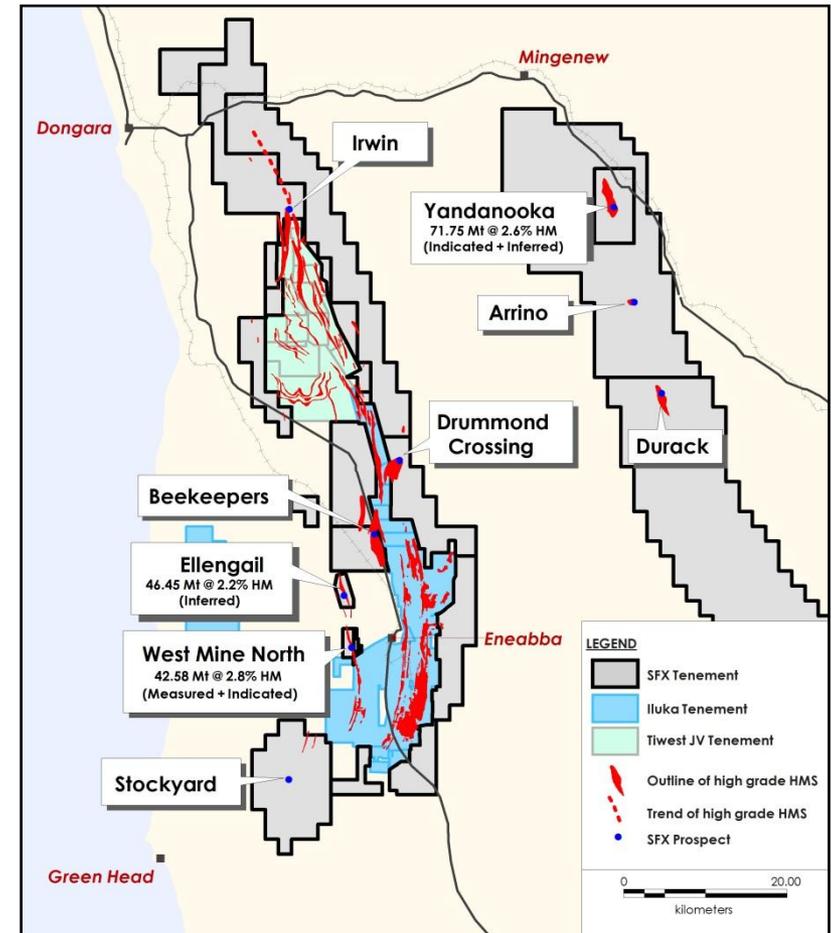
Wet table testwork on bulk sample from McCalls



Typical HM concentrate from McCalls: MCAC007
19.5-21m depth, median grainsize diameter 125µm

NORTH PERTH BASIN

- Medium sized projects (Tier 2)
- 4.1Mt contained HM¹ in resource inventory (3 deposits)
- Near term development and early cash flow potential
- Strategy is to identify sufficient HM in district to support annual production of 100-200Kt HM
- Scoping studies near completion - to assess priorities for development
- Drilling to continue in 2012



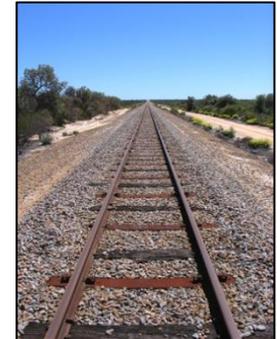
¹Refer to Sheffield's Mineral Resources Tabulation in Appendix 1. Previous releases by Sheffield on 16/8/2011, 25/10/2011 and 7/11/2011 fully report the Mineral Resource Estimates for the Yandanooka, Ellengail and West Mine North deposits.



