



THE LAKE WELLS POTASH PROJECT

Australian Potash for Australian Farmers

“CURRENTLY 100% OF AUSTRALIA’S POTASH IS IMPORTED. THE DEVELOPMENT OF A LOCAL SOURCE OF POTASH WOULD BE A SIGNIFICANT WIN FOR AUSTRALIAN FARMERS”

CORPORATE OVERVIEW

FOCUSSED ON **STAKEHOLDER RETURN**

CAPITAL STRUCTURE

ASX: GPH

SHARES ON ISSUE*	145.9
OPTIONS ON ISSUE*	96.5
MARKET CAP @ \$0.08	\$11.6m
CASH*	\$1.4m
ENTERPRISE VALUE	\$10.2m

BOARD & MANAGEMENT / SHAREHOLDERS

MATT SHACKLETON	EXECUTIVE CHAIRMAN
BRENTON SIGGS	TECHNICAL DIRECTOR
DEAN GOODWIN	NON-EXEC DIRECTOR
CARSTEN KRAUT	PRINCIPAL HYDROLOGIST
YANDAL INVEST. (CREASY)	19.9%*
BOARD & MGMT	9.0%
TOP 20	41.0%

* Post transformational deal – see slide 6 shareholder approval May 2016



UNIQUE INVESTMENT PROPOSITION

AUSTRALIAN POTASH FOR AUSTRALIAN FARMERS

- WA brine hosted Sulphate of Potash (SOP) project
- Aiming to feed the domestic demand for SOP which is currently 100% imported
- Superior mining jurisdiction in the eastern goldfields of WA
- Simple, well established brine extraction method
- Excellent infrastructure already in place
- Uniquely targeting sub-\$100m CAPEX development (most potash projects >\$250m)
- Emphasis on achieving strong economic returns rather than focusing on big resources and big production profiles – “*fast track first production, then grow*”
- Ground floor investment opportunity with GPH capitalised at only \$11m
- Project primed for maiden JORC Resource Q2 2016

