

# BROCKMAN

BROCKMAN MINING LIMITED  
布萊克萬礦業有限公司

IT'S A GOOD TIME TO SECURE INFRASTRUCTURE

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Colin Paterson, Executive Director, Brockman Mining Limited



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# Overview

- About Brockman
- Financial backing
- Projects overview
- Infrastructure Solution
- Conclusion

# Capital Structure

Brockman Mining Limited is listed on the HKEx (159) and the ASX (BCK)

	March 2015
Shares on issue	8.4 billion
Market capitalisation (i)	A\$444.2 million
Cash on hand (ii)	A\$22.2 million
Debt	nil
Enterprise value	A\$424.5 million
Options on issue	352.5 million

(i) As of 6<sup>th</sup> March 2015 at A\$0.053 per share

(ii) As of 31<sup>st</sup> December 2014 (A\$ to HKD at 6.33)

# Brockman - a producer in the making

- Brockman has 35 Mtpa to underpin an East Pilbara infrastructure solution.
- Both Marillana (20mtpa) and Ophthalmia (15 Mtpa) projects offer significant tonnage throughput, long mine life (15-20 years) and products marketed in the 62% Fe index.
- Brockman maintains a foundation shareholder position in North West Infrastructure (NWI). NWI is the delivery vehicle for the State Government's conferral of 50 Mtpa 'B' class capacity allocation to develop a Junior Port facility at South West Creek in Port Hedland port.

# Strong Shareholder Support

- Brockman is supported by both Chinese and Australian shareholders.
- Brockman's major shareholders have significant investment interests in China and Australia which will facilitate the commercialisation of Marillana.
- The largest shareholder, Ocean Line Holdings (~22%) has an interest in 4 berths at Tianjin Port with 100Mtpa capacity (US\$2B investment) and carries over 50Mtpa in seaborne cargoes.