NORTH PERTH BASIN

COMPETITIVE ADVANTAGES

- ❑ Established mineral sands mining district
- ❑ Good quality, high value HM products
- ❑ Mostly broadacre farmland
- ❑ Proximity to roads & rail
- ❑ “Open” ports
- ❑ Close to Asian markets
- ❑ Available energy sources
- ❑ Abundant groundwater
- ❑ Proximity to SR plants



RESOURCE INVENTORY

Sheffield's contained Valuable HM (VHM)* Resource inventory (0.9% HM cutoff)

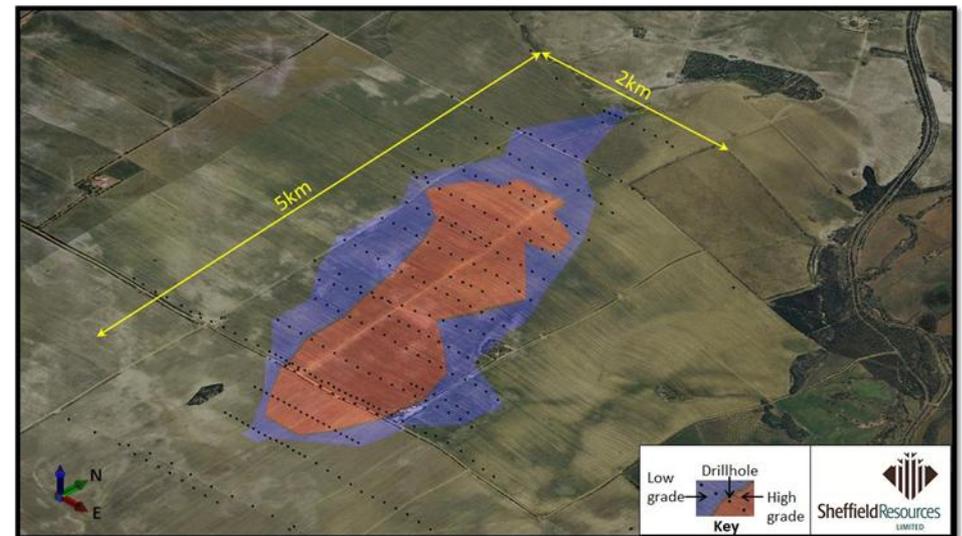
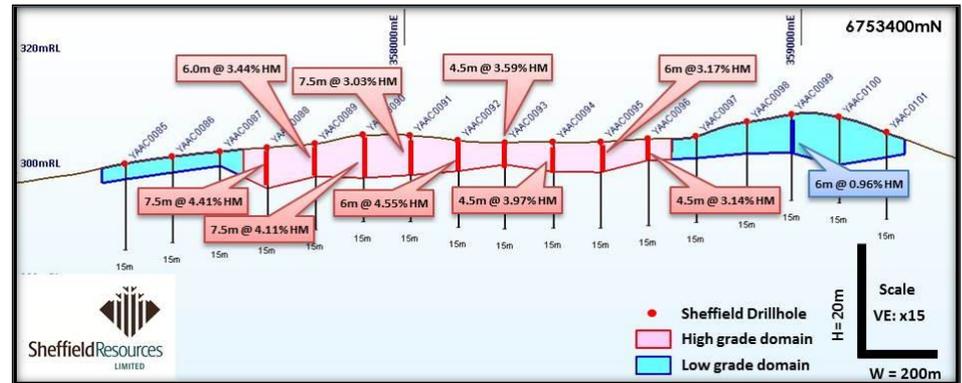
Deposit	Resource Category	Zircon ('000t)	Rutile ('000t)	Leuc. ('000t)	Ilmenite ('000t)	Total VHM ('000t)
Yandanooka	Indicated	201	117	168	1,072	1,558
Yandanooka	Inferred	12	8.5	15	73	108
Ellengail	Inferred	92	90	20	658	860
West Mine North	Measured	18	33	42	200	293
West Mine North	Indicated	71	87	46	506	709
Total	Measured	18	33	42	200	293
Total	Indicated	272	204	214	1,577	2,268
Total	Inferred	104	99	35	730	968
Total	All	394	336	291	2,508	3,529

The contained HM tonnages in the above table are derived from Mineral Resource Estimates for the Yandanooka, Ellengail and West Mine North deposits, previously fully reported in ASX releases by Sheffield on 16 August 2011, 25 October 2011 and 7 November 2011. Appendix 1 summarises the estimated tonnes and grades for these deposits.