LAKE WELLS



LOCATION



TRANSFORMATIONAL DEAL



BRIEF HISTORY



LOGISTICS



THE PALAEOCHANNEL

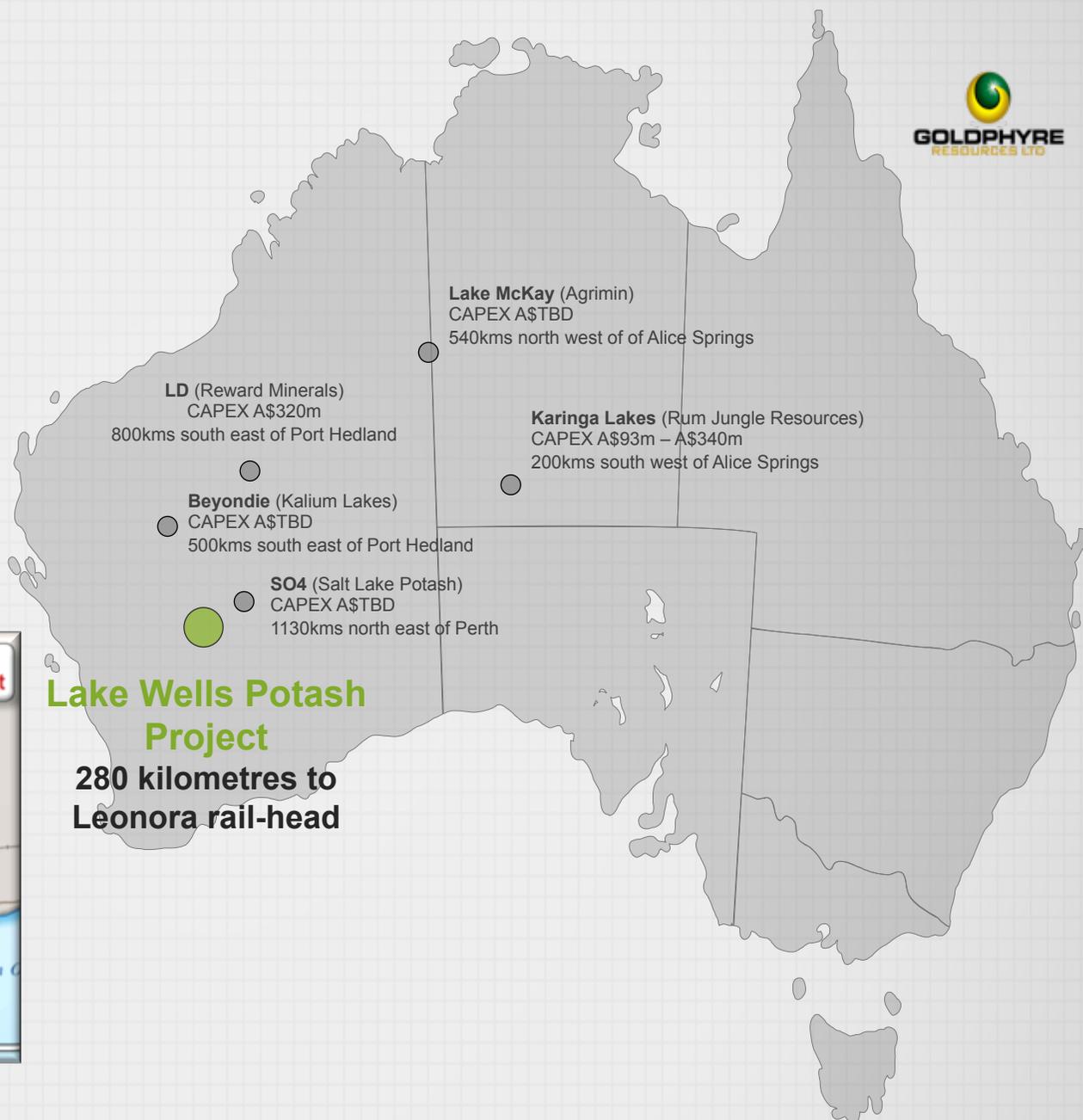


EXPLORATION TARGET



LAKE WELLS POTASH PROJECT

IDEALLY POSITIONED TO
POTENTIAL END USERS



TRANSFORMATIONAL DEAL

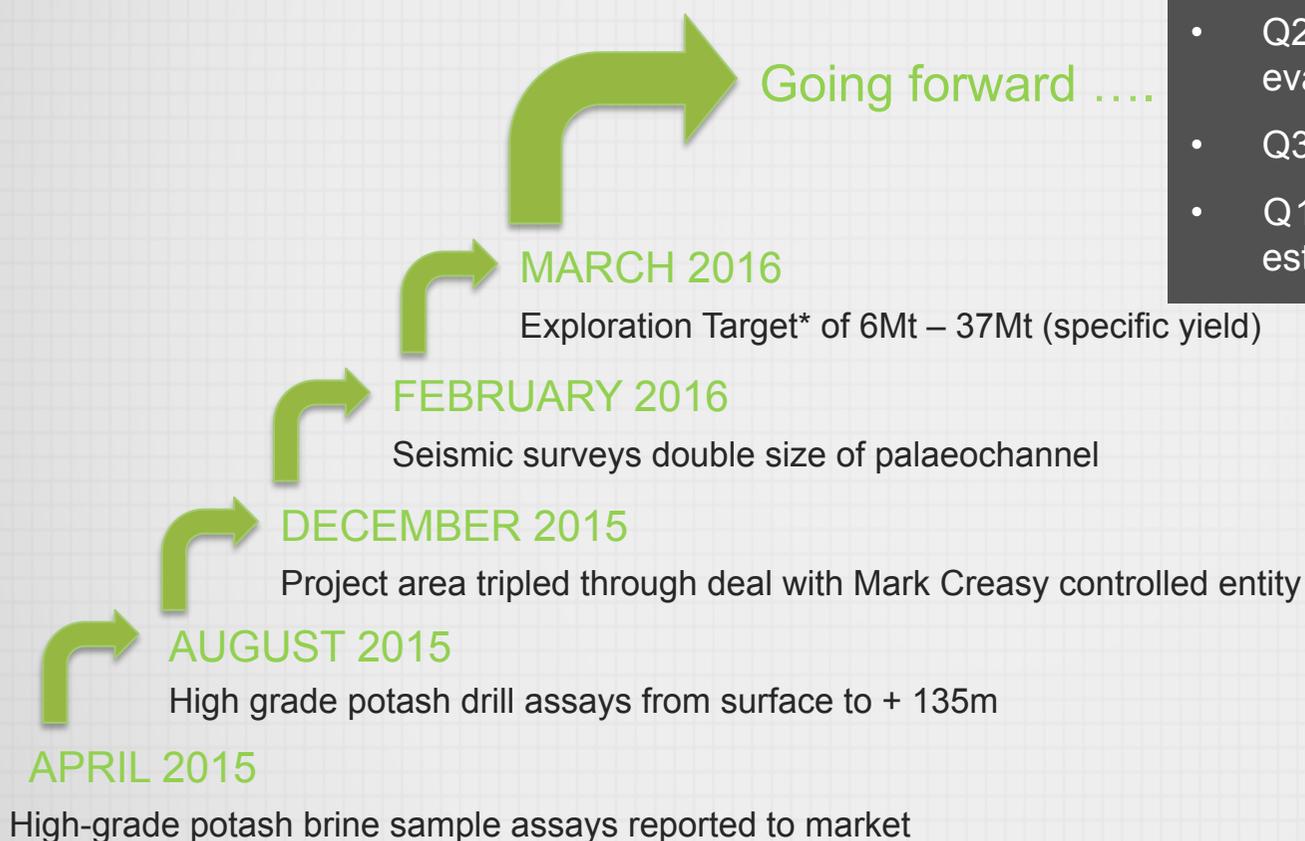
LAKE WELLS PROJECT AREA TRIPLED IN SIZE

- Transformational deal with one of the industry's most prominent players
- Deal with Mark Creasy owned Lake Wells Exploration Pty Ltd (LWE) announced December 2015*, closes by May 2016
- Triples the size of Goldphyre's Lake Wells Potash Project
- Footprint extended to over 200km² of lake surface area