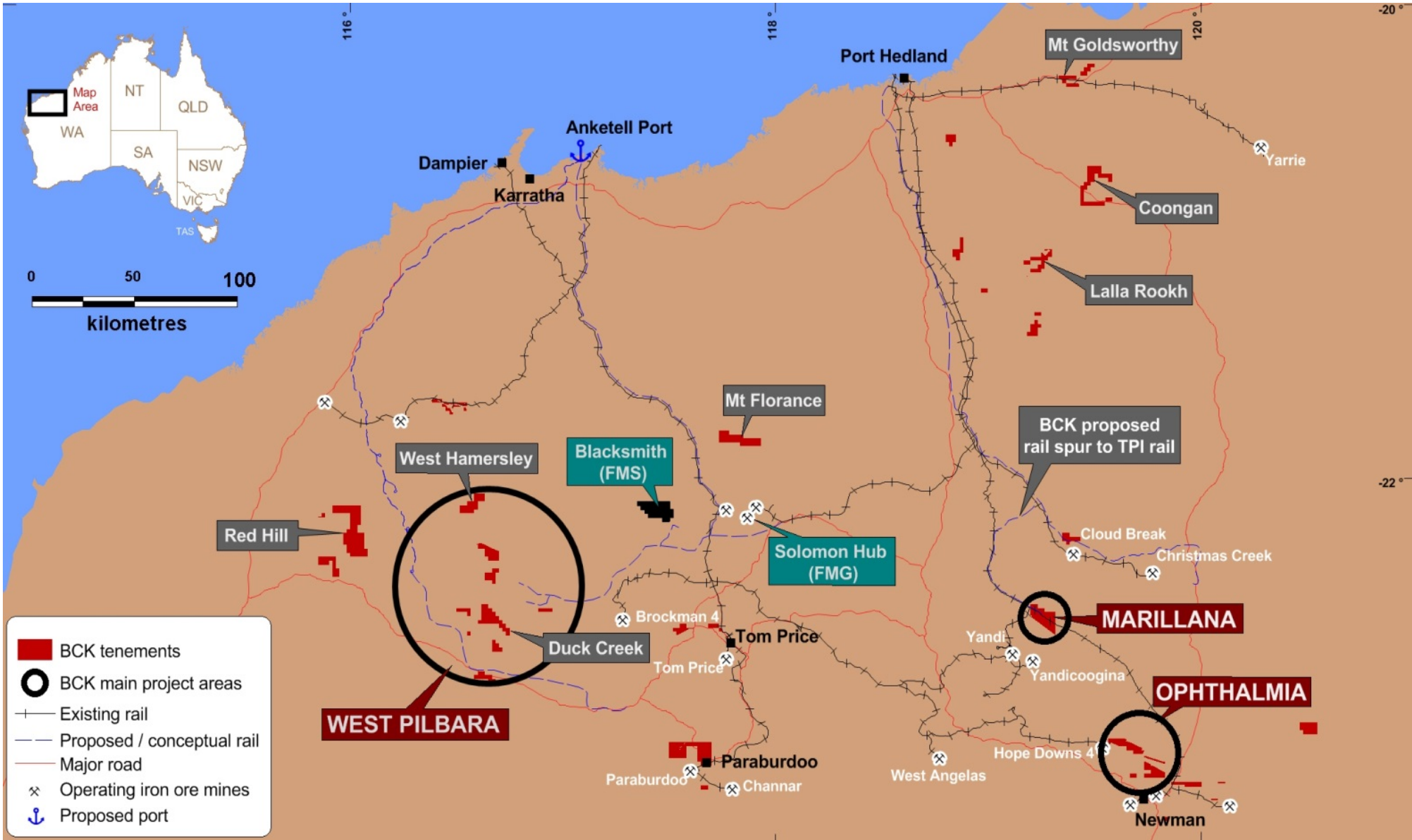


# Marillana & Ophthalmia Mines





# Brockman Pilbara Assets



**BROCKMAN**

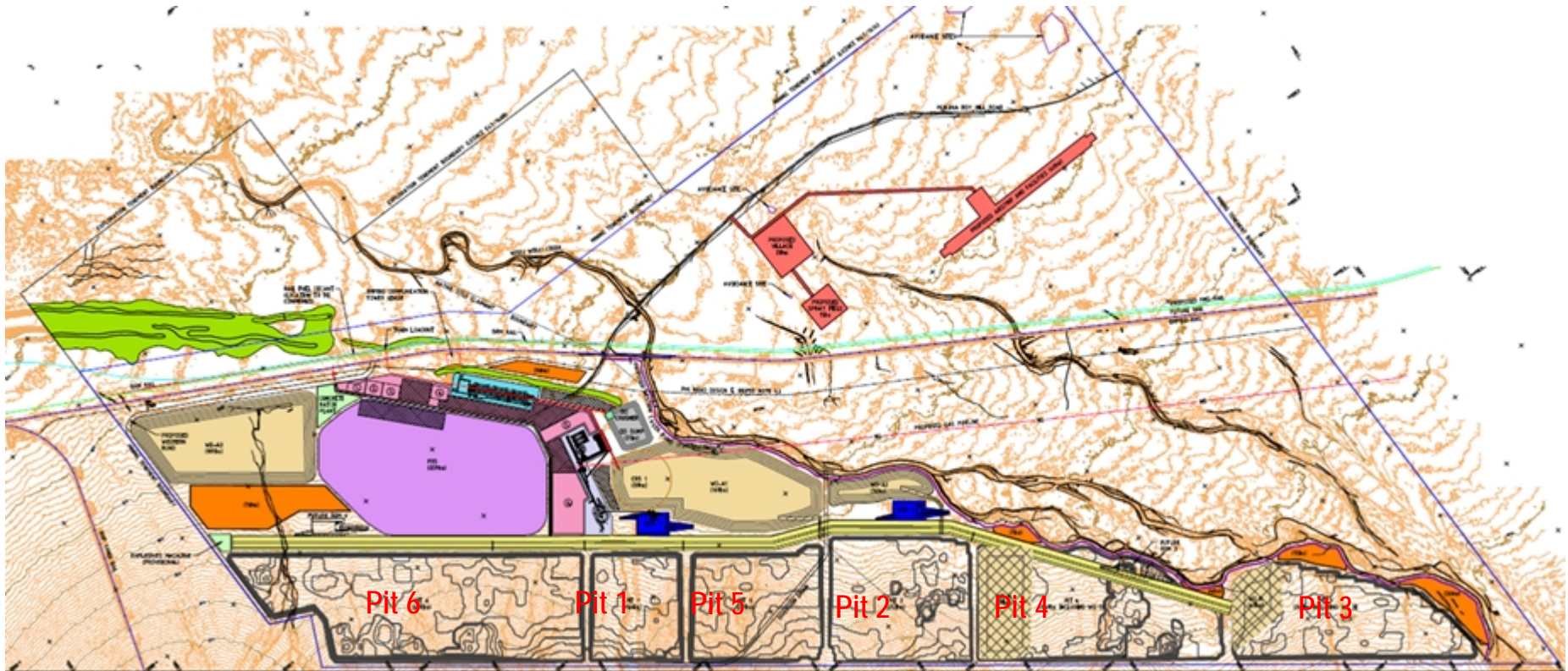


# Marillana – a competitive project

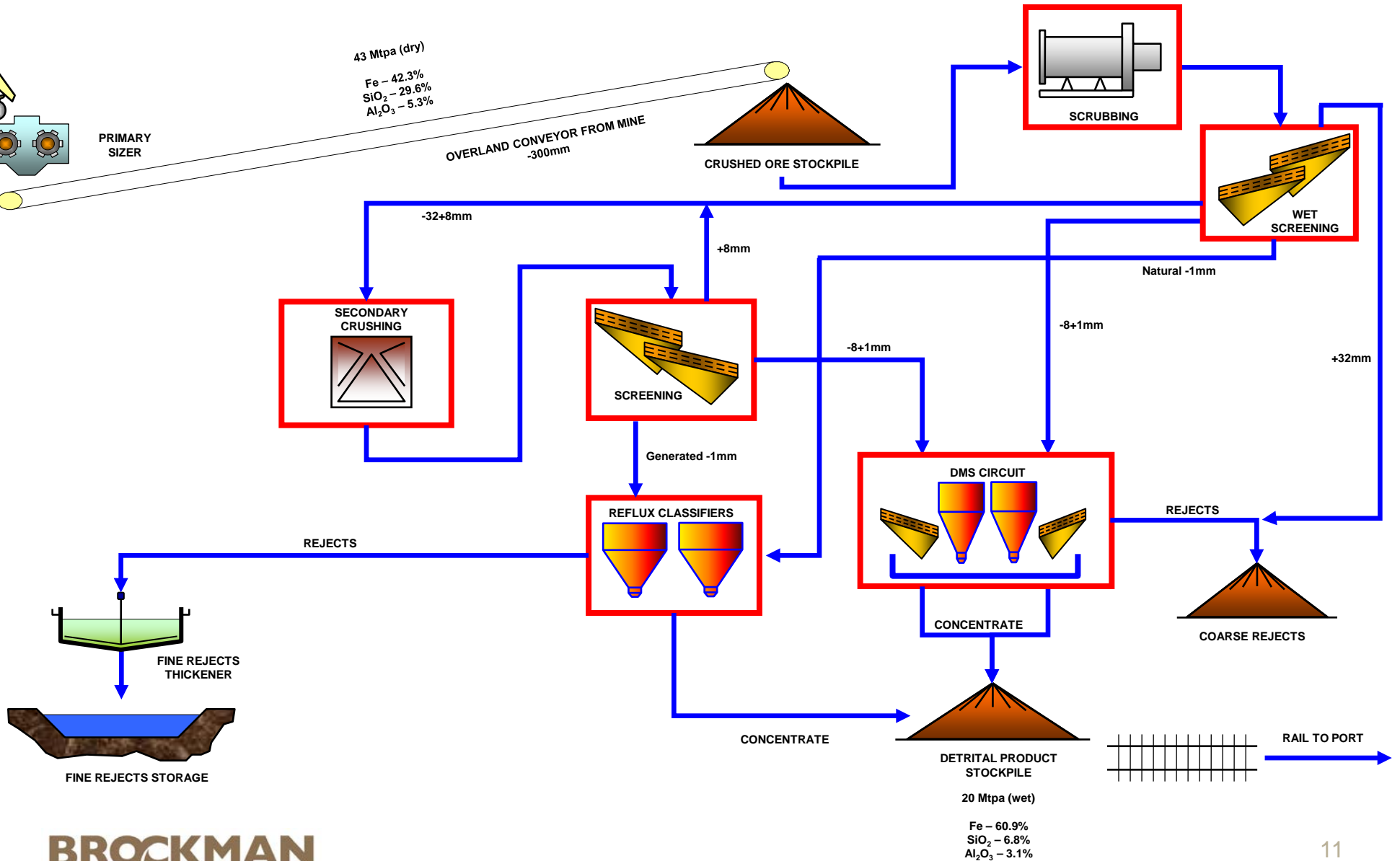
PROJECT	
<b>Mining Reserve (JORC 2004)</b>	1.05 Bt (Proven: 133 Mt, Probable: 916 Mt)
<b>Final product and grade</b>	426 million tonnes at 60.5–61.5% Fe, low impurities.
<b>Mining Operations</b>	<ul style="list-style-type: none"><li>• Conventional truck and shovel</li><li>• Free digging</li><li>• Average Strip Ratio: 0.8 over life of mine</li></ul>
<b>Annual production</b>	Up to 20 Mtpa (wet)
<b>First production</b>	Subject to an infrastructure solution being confirmed and finalised
<b>Mine life (initial)</b>	Over 20 years
<b>C1 operating cost (mine)</b>	A\$21-24/t (US\$17-19/t)

