



Ventnor Resources Limited

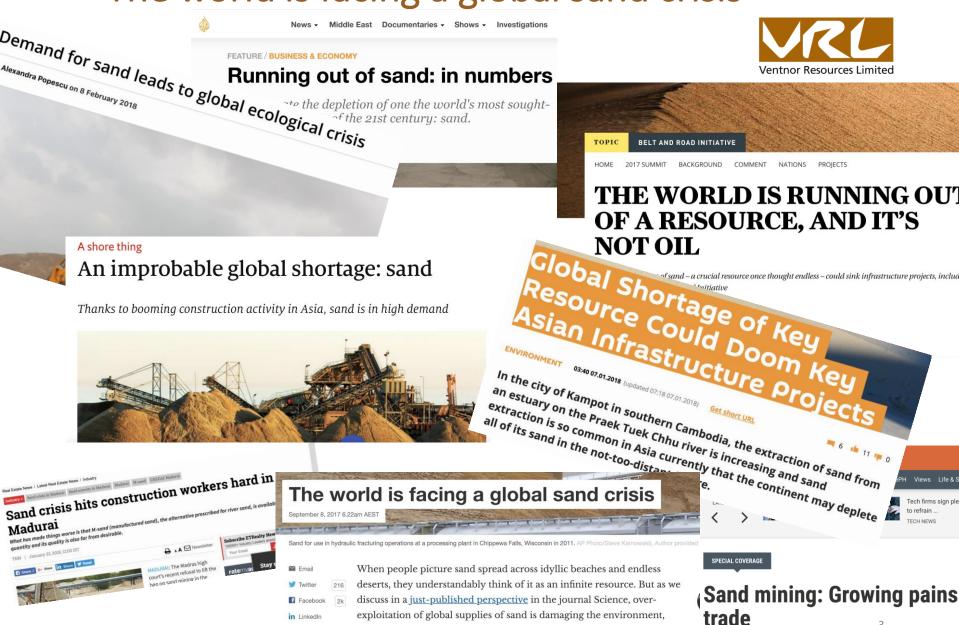
WA Silica Sand Projects

October 2018

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The world is facing a global sand crisis



endangering communities, causing shortages and promoting violent

Unchecked sand mining, with more sand removed each year than what can l

occurring over the course of centuries, is unsustainable

Print

conflict.

Silica Sand Use



Construction Sand Concrete

Glassmaking Float, Containers, Architectural, Thin Film

Metal Casting/Foundry Automobile parts

Oil/Gas Well Stimulation Frac sand/proppant

Metallurgical Ferrous and Non-ferrous Alloys

Paint and Coatings Brightness and durability

Chemical Production Sodium silicate, Silicon gels

Ceramics and Refractories High temp resistance

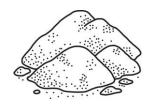
Filtration Water production

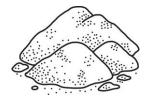
Recreational Inert growing media, Golf bunkers

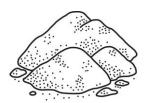
Silica Sand Markets

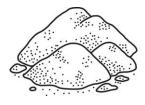


Priority for Marketing









Construction sand

Silica sand for glassmaking

Foundry sand

Frac sand proppant

Market Outlook



Estimated demand for silica sand for glassmaking by region:

Region	% of Global demand
Asia Pacific	47%
North America	20%
Western Europe	16%
Eastern Europe	8%
Africa/Middle East	5%
Central and South America	4%

Source: Freedonia



Market Outlook



Asian glass making production increasing 5-6% per year

Use	Spec	Market in Asia
Float (Plate) Glass	99.5% SiO ₂	60-65 Mt
Container Glass	99.5% SiO ₂	70-75 Mt
Cover Glass (Solar Panels)	99.95% SiO ₂ Low Fe	5-6 Mt
Smart Glass (Ultra Clear)	99.97% SiO ₂ Low Fe	1-2 Mt
Specialist Glass (Thin Screen)	99.97% SiO ₂	500-600 Kt