* Valuable Heavy Minerals are zircon, rutile, leucoxene and ilmenite. Non-valuable "trash" HM species include iron oxides, garnet, kyanite and staurolite. Monazite and Xenotime, which are potentially valuable as sources of Rare Earth Elements are also excluded from the VHM inventory.

YANDANOOKA

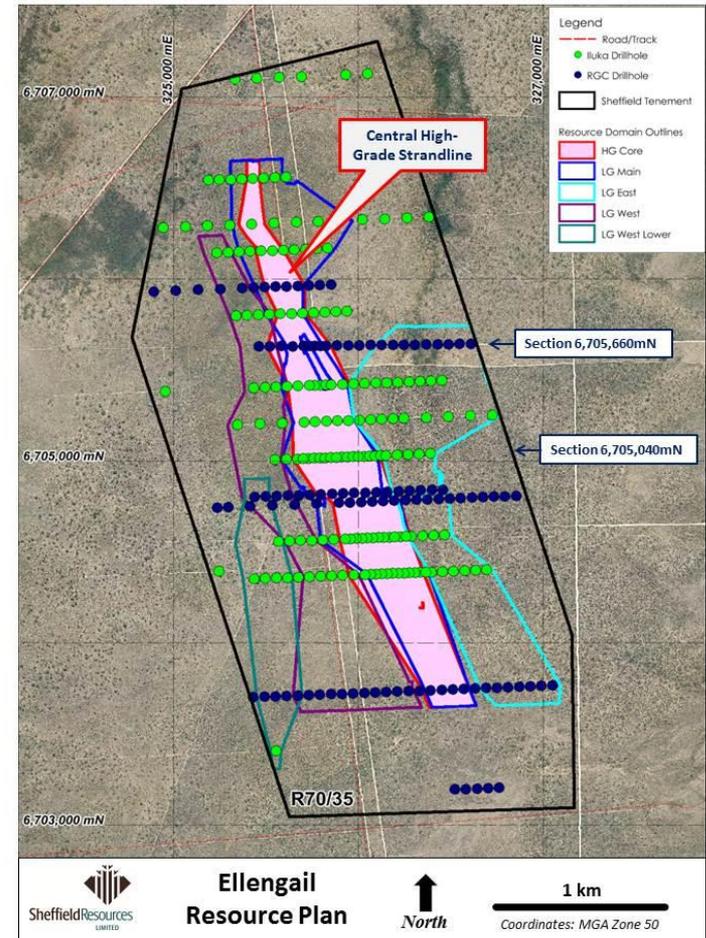
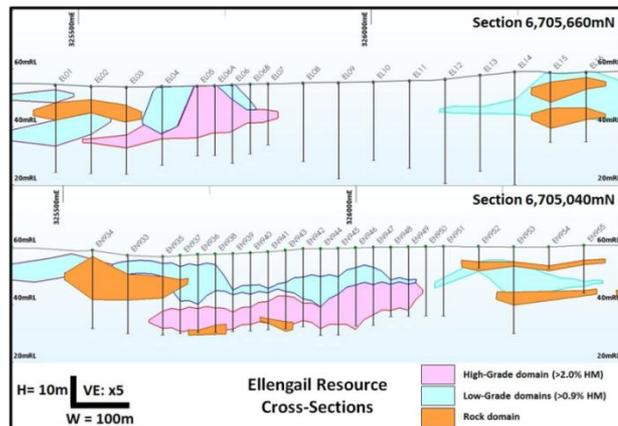
- Total resource of **71.75 million tonnes @ 2.6% HM¹** for 1.84Mt contained HM comprising:
 - 61Mt @ 2.8% HM (Indicated)
 - 10.75Mt @ 1.1% HM (Inferred)
- Includes High Grade core of **37.5Mt @ 3.8% HM** (Indicated)
- High value mineral assemblage: 11.5% zircon, 6.9% rutile, 10.2% leucoxene, 61.9% ilmenite
- At surface, above water table
- 140km by road or rail to Geraldton
- Scoping work in progress
- Further potential at Durack, 25km to south – to be drilled Q1 2012