- Mark Creasy owned Yandal Investments Pty Ltd to become Goldphyre's major shareholder with 19.9% by May 2016
- Currently drilling LWE tenements

* See ASX Announcement 2 December 2015

BRIEF HISTORY

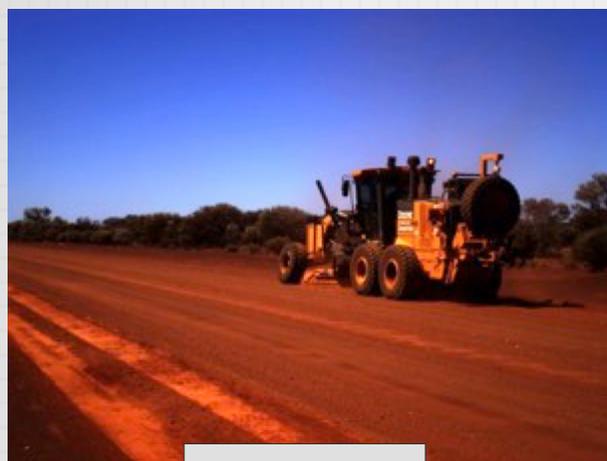
RAPID PROGRESS



- Q2 2016: Maiden JORC Resource estimate
- Q2/Q3 2016: test bore & pumping trials, evaporation pond trials, process test work
- Q3 2016: JORC Resource upgrade
- Q1 2017: Measured JORC Resource estimate

REGIONAL INFRASTRUCTURE

Goldphyre's Lake Wells Potash Project sits adjacent to an air-strip, with road-train capacity haulage roads to the project's door step



