

AGM Presentation

Focused on the supply of premium quality primary products to the fertiliser markets to meet the growing plant based food demands in the Asia-Pacific region



November 2019

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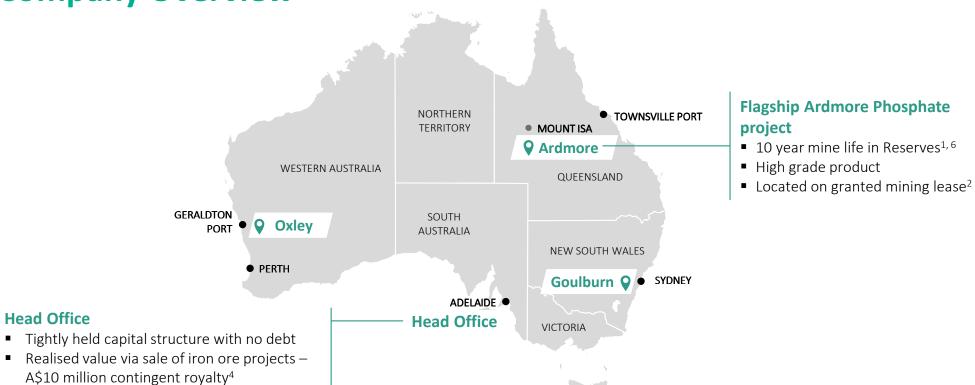


Company Overview

Seeking to unlock value from other projects

including large-scale potassium nitrate project





Note: Footnotes are in appendix



Ardmore Phosphate Rock Project

A uniquely positioned, low risk project set to deliver premium quality product to the fertiliser market, to meet growing demand on the farm





Ardmore Investment Highlights

Project economics¹

- Optimised DFS for Ardmore Project indicated ungeared pre-tax NPV₁₀ of A\$ 269m and IRR of 63%
- Project Capex **A\$69m** providing initial payback of **1.8 years**
- 10 year mine life in Reserves
- Further upside through regional exploration, conversion of Resources to Reserves and other strategic regional opportunities

Regional advantage

- Major sea freight advantage over existing suppliers to the important Asia-Pacific markets
- Almost half the traded phosphate rock market is to Ardmore's target customers in the Asia-Pacific region

Premium quality product

- Premium grade phosphate rock product
- Unique ultra-low cadmium content provides capability to be used by local manufacturers without the need for blending

Phosphate market

- Phosphate fertilizer market currently subdued due to seasonal factors, however medium-term rock price forecast is broadly in line with Ardmore Definitive Feasibility Study (DFS)^{1,6} price assumptions¹⁰
- Global shift away from disputed and high cadmium Moroccan exports from Western Sahara region
- China forecast to move to net importer in the near term
- Limited high grade phosphate rock capacity globally

Risk profile

- Simple open cut operation, low cost, low strip ratio mining located on granted mining lease
- Simple on site processing using traditional and well understood techniques
- Resource well known, DFS^{1, 6} has derisked development and execution risk majority of infrastructure in place

Note: Footnotes are in appendix



Ardmore Project





- One of the few undeveloped high-grade phosphate deposits in the world
- Shallow open-cut, low-cost strip mining without the need for blasting
- No expensive flotation plant required
- Premium phosphate rock concentrate with simple crushing and deslime circuit
- Existing roads, rail, and port
- Significantly lower capital intensity than other projects proposed around the world
- Major freight cost advantage to Australia, New Zealand, Indonesia and Eastern India
- Start-up 70tph modular Start-Up plant erected on site⁹



Optimised Definitive Feasibility Results¹

Attractive economics

Annual production	800,000 wet tonnes		
Mine Life	10 years		l
Pre-production capital	A\$ 69 m	─	 Low capex as utilising existing and under utilised logistics chain
NPV ₁₀ (pre tax unlevered)	A\$ 269 m		
IRR	63%		Based on grade adjusted CRU India
Payback	Less than 2 years		71-75 BPL (33.4% P ₂ O ₅) benchmark forecast
AUD:USD	0.72		Below the 10 year historical real
Life of mine average sales price (real CFR)	US\$ 154/t	←	average benchmark even without
Average operating costs (real CFR)	US\$ 99/t (ex royalties)		grade adjustment for higher grade Ardmore rock

Note: Footnotes are in appendix





Capital Costs estimate (real 2018)