¹ Refer to Appendix 1 for Resource Tabulation and to ASX release dated 16 August 2011

ELLENGAIL

- Inferred Resource^{1,2} of **46.45 Mt @ 2.2% HM**, containing 1.04Mt HM
- Includes High Grade core of **11.25Mt @ 5.0% HM**, containing 560,000t HM (Inferred)
- High value assemblage: 8.9% zircon, 8.7% rutile, 63.5% ilmenite and 1.9% leucoxene
- Scoping work has commenced



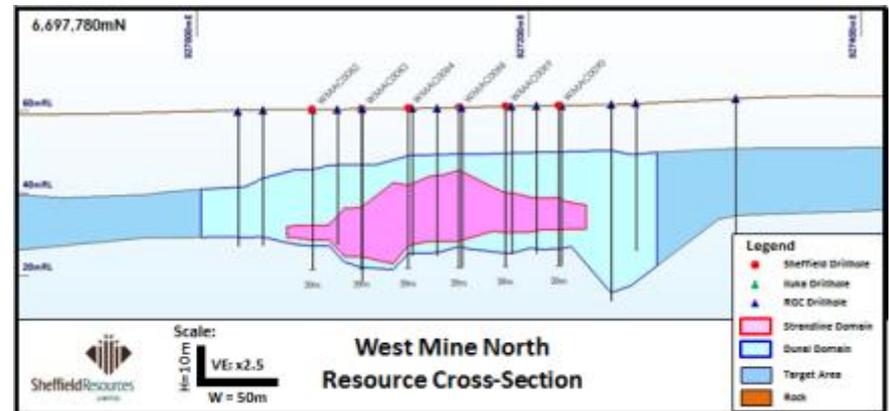
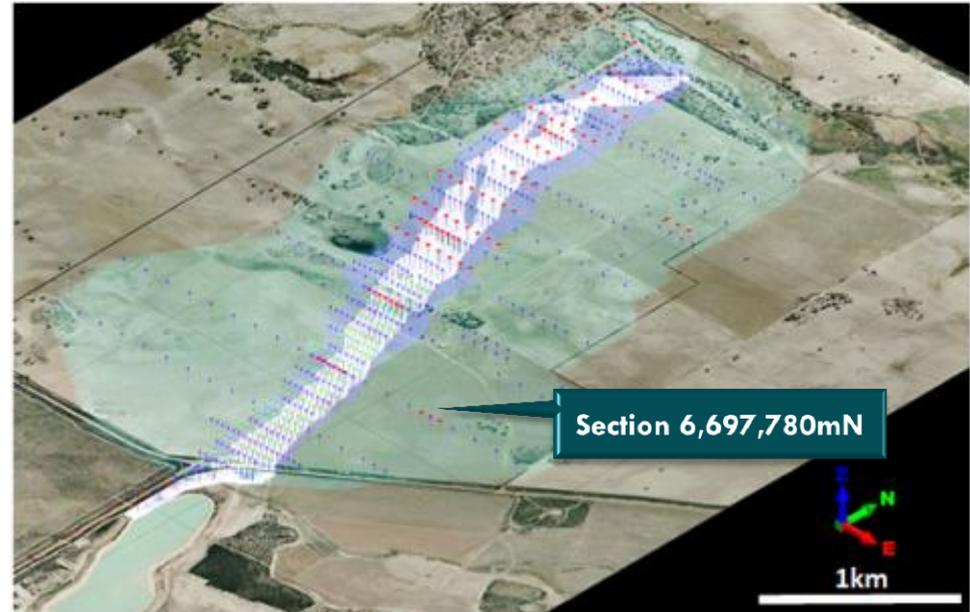
¹Refer to Appendix 1 for Resource Tabulation and ASX release dated 25 October 2011 for full details