Source: Stratum Resources





Ventnor's silica sand strategy

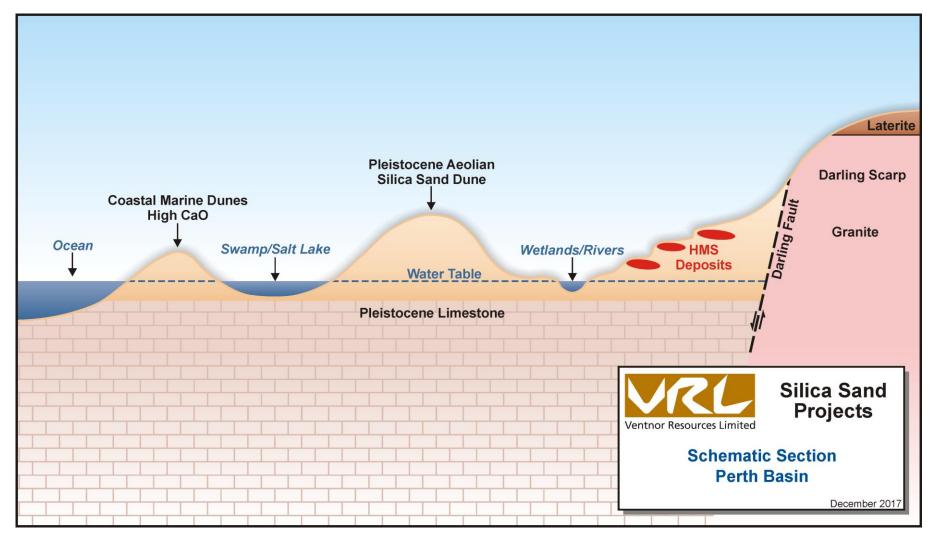
Identify and delineate large scale silica sand resources close to infrastructure

Develop plans for the mining and export of high quality silica sand

Explore opportunities for further processing to value-add

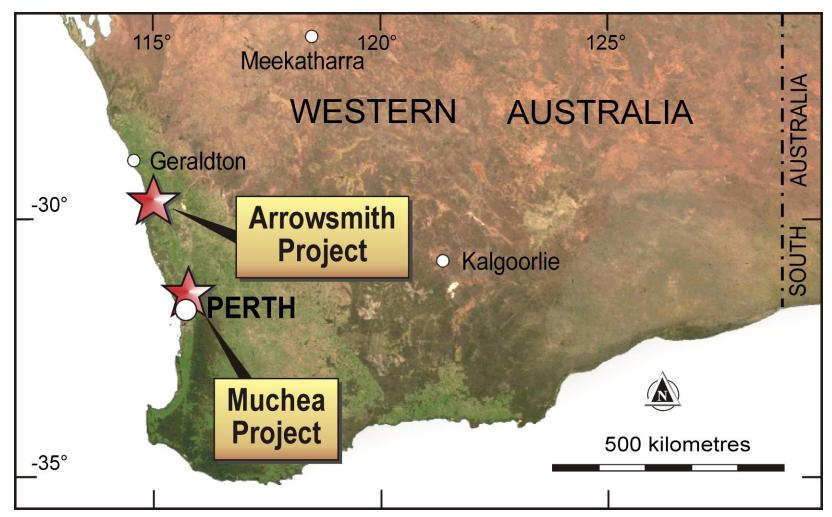
Setting





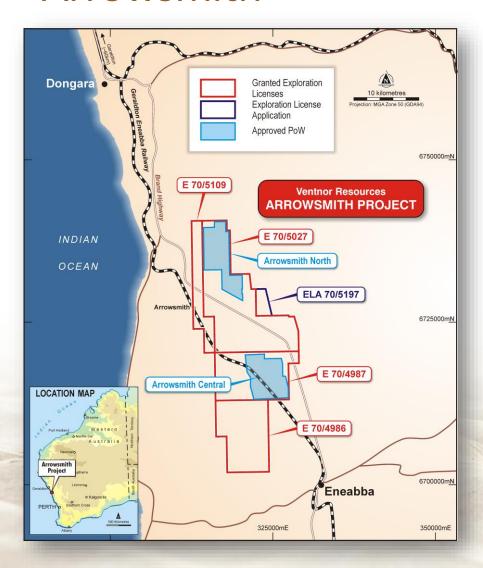
WA Silica Sand Projects





Arrowsmith





- 270km nth of Perth
- South of Dongara with rail connections to Geraldton Port
- Very large-scale potential
- Preliminary testwork confirms glass-making quality