	Result		
Overall estimate accuracy	+/- 15%		
Pre-production capital costs			
Area	A\$ million		
Mining	3.9		
Process plant	16.0		
Mine site infrastructure	11.9		
Road haulage	2.2		
Rail siding	7.6		
General (camp, borefield etc.)	6.2		
Sub-total directs	47.8		
EPCM	6.0		
Other in-directs	5.8		
Owners	1.6		
Sub-total in-directs	13.4		
Growth & contingency – 12%	7.5		
Total pre-production capital	68.7		

Life of mine average CFR operating costs (real 2018)

	Result	
Overall estimate accuracy	+/- 15%	
Average LOM operating costs / DMT of concentrate – Real 2018 \$		
Area	US\$/DMT	
Mining	10	
Processing	10	
Road haulage & siding	9	
Rail & port	45	
Sea Freight	20	
Owners	5	
Total CFR	99	
Royalties	6	

Note: Footnotes are in appendix

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Start-Up Mine

- Start-up 70tph modular Start-Up plant erected on site⁹
- Start-up Mine planned to produce up to 30,000t of premium concentrate
- Total of 10,000t of trial shipments executed with long term target customers^{3,8}
- Trial shipments to support negotiation of long term offtake contracts that will in turn underpin full project financing
- Plant designed to be upgradeable for full-scale 800,000tpa operations



^{*} The Company continues to review its near and long term funding options so as to ensure the start-up phase of the project is fully funded prior to commissioning the Start-Up Plant and commencing mining and processing operations

Note: Footnotes are in appendix

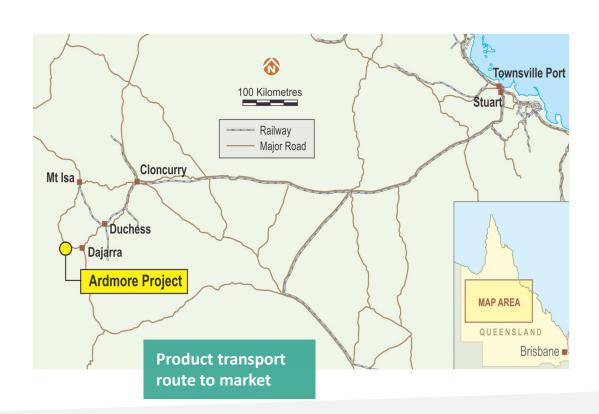
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Logistics – Utilising Existing Latent Capacity

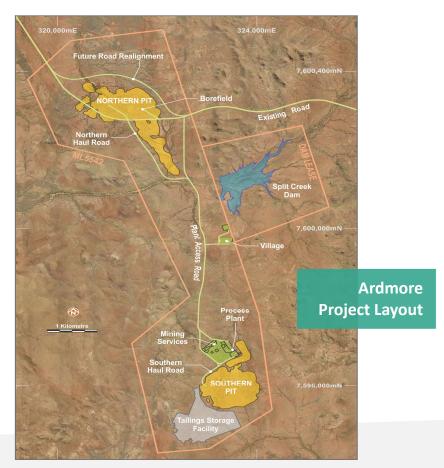
- Various established options to deliver phosphate concentrate to the port of Townsville
- Product trucked using triple road trains on existing roads to an upgraded rail siding at Duchess
- Product railed on the existing Mount Isa rail line to the Port of Townsville
- Container or bulk storage options available
- Ship loading using either existing rotainer cranes or existing bulk shiploader





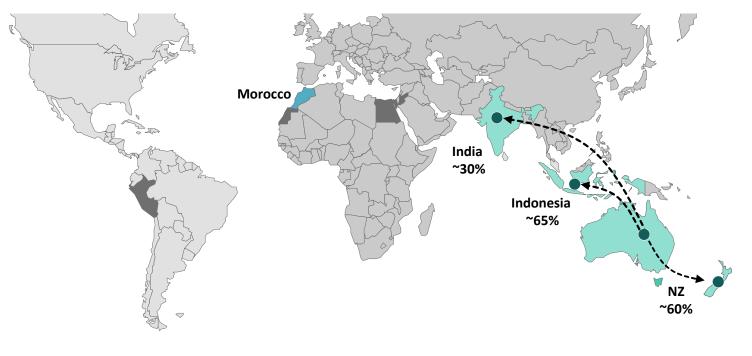






Freight Advantage





Top 5 Exporters to target markets (95% of exports) Target regional markets, >10 million tonnes and growing