²Iluka Resources Ltd (ASX:ILU) retain a 1.5% royalty



WEST MINE NORTH

- Total Resource^{1,2} of **42.58Mt @ 2.8% HM** for **1.2Mt contained HM** comprising:
 - 6.47Mt @ 5.6% HM (Measured)
 - 36.11Mt @ 2.3% HM (Indicated)
- Includes high-grade core of **10.09Mt @ 7.7% HM** (Measured and Indicated)
- High value mineral assemblage: 7.9% zircon, 10.1% rutile, 59.2% ilmenite and 6.4% leucoxene
- 3.5km extension of Eneabba West deposit, dredge mined by Iluka/RGC in 1990's
- Scoping work has commenced

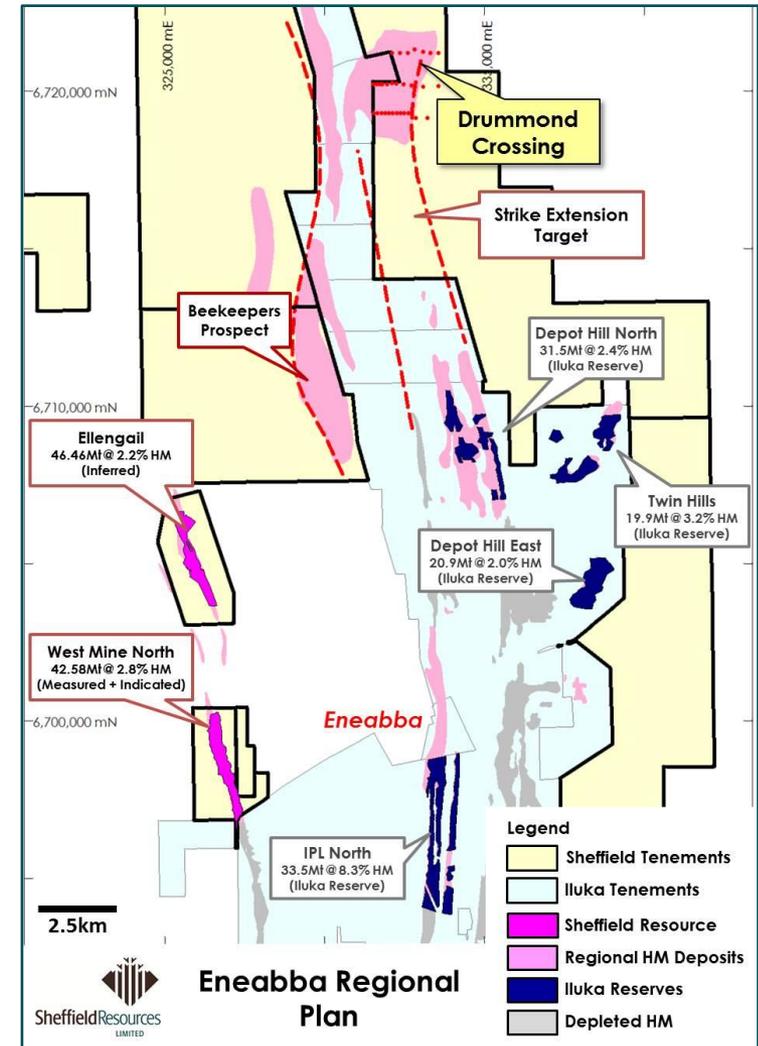
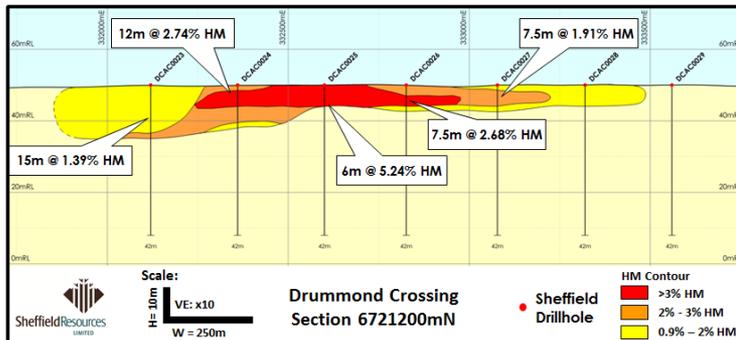