STATION
ROAD 85km



GREAT
CENTRAL
ROAD 90km



LAVERTON-
LEONORA
ROAD 125km



LEONORA
RAIL HEAD
280km

LOW CAPEX PRODUCTION PATHWAY (TARGETING SUB \$100M)

EXPLORATION TARGET

SPECIFIC YIELD considers the recoverability of the brine containing potash

Exploration target using specific yield

6Mt – 37Mt

Of recoverable SOP, at a grade range of
8,900 mg/l – 13,900 mg/L

TOTAL POROSITY is a measure of the in-situ brine volume without regard to recoverability

Exploration target using total porosity (for industry comparison purposes ONLY)

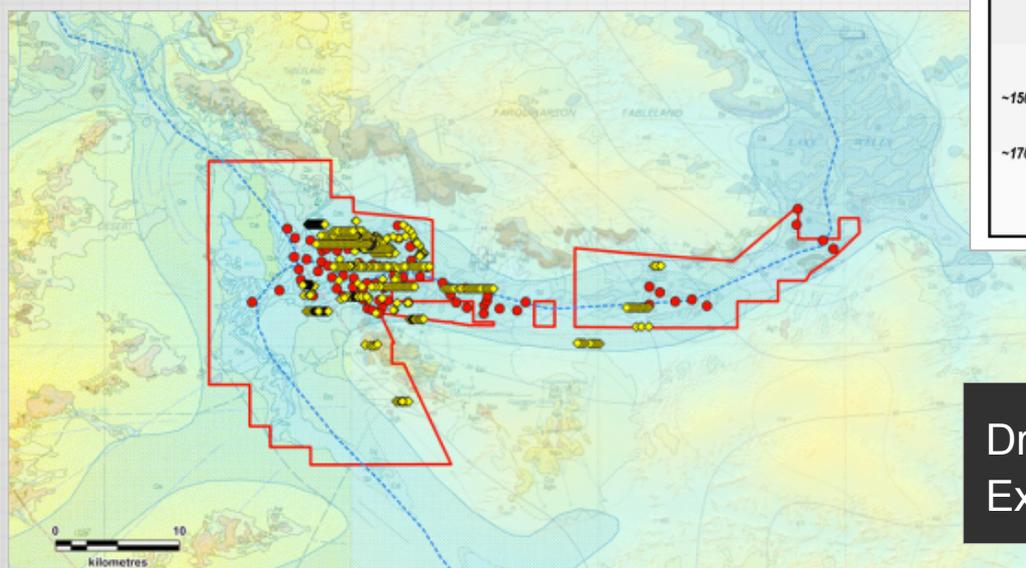
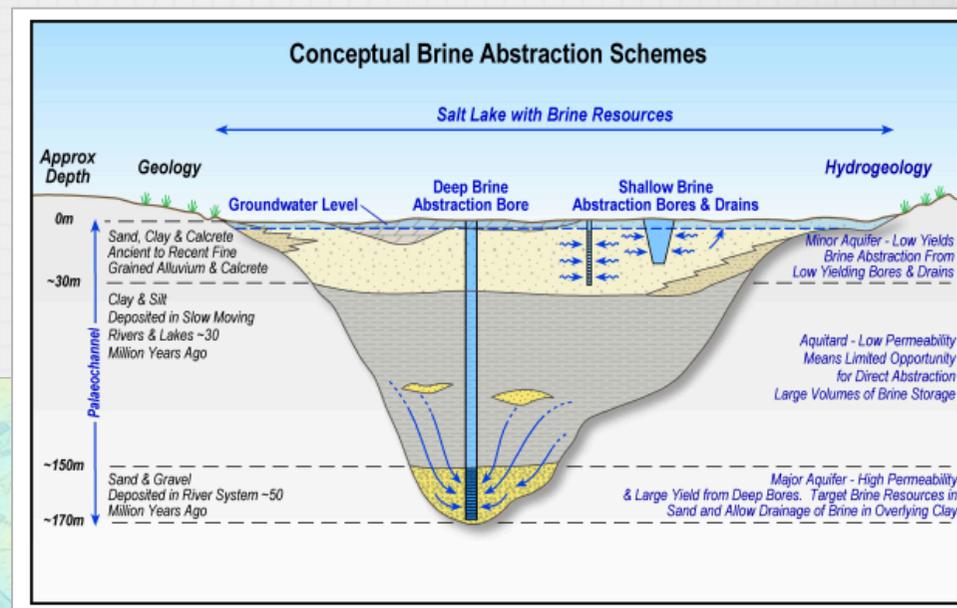
79Mt – 123Mt