# Marillana – Simple Mining & Processing

- Shallow, large scale mining
- Simple robust process flow sheet
- Positive sintering performance
- -8 mm +1 mm product size – no ultra fines
- Additional yield possible from -1mm material



# Marillana Detrital Processing Plant





# Marillana – Pilot Scale Testwork

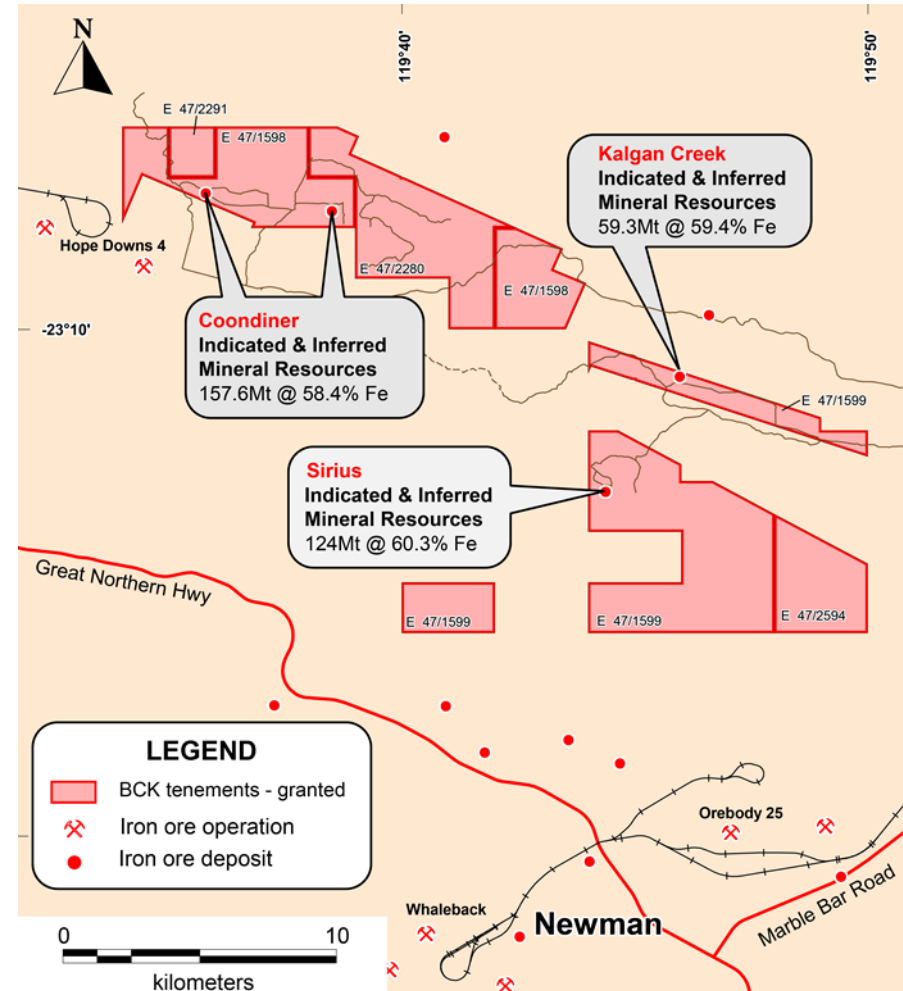
- 320 tonne bulk sample from two areas processed at a nominal rate of 5 tonne/hour
- Met or exceeded all expected beneficiation parameters
  - Fe (60.9%)
  - Yield +40%
  - Phos 0.076%
- Extensive sinter testwork based on this product replacing up to 25% of competitor ores demonstrated:
  - Improved productivity
  - Low fuel usage
  - High yield,
  - High Tumble Index
  - High Reducibility Index
  - Low Reduction Degradation Index



# Ophthalmia – next phase

- Potentially as significant as the Marillana Project with bedded hematite mineralisation (DSO) discovered 15 – 30 km north of Newman.
- Current JORC 2012\* Mineral Resource of 341 Mt at 59.3% Fe from deposits at Coondiner (Pallas and Castor), Kalgan Creek and Sirius.
- Located only 70 – 80 km from Marillana, providing opportunities to connect to the Marillana Project infrastructure solution.
- Prefeasibility study currently underway.