¹Refer to ASX release dated 7 November 2011 for full details

²Iluka Resources Ltd (ASX:ILU) retain a 1.5% royalty

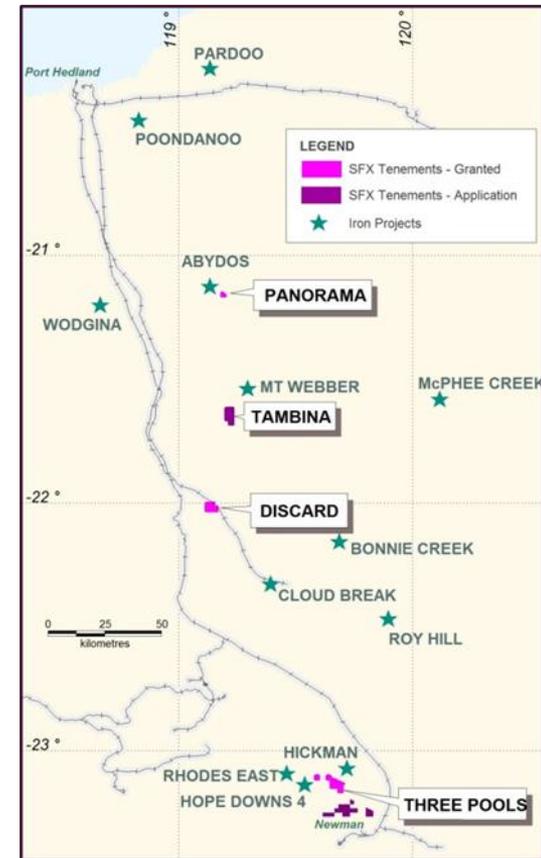
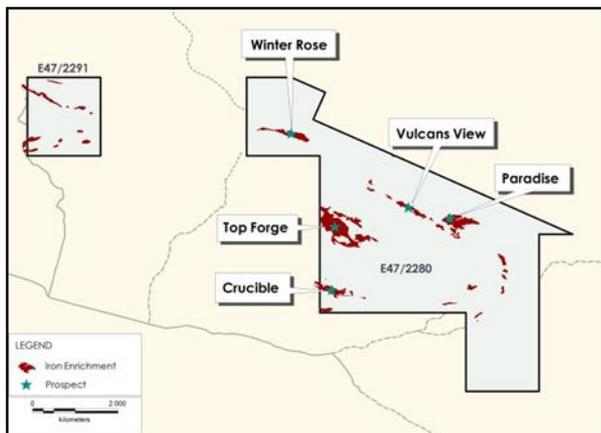
DRUMMOND CROSSING

- New discovery in Eneabba field
- Sheffield's drilling outlined mineralised zone 3km x 1.5km, av. 9m thick
- Intersections include:
 - 6m @ 5.24% HM from 0m (DCAC0025)
 - 12m @ 2.74% HM from 0m (DCAC0024)
 - 10.5m @ 3.16% HM from 0m (DCAC0020)
- Open along strike to north and south
- Mineralised from surface - dunal style
- Mineral assemblage work to be undertaken prior to further drilling



PILBARA IRON PROJECT

- East Pilbara focus
- Significant hematite mineralisation discovered at Three Pools and Panorama during 1H 2011¹
- Exploration Target² of **20-60Mt @ 58-64% Fe** outlined at Three Pools
- 1st pass drilling completed, assays imminent



¹Refer to ASX release of 27 July for further details.

