

SHEFFIELD RESOURCES LTD

Mid West Economic and Resources Summit Geraldton, Western Australia 24 August 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 - YANDANOOKA RESOURCE ESTIMATE

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 \$4.1m

Capital Structure

Market Cap	\$17.6m (undiluted, at 30cps)
Shares	58.7m
Options	27.2m (20c, 30/06/13)
	4.6m (30c, 30/11/13 & 13/12/15)
	1.1m (44c, 20/03/16 & 1/7/16)

~ 6.9cps

Board & Management

Will Burbury Bruce McQuitty David Archer David Boyd

Chairman Managing Director Technical Director Exploration Manager



Major Shareholders

Cash Backing

Directors	25.6%
Cappig Finance	3.6%
Top 40	55.8%

NEAR-TERM STRATEGY



Mid West - Mineral Sands, Talc

- Discover and develop a series of mineral sand deposits capable of producing 100,000-150,000tpa heavy mineral concentrate
- Discover and develop a deposit of premium talc capable of supporting a 100,000tpa mining operation

Pilbara – Iron Ore

 Discover and consolidate 200 Mt of direct shipping iron ore in the Eastern Pilbara

SHEFFIELD RESOURCES



- Nimble, opportunistic active junior explorer
- Proven project generation skills
- □ ASX listed Dec 2010
- Australian owned
- Significant Mid West presence (~3,500km²)
- Committed to contributing to region's growth



MID WEST OPPORTUNITY



What attracted us to the Mid West in early 2010?

- Overlooked commodities: Mineral Sands & Talc
- World Class deposits e.g.
 Eneabba mineral sands
 Three Springs talc
- Proximity to infrastructure
- □ "Open" ports
- Close to Asian markets



SEIZING THE OPPORTUNITY



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



MINERAL SANDS USES & MARKETS



Zircon

- Main use in the manufacture of ceramics and refractory linings
- Global market 1.3Mtpa
- Acute shortage of supply

Titanium Minerals

- □ Rutile: >95% TiO_2
- □ Leucoxene: 85-95% TiO₂
- □ Altered ilmenite: 55-85% TiO₂
- □ Ilmenite <55% TiO_2
- Main use in pigment production for paint, coatings, plastics, titanium metal
- Global market ~6Mtpa also experiencing shortage of supply



MINERAL SANDS PROJECT STATUS



Resources

Yandanooka

Resource Estimation Underway

Ellengail West Mine North McCalls

Next Drilling

Durack Irwin Stockyard





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 Port









- 25km south of Yandanooka
- Limited prior drilling by Iluka
- Similar dimensions to Yandanooka deposit
- Mineralised at or near surface
- Drilling planned Q1 2012



WEST MINE NORTH



- Purchased from Iluka Dec 2010
- 3.5km extension of Eneabba West deposit, dredge mined by Iluka/RGC in 1990s
- Drilling by Sheffield in May 2011 confirmed high grades¹
- Resource estimate due Oct 2011





ELLENGAIL



- Purchased from Iluka Dec 2010
- □ 3km north of West Mine North
- Lower grade than WMN but broader and closer to surface
- High grade strand with lower grade dunal cap in north
- Resource estimate due Sep 2011



MCCALLS



- Located 110km north of Perth
- □ Drilled by BHP in early 1990s
- Exploration Target¹ of 1.5-2.5 billion tonnes @ 1.1-1.3% HM
- High TiO₂ ilmenite-dominated assemblage
- Confirmatory drilling by Sheffield in May 2011 – results awaited
- 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.

TALC



- □ Simple "Dig and Deliver" Commodity
- Sheffield targeting Premium Grade Talc to gain market penetration









Three Springs Talc Mine 1996 (source GSWA)



Luzenac lump talc stockpiles, awaiting shipment Geraldton Port

TALC **USES & MARKET**



"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

Paper

Plastics

Paints

Other



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



"(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



MOORA TALC BELT



- 175km long Talc Belt
- Locked up by majors for last 50 years
- Hosts world class Three Springs Talc Mine – producing premium talc since 1948
- □ Simple "dig and deliver" operation
- Three Springs Mine is a key element of Luzenac's global talc business, recently acquired by Imerys from Rio Tinto
- Sheffield controls exploration potential – dominant tenement position of 1,150km²



TALC EXPLORATION OPPORTUNITY



- Prior exploration by WMC, Rio & others - significant sunk cost
- Extensive database
- Over 20 "walk up" drill targets
- Predictive geological model





SHEFFIELD'S TALC DRILLING



- 1,238m core drilling program completed in May-June
- Significant talc in 4 of 6 prospects tested¹
- Up to 84m of talc intersected from surface at Fowlers
- □ 26.5m of talc from 45m depth at Tilleys
- Assay results due in September



Tilleys Prospect green talc (MODD009 - 60.8 to 64.3m, HQ core.



PILBARA IRON PROJECT



- Pilbara World Class Iron Province
- Core expertise of Sheffield's management team
- Significant hematite mineralisation mapped and sampled at Three Pools and Panorama during 1H 2011¹
- Exploration Target² of 20-60Mt @ 58-64% Fe outlined at Three Pools
- Drilling scheduled for Q4 2011



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.

EXPLORATION & EVALUATION TIMETABLE



Project	Drilling status	Assay timetable	Resource Estimation	Scoping Study	Prefeasibility
Yandanooka HMS	Drilled 1H 2011	Results received	Completed	Q4 2011	1H 2012?
Ellengail HMS	Compilation of historic drilling completed	N/A	In Progress	Q4 2011	1H 2012?
West Mine North HMS	Drilled 1H 2011	Results received	Oct 2011	Q4 2011	1H 2012?
McCalls HMS	Drilled 1H 2011	Late August, 2011	Oct 2011	Q4 2011	1H 2012?
Irwin HMS	Drilled 1H 2011 Further drilling planned for 1H 2012	Sept 2011	Q3 2012		
Drummond Crossing HMS	Drilled 1H 2011	Sept 2011	-	-	-
Durack HMS	Drilling planned 1H 2012		Q3 2012	-	-
Stockyard HMS	Drilling planned 1H 2012		-	-	-
Moora Talc	9 holes completed Further drilling planned for 1H 2012	Sept 2011	Q3 2012?	-	
Pilbara Iron	Drilling Q4 2011 & Q1 2012	Dec 2011	Q3 2012?	-	-

Note - these dates are indicative only and remain subject to possible delays arising from laboratory assay and other factors

CONCLUSION

- Experienced Board and Management with proven track record in project generation
- Three growth sectors: HMS, Talc, Iron Ore
- □ Clear strategy
- Rapid progress since listing in December 2010
- Strong Mid West focus and commitment to contributing to the region's growth.





SHEFFIELD RESOURCES LTD ASX:SFX



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

APPENDIX 1 YANDANOOKA RESOURCE TABULATION



Yandanooka Project – Mineral Resources as at 16 August, 2011, at 0.9% HM Cut-off

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