--→ Ardmore estimated sea freight saving to target customers v
Morocco

Asia Pacific Target Markets

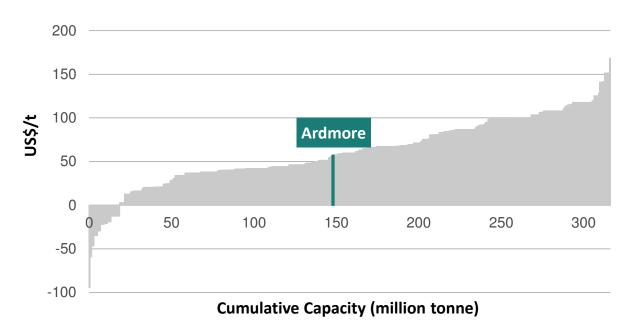
Country	2017 ('000 t)
India	7,855
USA	2,571
Indonesia	2,390
Brazil	1,935
Canada	940
New Zealand	546
Malaysia	410
Pakistan	405
Australia	431
South Korea	298
Japan	260
China	122
Taiwan	118
Others	9,889
Total	28,011



Globally Competitive

Global phosphate rock production business costs

Business costs at capacity in 2023



- The CRU Business Operating Cost curve reflects the sum of site and realization costs
- Costs are adjusted for quality and logistics costs to target market v supply from Morocco as major global producer
- Ardmore benefits from premium grade rock and location advantage
- Ardmore is forecast to be placed in the second quartile of the operating cost curve when compared to forecast global production

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Ardmore Target Markets

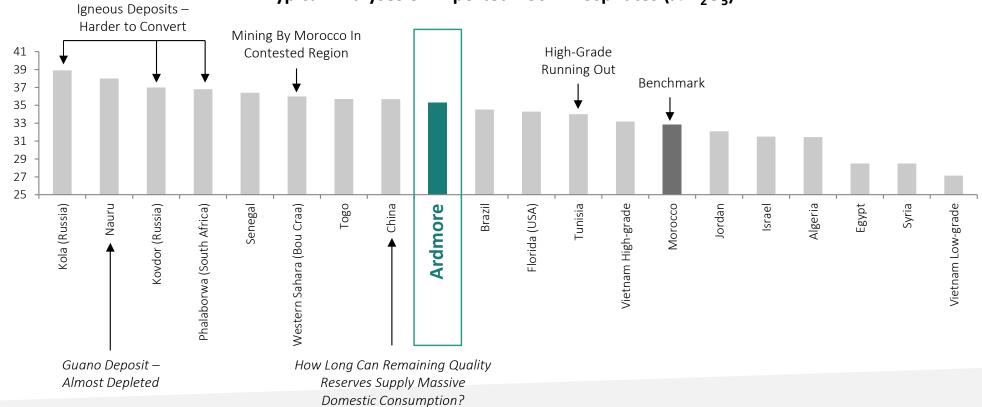
- The traded phosphate rock market is 28 million tonnes of which 12 million tonnes are to Ardmore's target customers in the Asia-Pacific
- Annual demand to target customers is forecast to grow by 5 to 7 million tonnes over the next 5 years
- Traded phosphate rock benchmarks range from 27%-34% P₂O₅ and Ardmore concentrate is above the top end of this range
- Toxic cadmium is a major issue for the industry and Ardmore concentrate has almost none
- Ardmore concentrate has low carbonate levels thereby reducing sulphuric acid consumption and processing costs for target customers
- Australia & New Zealand SSP production reliant on 1 million tonnes of imports, mainly from North Africa
- Unique Ardmore product capable of producing SSP in Australia & New Zealand without the need for blending
- Ardmore has a significant sea freight advantage over the current major phosphate rock suppliers to the Asia-Pacific region
- Proximity to target markets critical with shipping costs expected to rise with regulatory changes towards low sulphur bunker fuel