\*As previously reported in ASX announcement dated December 1 2014





# Rail



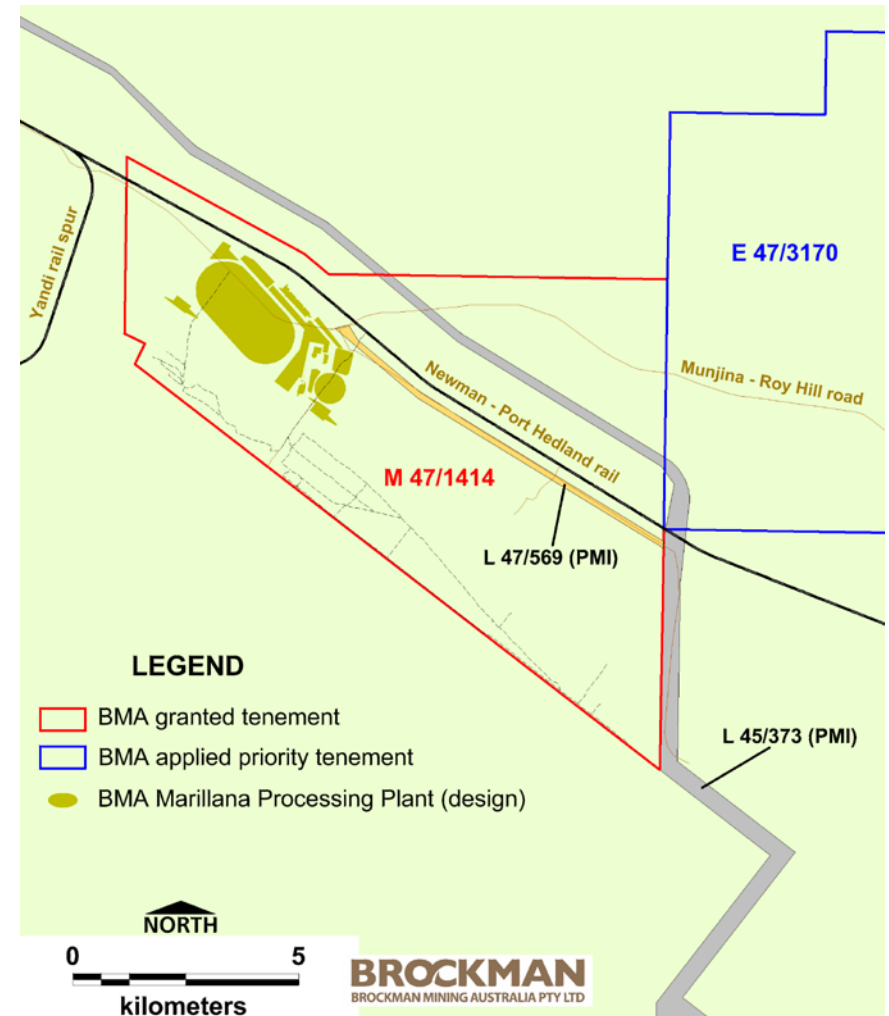


# Rail Options

- Confident we will achieve a rail solution
- TPI Rail access
  - Access Application submitted to the TPI railway in May 2013 under the WA Rail Access Code (2000). TPI challenged this application both with the Economic Regulation Authority and in the WA Supreme Court on the basis of Brockman's project is invalid.
  - In September 2014, the Supreme Court determined that Brockman's application was valid.
  - Brockman Sections 14 and 15 applications are near completion.
  - Once submitted, the negotiate/arbitrate access model is underway.