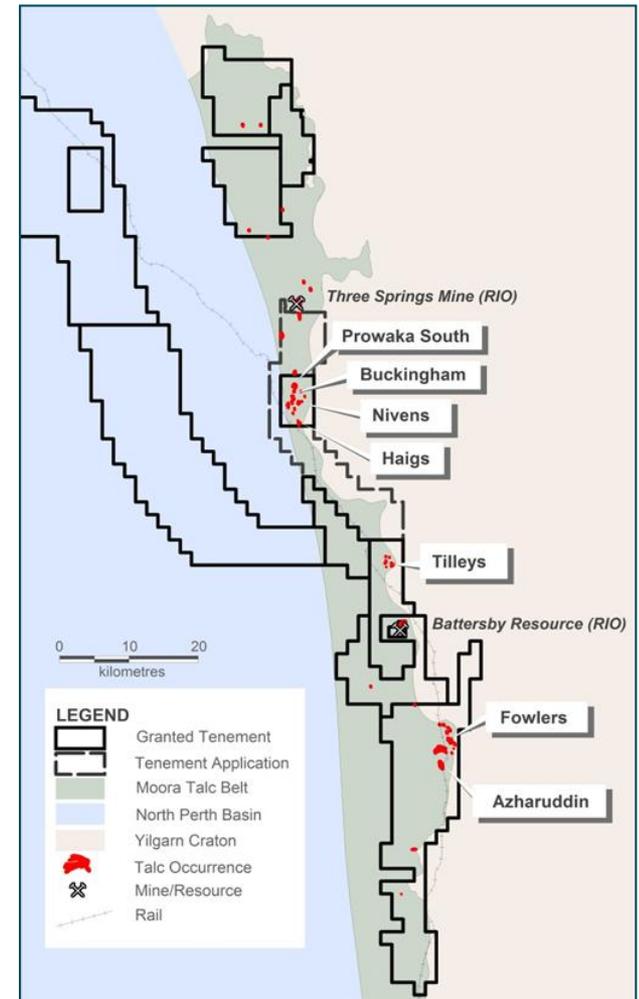
²Sheffield has not yet reported Mineral Resources at the Three Pools project and any discussion in relation to targets and Mineral Resources is conceptual in nature. There has been insufficient exploration to define a Mineral Resource and it is uncertain if further exploration will result in the determination of a Mineral Resource.

TALC

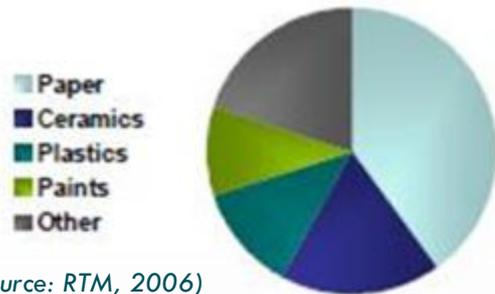
- Simple “Dig and Deliver” commodity, e.g. Three Springs
- Targeting premium grade talc to gain market penetration
- Drilling has demonstrated high purity talc at 6 prospects
- Definition drilling planned 2012



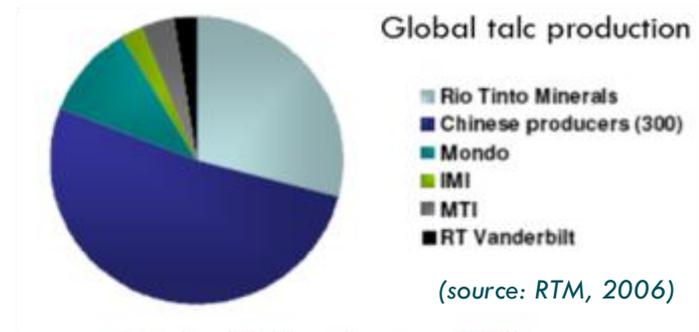
Luzenac's Three Springs mine and new talc beneficiation plant. Source – Rio Tinto Minerals media release 16 November 2010



TALC USES & MARKET

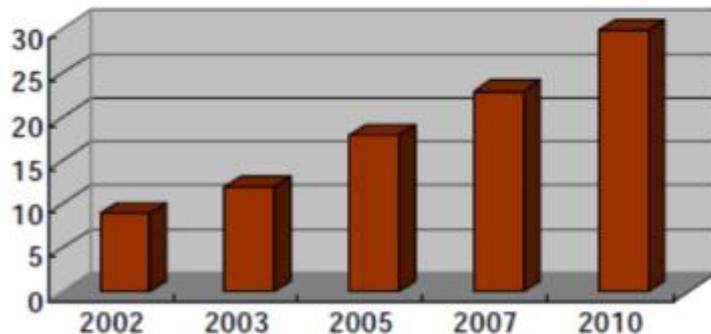


(source: RTM, 2006)