Of in-situ SOP, at a grade range of
11,400 mg/l – 13,900 mg/L

TARGETING SO₄ PRODUCTION OF 75Kt to 100Kt per annum

THE PALAEOCHANNEL

Pumping brine from palaeochannels is a common, simple process

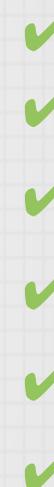


Drilling currently underway to upgrade Exploration Target on +40km of palaeochannel

BASAL SAND AQUIFER HAS HIGHEST SPECIFIC YIELD

GOLDPHYRE'S LAKE WELLS POTASH PROJECT IS A VALUABLE ASSET IN A PROMISING LOCATION.....

- POTASH PROJECTS NEED GRADE AND SCALE
- BULK PROJECTS NEED INFRASTRUCTURE
- EVAPORATION PROJECTS NEED A CONDUCIVE ENVIRONMENT
- TRIED AND TESTED PRODUCTION METHODS DERISK DEVELOPMENT
- BRINE FROM PALAEOCHANNELS IS BEING RECOVERED ALL OVER THE EASTERN GOLDFIELDS
- LAKE WELLS IS A PALAEOCHANNEL PUMPING PROJECT



WHAT NEXT?

DERISKING LAKE WELLS

	Q1 2016	Q2 2016	Q4 2016	Q1 2017
Exploration target	<ul style="list-style-type: none"> • Incorporate LWE data into exploration target data area • COMPLETE 	<ul style="list-style-type: none"> • n/a 	<ul style="list-style-type: none"> • n/a 	<ul style="list-style-type: none"> • n/a
Inferred resource	<ul style="list-style-type: none"> • Collect core for porosity and specific yield analysis 	<ul style="list-style-type: none"> • Brine sampling across horizons, geophysics • PUBLISH Resource 	<ul style="list-style-type: none"> • n/a 	<ul style="list-style-type: none"> • n/a
Indicated resource	<ul style="list-style-type: none"> • Porosity/Specific yield • More brine chemistry • Installation of piezometers 	<ul style="list-style-type: none"> • Test bore drilling • Downhole geophysics • Numerical modelling 	<ul style="list-style-type: none"> • Water abstraction environmental analysis • PUBLISH Resource 	<ul style="list-style-type: none"> • n/a
Measured resource	<ul style="list-style-type: none"> • n/a 	<ul style="list-style-type: none"> • Numerical modelling • Inter-bore continuity test-work 	<ul style="list-style-type: none"> • Final aquifer test-work including permeability, specific yield, water chemistry variability 	<ul style="list-style-type: none"> • PUBLISH Resource