(+99.5% SiO₂)

 Low capital intensity and low environmental impact mining propositions

Arrowsmith North Inferred Resource



193.6 million tonnes @ 98% SiO₂*

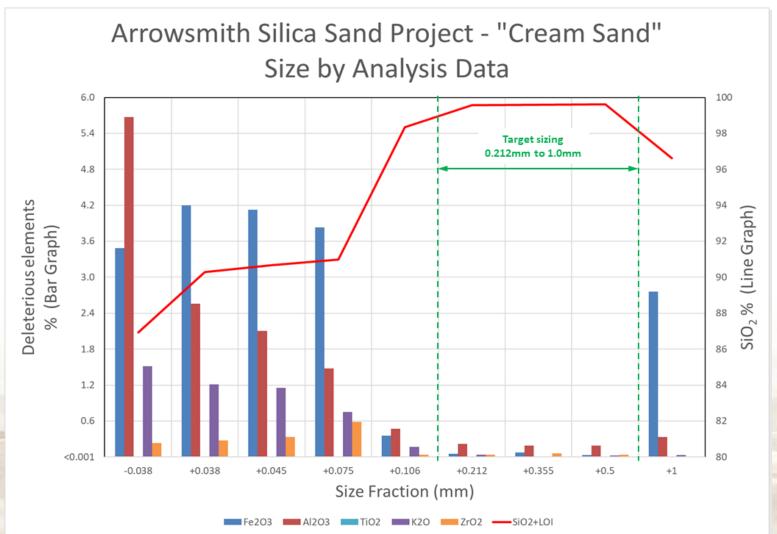
Classification	Domain	Million Tonnes	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	TiO ₂ %	LOI%
	Yellow Sand	149.4	97.7	1.1	0.4	0.2	0.5
Inferred	White Sand	44.2	99.1	0.3	0.1	0.2	0.2
	All Sand	193.6	98	0.9	0.3	0.2	0.4

*Note: Interpreted mineralisation is domained into different sand types based on drill logging data and publicly available soil mapping information, above a basal surface wireframe defined based on the current drill sampling depths. Depletion zones include the upper 0.5 m for rehabilitation purposes, and minor swamp zones in the east and south of the modelled area. Differences may occur due to rounding.

^{*}Details of Arrowsmith North Resource Estimate are contained in the ASX announcement of 2 October 2018