(source: RTM, 2006)

“Talc production was up 18 per cent compared with the first half of 2009 driven by strong polymers demand from the auto sector..” – Rio Tinto Half Yearly Results to 30 June 2010



Amount of plastics products consumed by China's automobile industry in 2002-2010 (x100,000 tons)
(Source: China Talc Association)

Global Market: ~6Mtpa

“(Chinese) output of high quality talc powder and lump is considered insufficient to meet the needs of either Chinese domestic market or export” – Mike O’Driscoll, Industrial Minerals, 2008



Price: US\$260-460/t depending on grade

EXPLORATION & EVALUATION TIMETABLE

Project	2011 Q3	2011 Q4	2012 Q1	2012 Q2	2012 Q3	2012 Q4
Tier 1 HMS						
Dampier				Drilling	Resource Est	Scoping
McCalls		Resource Est	Scoping	Prefeasibility		
Tier 2 HMS						
Yandanooka	Resource Est (done)	Scoping	Prefeasibility			Feasibility
Ellengail	Resource Est (done)	Scoping	Prefeasibility			Feasibility
West Mine North	Resource Est (done)	Scoping	Prefeasibility			Feasibility
Durack			Drilling		Resource Est	Scoping
Irwin			Drilling		Resource Est	Scoping
Drummond Crossing			Drilling		Resource Est	Scoping
Other HMS				Drilling		
Pilbara Iron				Drilling	Resource Est	
Moora Talc				Drilling		

This timetable is indicative only and remains subject to change. Successive stages of evaluation are also dependent on positive outcomes from previous phases of work and other factors.



CONCLUSIONS

- A rapidly emerging player in resurgent Mineral Sands sector
- Dampier zircon project set to become Company's flagship in 2012
- Moving to feasibility on North Perth Basin projects
- Targeting high TiO_2 ilmenite to supply chloride pigment market
- Further upside potential: Iron and Talc projects
- 2012 to be breakthrough year

RIGHT PLACE, RIGHT TIME



For further information please visit the company's web site: www.sheffieldresources.com.au

APPENDIX 1

HMS MINERAL RESOURCES TABULATION

Sheffield Resources' Mineral Resource¹ inventory at a 0.9% HM cutoff as at 7 November 2011.

Deposit	Resource Category	Material (Mt)*	Bulk Density	HM %	Slimes %	Osize %	In-situ HM (Mt)*	Zircon %	Rutile %	Leuc. %	Ilmenite %
Yandanooka	Indicated	61.00	2.0	2.8	14.7	9.4	1.72	11.7	6.8	9.8	62.3
Yandanooka	Inferred	10.75	1.9	1.1	12.9	9.0	0.12	10.1	7.0	12.5	59.8
Yandanooka	Total	71.75	2.0	2.6	14.4	9.3	1.84	11.5	6.9	10.2	61.9
Ellengail	Inferred	46.45	2.0	2.2	15.6	2.1	1.040	8.9	8.7	1.9	63.5
Ellengail	Total	46.45	2.0	2.2	15.6	2.1	1.040	8.9	8.7	1.9	63.5
West Mine North	Measured	6.47	2.0	5.6	14.8	1.2	0.36	4.9	9.1	11.6	54.9
West Mine North	Indicated	36.11	1.9	2.3	13.1	2.8	0.84	8.4	10.3	5.4	60.0
West Mine North	Total	42.58	1.9	2.8	13.4	2.5	1.21	7.9	10.1	6.4	59.2
Total	Measured	6.47	2.0	5.6	14.8	1.2	0.36	4.9	9.1	11.6	54.9
Total	Indicated	97.13	2.0	2.6	14.1	6.9	2.56	10.5	8.1	8.2	61.5
Total	Inferred	57.21	2.0	2.0	15.1	3.4	1.16	9.1	8.4	3.9	62.8
Total	All	160.81	2.0	2.5	14.5	5.4	4.08	9.8	8.2	6.8	61.7

*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; Leucosene 85-95% TiO₂; Ilmenite <55-85% TiO₂.