L4



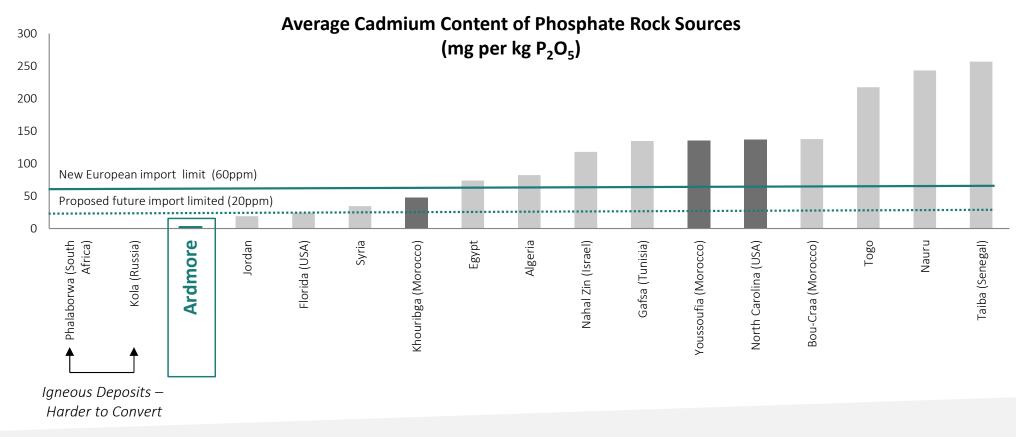
Ardmore Comparison – Concentrate Grade





Source: derived from FAI 2010

Ardmore Comparison – Cadmium Content



Source: derived from Oosterhuis et al 2000

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Forecast CFR Pricing for Ardmore

- Phosphate fertilizer market currently subdued but medium-term rock price forecast is broadly in line with Ardmore Definitive Feasibility Study (DFS) price assumptions¹⁰
- Ardmore to target pricing referenced to the India CFR 71-75% benchmark (32-34% P₂O₅)
- Conservative linear adjustment for premium
 Ardmore phosphate grade (34-35% P₂O₅)
- Significant upside for Ardmore when prices return to normalized levels

Historical & Forecast Phosphate Rock Pricing*



* Source: CRU August 2019





Marketing

- Positive results from two 400 tonne paid run of mine shipments of Ardmore tested by two regional SSP producers with a longer term view to buying premium grade concentrate⁷
- Australia's largest phosphate rock importer Incitec Pivot hold a 20% right of first refusal over available annual production
- 2 x 5,000 tonne shipment contract signed with major manufacturers in the local region with a view to long term offtake commitment^{3,8}



Note: Footnotes are in appendix

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Resources and Reserves



	Category	Million Tonne	P ₂ O ₅ %
Mineral Resources ⁵	Measured	3.3	29.8%
	Indicated	11.1	27.4%
	Inferred	1.7	26.8%
	Total	16.2	27.8%
Ore Reserves ^{1, 6}	Probable	7.3	30.2%
	Proven	2.8	30.3%
	Total	10.1	30.2%

- Low risk and cost, free-dig open cut strip mining
- 1 million dry tonnes per annum processing rate to produce 800,000 wet tonnes of premium grade concentrate

The results were reported under JORC 2012 and Centrex is not aware of any new information or data that materially affects the information contained within the release. All material assumptions and technical parameters underpinning the estimates in the presentation continue to apply and have not materially changed. Note: Footnotes are in appendix

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Summary



Progressing a **high-grade** Queensland phosphate rock project on granted mining lease with **established infrastructure**



Start-up mine deferred pending completion of funding solution¹⁰



Simple open cut mine with **10 year** mine life producing **800,000t per annum**



Constraining costs to preserve shareholder value



Derisked via optimised DFS and attractive project economics, pre-tax NPV₁₀ of A\$ 269 million and IRR of 63%



Looking to unlock from Oxley and Goulburn



Potential to increase mine life via conversion of Resources to Reserves and near mine exploration

Thank you

CENTREX METALS Level 6, 44 Waymouth Street Adelaide, South Australia

T +61 8 8213 3100 F +61 8 8231 4014





The information in this report relating to Mineral Resources is based on and accurately reflects information compiled by Mr Jeremy Clark of RPM, who is a consultant and adviser to Centrex Metals Limited. Mr Clark is a Member of the Australian Institute of Geoscientists and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Clark consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.

The information in this report that relates to Ore Reserves is based on information compiled by Ben Brown, a Competent Person who is a Member of The Australasian Institute of Mining and Metallurgy. Ben Brown is employed by Optima Consulting and Contracting Pty Ltd, an external independent consultancy. Ben Brown has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Ben Brown consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.



References

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