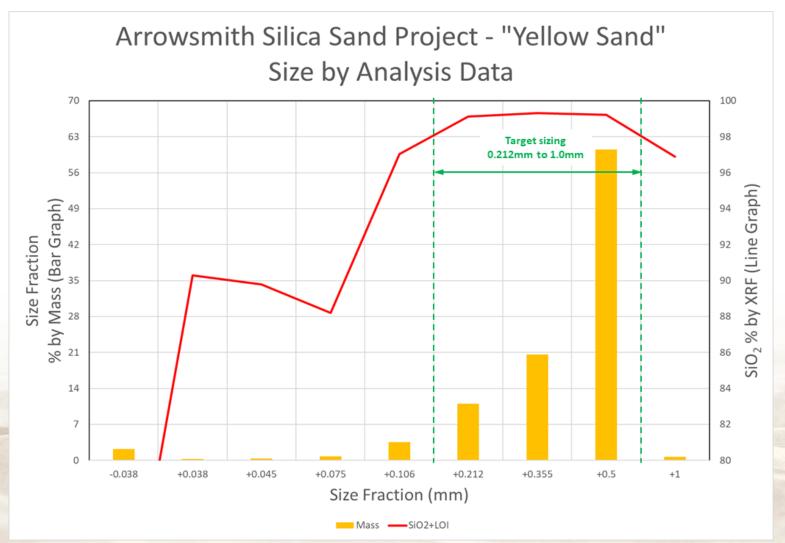
Arrowsmith North Upgrade





Arrowsmith North Upgrade





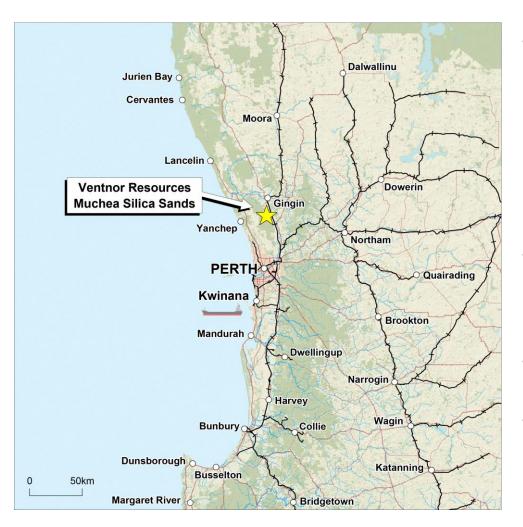
Geraldton Port





Muchea





- Significant high grade Silica Sand deposit
 - 50 km nth of Perth
 - 14 km nth of Muchea
- Transport logistics rail products to Kwinana Port for export
- Adjacent to Brand Highway
- Granted tenure 100% VRX

Muchea Exploration Target



Exploration Target 170-275Mt @ 98-99.5% SiO₂ *

Area	Tonne	s (Mt)	Grade SiO ₂		
Alca	Low	High	Low	High	
Aircore Drilling Area	70	125	98%	99.5%	
Auger Drilling Area	100	150	98%	99.5%	
Total	170	275	98%	99.5%	

^{*}The potential quality and grade of the Muchea Exploration Target is conceptual in nature. There has been insufficient exploration to estimate a Mineral Resource. It is uncertain if further exploration will result in the estimation of a Mineral Resource.

Muchea Exploration Target



Aircore Drill Area Exploration Target

- 37 aircore drill holes
- Exploration Target area 835 ha
- 1.6t/m³ in situ bulk density (meas)
- Between 80% and 100% of area contains high grade silica sand
- Depth of high grade sand 6 to 9 metres

Auger Area Exploration Target

- 50 auger holes
- Exploration Target area 1,800 ha
- 1.6t/m³ in situ bulk density
- Between 80% and 100% of area contains high grade silica sand
- Depth of high grade sand 4 to 5 metres

Auger drilling in the Exploration Target Areas has been completed and is adequate for a JORC-2012 compliant Maiden Mineral Resource estimate but further Aircore drilling is planned for mid to late September 2018 to upgrade the level of confidence and increase the Resource by drilling deeper than the hand-held auger.

Muchea

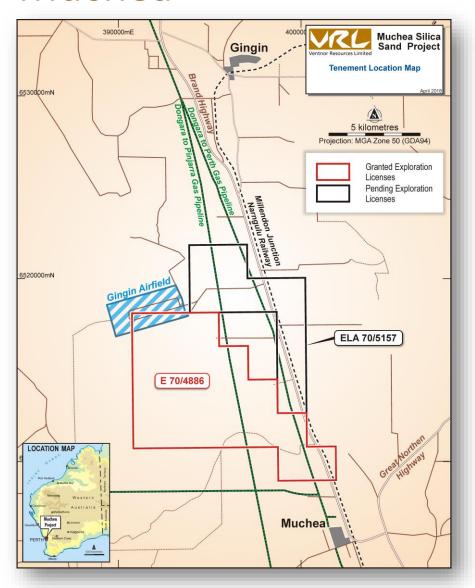




- Muchea is potentially a world class highgrade silica sand deposit
- With an unusually high grade feed stock simple processing can provide almost any required grade product

Muchea





- Due diligence drilling indicated high-grade SiO₂ (+99.7% Avg)
- Preliminary testwork indicates processing can upgrade sand to specialised glass quality
- Current logistics under-utilised with significant interest from operators

Proposed Exploration Program





Drilling using 4WD-mounted AC rig and hand held auger



Proposed Exploration Program

- Exploration to date is adequate for Inferred Resources following QA/QC review
- All exploration above the water table
- Closer spaced drilling required for an Indicated Resource planned for January 2019
- Very low cost shallow drilling (10-15m) in free running sand
- Sand 2-3% moisture (no dust...)
- ISBD determination completed
- Significant testwork programs either completed or underway
- Mining will require no dewatering