# Other Rail Options

- Negotiated haulage
  - Infrastructure owners more pragmatic
  - See potential to use as a profit centre to offset reduced ore revenues
- New rail
  - Aurizon Relationship Agreement - EPIR
  - MRL (BOTS) – proposed corridor runs through Marillana lease



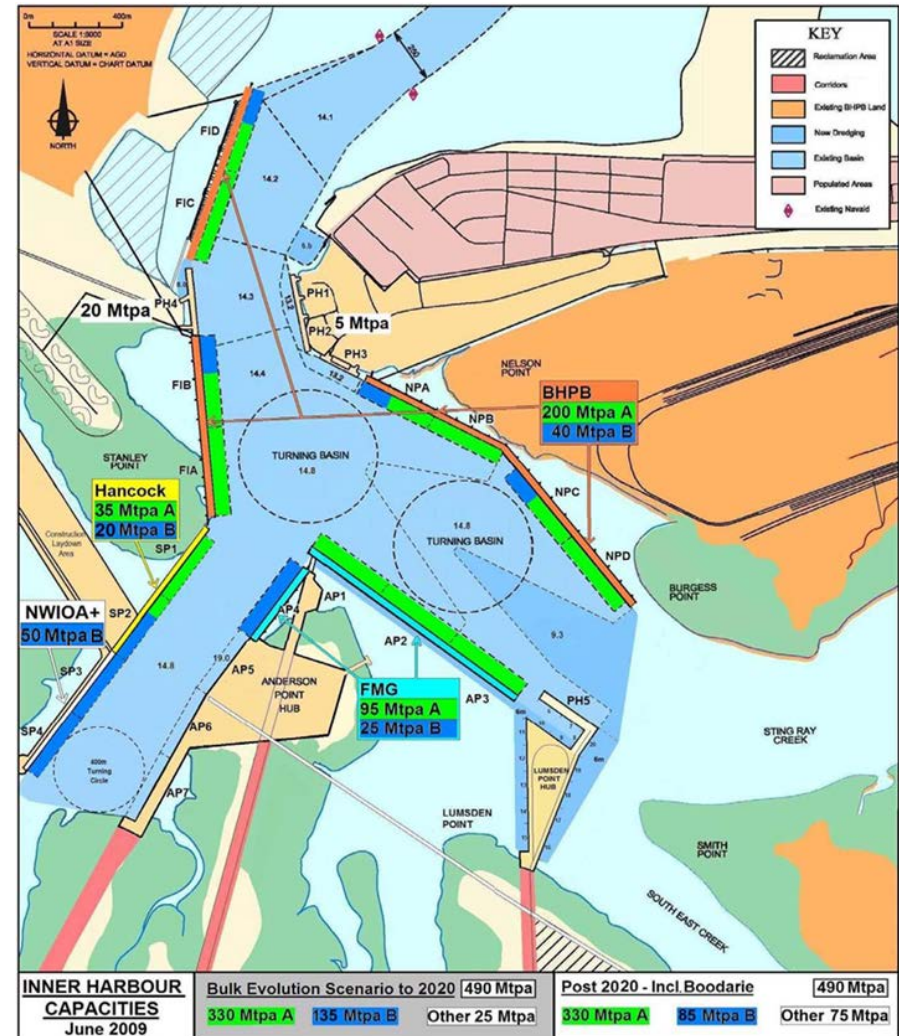
# Port Options





# Port Infrastructure

- NWI is a joint venture between Brockman & Atlas;
- NWI is the delivery vehicle for the State Government's 50 Mtpa 'B' class Junior Port conferral at South West Creek (SWC), Port Hedland, which includes two berths and a stockyard;
- No shareholder has a specific capacity allocation;
- NWI is engaging with potential infrastructure providers and welcomes formal proposals;
- A rail solution remains key to the success of this.



# Transshipping Opportunities

- The Junior Port can look at other opportunities in 'C' class which could increase the SWC potential capacity beyond 50 Mtpa;
- Built-for-purpose Transshipment Shuttle Vessels can utilise low tide slots;
- Low upfront infrastructure development/dredging cost;
- Scalable – start up without major investment;
- Single vessel transshipment system, no other equipment required;
- Flexible Design – size range from 20,000 to 70,000 DWT and draft down to 6 metres;
- Single Point Loading System; and
- Loads Valemax up to 400,000dwt.



# Conclusion

- Current low price environment creates the opportunity for pragmatic multi-user infrastructure solutions;
- There is incentive for infrastructure owners to seek additional revenues from infrastructure;
- Brockman aims to secure viable infrastructure options exercisable in the future;
- Lower capital cost options emerging;
- Port capacity not a limitation on aggregating future multi-user tonnes; and
- Current low price is not a deterrent – Brockman has received investor interest at both the listed and project levels.