Development Program

- First Pass drilling by AC and hand auger completed on all projects
- Third iteration bulk testwork will determine potential products and required processing equipment
- Testwork will also produce final quality samples to send to potential importers in Japan, China, India, Vietnam, Thailand, Taiwan and Korea
- Wet processing by conventional plant (no chemicals)
- Finalise logistics chain for access to rail and port facilities to export sand from Arrowsmith through Geraldton and from Muchea through Kwinana
- Spring environmental studies completed
- Preliminary engineering underway ±15% capital cost estimate
- Feasibility study components to be completed by end of 2018

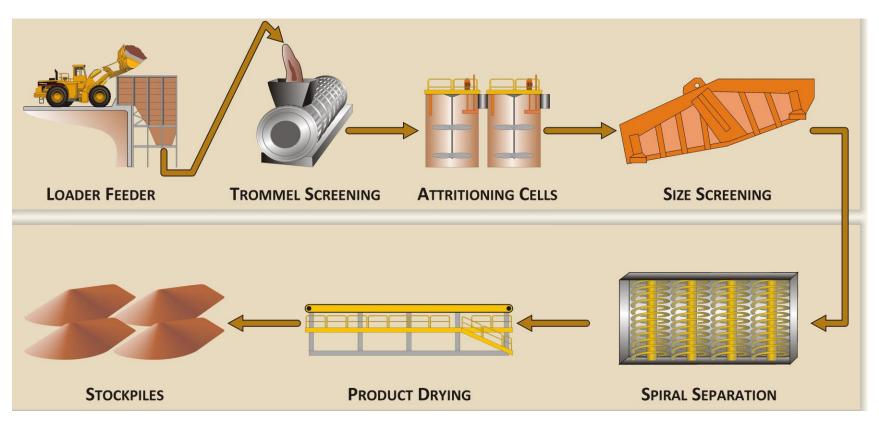


Processing



Established processing techniques

(no chemicals, no dust)



Corporate & Capital Summary

Share Code (ASX)	VRX Shares
Shares on Issue	364.7 m
Options issued	46.25 m
ASX 52 week high/low	\$0.18/\$0.009
Cash	\$1.7 m
Debt	Nil
Market Capitalisation	\$47 m

Directors

Paul Boyatzis

Non-Executive Chairman

Bruce Maluish

Managing Director

Peter Pawlowitsch

Non-Executive Director





Investment Considerations



EMERGING AUSTRALIAN STRATEGIC SILICA SAND PRODUCER

OUTSTANDING
PROJECT
ECONOMICS
AND LOGISTICS

TO CAPITALISE
ON ROBUST
MARKET
OUTLOOK AND
DEMAND

POTENTIAL
LARGE SAND
RESOURCES AND
PRODUCTION

RAPID PATHWAY
TO FINANCING
AND
PRODUCTION

OTHER
PROSPECTS
UNDER
INVESTIGATION



Competent Person's Statement

The information in this document that relates to Arrowsmith Exploration Results is based on data collected under the supervision of Mr David Reid, in his capacity as Exploration Manager for Ventnor. Mr Reid, BSc (Geology), is a registered member of the Australian Institute of Geoscientists and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and the activity being undertaken to qualify as a Competent Person under the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Reid consents to the inclusion of the data in the form and context in which it appears.

The information in this document that relates to Mineral Resources is based on information compiled by Mr Grant Louw, under the direction and supervision of Dr Andrew Scogings, who were both full-time employees of CSA Global at the time of the Mineral Resource estimation. Dr Scogings is a Member of the Australasian Institute of Mining and Metallurgy and a Member of the Australian Institute of Geoscientists. He is a Registered Professional Geologist in Industrial Minerals. Dr Scogings has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as Competent Person as defined in the 2012 Edition of the Australasian Code for the Reporting of Exploration Results, Mineral Resources, and Ore Reserves (JORC Code). Dr Scogings consents to the disclosure of information in this report in the form and context in which it appears.