# Appendix 1

## Resource and Reserve Summaries

# Mineral Resources/Ore Reserves Summary

Project	Resource (Mt)	Grade (% Fe)	Reserve (Mt)	Grade (% Fe)
<b>Marillana</b>				
Detrital	1,528	42.6	1,001	42.4
CID	102	55.6	48	55.5
<b>Ophthalmia</b>				
Coondiner DSO	158	58.4	-	-
Kalgan Creek DSO	59	59.4	-	-
Sirius DSO	124	60.3	-	-
<b>West Pilbara</b>				
Duck Creek	18	56.5		
<b>TOTAL (Pilbara Region)</b>	<b>1,989</b>		<b>1,049</b>	

# Marillana Iron Ore Project

## Mineral Resource Summary

<b>BENEFICIATION FEED</b> (Cut-off grade: 38% Fe)			
<b>Mineralisation type</b>	<b>Resource classification</b>	<b>Tonnes (Mt)</b>	<b>Grade (% Fe)</b>
Detrital	Measured	173	41.6
	Indicated	1,036	42.5
	Inferred	201	40.7
Pisolite	Indicated	117	47.4
<b>Subtotal</b>	<b>Measured</b>	<b>173</b>	<b>41.6</b>
	<b>Indicated</b>	<b>1,154</b>	<b>43.0</b>
	<b>Inferred</b>	<b>201</b>	<b>40.7</b>
<b>TOTAL</b>		<b>1,528</b>	<b>42.6</b>

Mineral Resources are inclusive of Ore Reserves



# Marillana Iron Ore Project Mineral Resource Summary

MARILLANA CID (Cut-off grade: 52% Fe)							
Resource classification	Tonnes (Mt)	Fe (%)	CaFe* (%)	Al <sub>2</sub> O <sub>3</sub> (%)	SiO <sub>2</sub> (%)	P (%)	LOI (%)
Indicated	84.2	55.8	61.9	3.6	5.0	0.097	9.8
Inferred	17.7	54.4	60.0	4.3	6.6	0.080	9.3
<b>TOTAL</b>	<b>101.9</b>	<b>55.6</b>	<b>61.5</b>	<b>3.7</b>	<b>5.3</b>	<b>0.094</b>	<b>9.7</b>

Mineral Resources are inclusive of Ore Reserves

\*CaFe represents calcined Fe and is calculated by Brockman using the formula  $CaFe = Fe\% / ((100-LOI\%)/100)$

# Marillana Iron Ore Project

## Ore Reserve Summary

MARILLANA DETRITAL ORE RESERVES		
Reserve classification	Mt	Fe (%)
Proven	133	41.6
Probable	868	42.5
<b>TOTAL</b>	<b>1,001</b>	<b>42.4</b>

MARILLANA CID ORE RESERVES*							
Reserve classification	Mt	Fe (%)	CaFe* (%)	SiO <sub>2</sub> (%)	Al <sub>2</sub> O <sub>3</sub> (%)	P (%)	LOI (%)
Probable	48.5	55.5	61.5	5.3	3.7	0.09	9.7
<b>TOTAL</b>	<b>48.5</b>	<b>55.5</b>	<b>61.5</b>	<b>5.3</b>	<b>3.7</b>	<b>0.09</b>	<b>9.7</b>

\*CaFe represents calcined Fe and is calculated by Brockman using the formula  $CaFe = Fe\% / ((100-LOI\%)/100)$

# Ophthalmia Iron Ore Project

## Mineral Resource Summary

OPHTHALMIA DSO Mineral Resources (Cut-off grade: 54% Fe)									
Deposit	Class	Tonnes (Mt)	Fe (%)	CaFe* (%)	SiO <sub>2</sub> (%)	Al <sub>2</sub> O <sub>3</sub> (%)	S (%)	P (%)	LOI (%)
Coondiner	Indicated	140.5	58.5	62	5.18	4.46	0.007	0.18	5.71
	Inferred	17.1	58.1	61.5	6.06	4.45	0.008	0.16	5.47
	<b>Sub Total</b>	<b>157.6</b>	<b>58.4</b>	<b>62</b>	<b>5.27</b>	<b>4.46</b>	<b>0.007</b>	<b>0.17</b>	<b>5.68</b>
Sirius	Indicated	105	60.4	63.7	3.54	3.97	0.007	0.18	5.22
	Inferred	19	60.2	63.4	4.09	3.83	0.009	0.17	5.14
	<b>Sub Total</b>	<b>124</b>	<b>60.3</b>	<b>63.6</b>	<b>3.62</b>	<b>3.95</b>	<b>0.007</b>	<b>0.18</b>	<b>5.2</b>
Kalgan Creek	Indicated	34.9	59.3	62.7	4.08	4.57	0.009	0.18	5.49
	Inferred	24.4	59.5	63.2	4.38	3.9	0.007	0.16	5.81
	<b>Sub Total</b>	<b>59.3</b>	<b>59.4</b>	<b>62.9</b>	<b>4.21</b>	<b>4.29</b>	<b>0.009</b>	<b>0.17</b>	<b>5.63</b>
<b>Total</b>		<b>340.9</b>	<b>59.3</b>	<b>62.7</b>	<b>4.49</b>	<b>4.24</b>	<b>0.007</b>	<b>0.17</b>	<b>5.50</b>

\*CaFe represents calcined Fe and is calculated by Brockman using the formula  $CaFe = Fe\% / ((100-LOI\%)/100)$



# West Pilbara Iron Ore Project Mineral Resource Summary

WEST PILBARA DSO Mineral Resources (Cut-off grade: 54% Fe)									
Deposit	Class	Tonnes (Mt)	Fe (%)	CaFe* (%)	SiO <sub>2</sub> (%)	Al <sub>2</sub> O <sub>3</sub> (%)	S (%)	P (%)	LOI (%)
Duck Creek	Inferred	18.3	56.5	62.8	4.91	3.22	0.037	0.06	9.96
<b>Total</b>		<b>18.3</b>	<b>56.5</b>	<b>62.8</b>	<b>4.91</b>	<b>3.22</b>	<b>0.037</b>	<b>0.06</b>	<b>9.96</b>

\*CaFe represents calcined Fe and is calculated by Brockman using the formula  $CaFe = Fe\% / ((100-LOI\%)/100)$

# Competent Person's Statement

The information in this presentation that relates to Mineral Resources and Ore Reserves at Marillana is based on information compiled by Mr I Cooper, Mr J Farrell and Mr A Zhang. The information in this presentation that relates to Mineral Resources at Duck Creek is based on information compiled by Mr A Zhang.

The Ore Reserves statement has been compiled in accordance with the guidelines defined in the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (The JORC Code – 2004 Edition). The Ore Reserves have been compiled by Mr Iain Cooper, who is a Member of Australasian Institute of Mining and Metallurgy and a full time employee of Golder Associates Pty Ltd. Mr Cooper has sufficient experience in Ore Reserve estimation relevant to the style of mineralisation and type of deposit under consideration to qualify as Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Mineral Resources and Ore Reserves". Iain Cooper consents to the inclusion of the matters based on this information in public releases by Brockman, in the form and context in which it appears.

Mr J Farrell, who is a Member of the Australasian Institute of Mining and Metallurgy and a former employee of Golder Associates Pty Ltd, produced the Mineral Resource estimates for Marillana based on the data and geological interpretations provided by Brockman. Mr Farrell has sufficient experience that is relevant to the style of mineralisation, type of deposit under consideration and to the activity that 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 Resource and Ore Reserves". Mr Farrell consents to the inclusion in this presentation of the matters based on his information in the form and context that the information appears.

Mr A Zhang, who is a Member of the Australasian Institute of Mining and Metallurgy and a full-time employee of Brockman Mining Australia Pty Ltd, provided the geological interpretations and the drill hole data used for the Mineral Resource estimations at Marillana. Mr Zhang has sufficient experience that is relevant to the style of mineralisation, type of deposit under consideration and to the activity that 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 Resource and Ore Reserves". Mr Zhang consents to the inclusion in this presentation of the matters based on his information in the form and context that the information appears.

Mr A Zhang, who is a Member of the Australasian Institute of Mining and Metallurgy and a full-time employee of Brockman Mining Australia Pty Ltd, produced the Mineral Resource estimate for Duck Creek based on the data and geological interpretations provided by Brockman. Mr Zhang has sufficient experience that is relevant to the style of mineralisation, type of deposit under consideration and to the activity that 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 Resource and Ore Reserves". Mr Zhang consents to the inclusion in this presentation of the matters based on his information in the form and context that the information appears.

# Appendix 2

## Access Process

## Rail Access Code Timeline