DERISKING LAKE WELLS

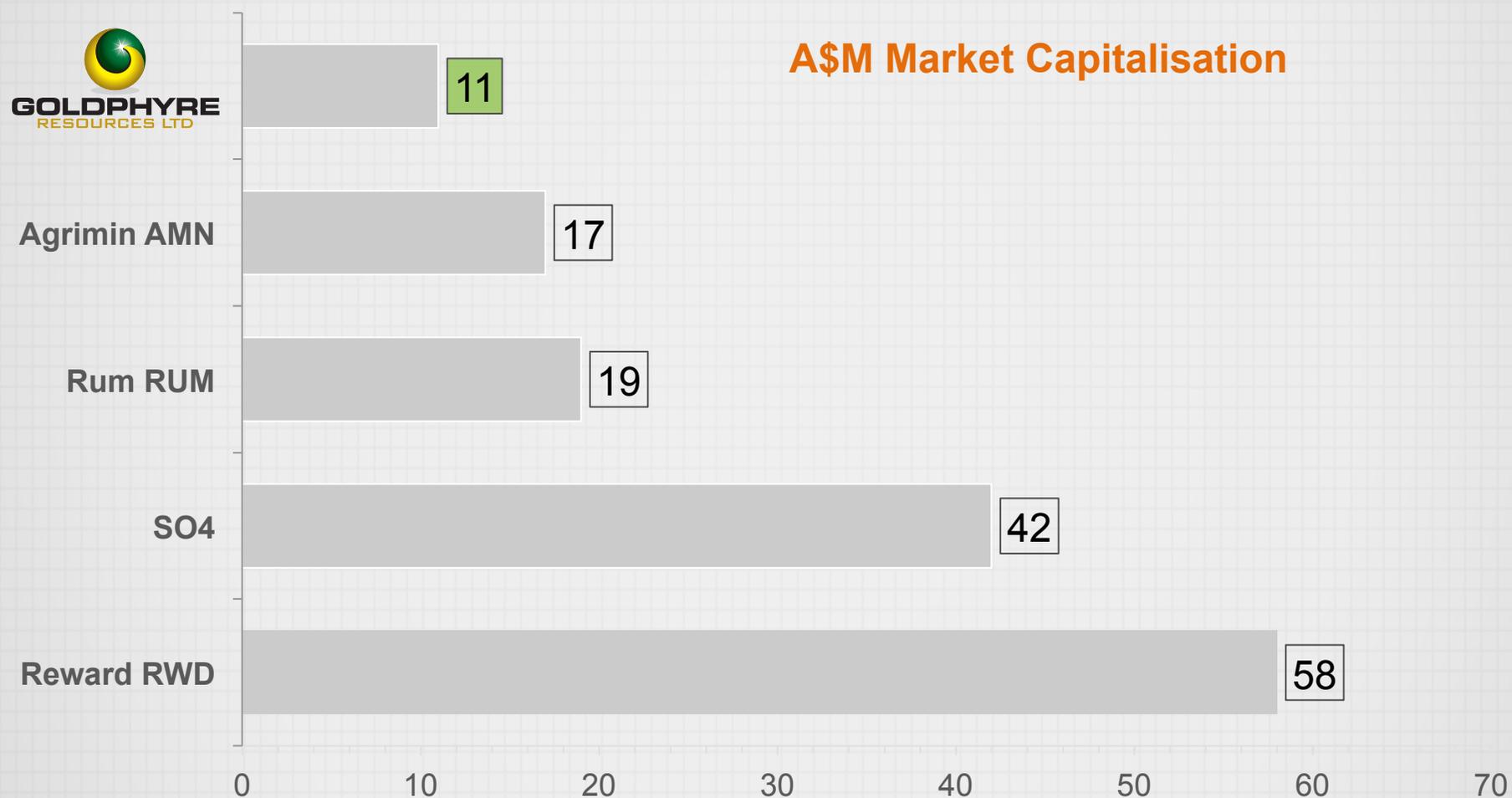
	Exploration target	Inferred resource	Indicated resource	Measured resource
Desktop studies		<i>n/a</i>	<i>n/a</i>	<i>n/a</i>
Auger sampling				<i>n/a</i>
Core drilling	<i>n/a</i>			
Exploration drilling				
Geophysics				
Test bores	<i>n/a</i>	<i>n/a</i>		
Modelling		<i>n/a</i>		
Environmental	<i>n/a</i>	<i>n/a</i>		
Reporting				
	<i>Not started</i>	 	 	<i>Complete</i>

COMPELLING OPPORTUNITY

IDEALLY **POSITIONED** FOR RAPID PROJECT DEVELOPMENT AND GROWTH

- Very strong grades and scale
- Moving quickly towards de-risked JORC Resource Estimates
- Drilling currently underway
- Well funded for next program of works: test pumping Q3 2016
- Strong and supportive shareholder base
- Tried and tested abstraction process: not reinventing the wheel
- Significant infrastructure already in place
- Emphasis on achieving strong economic returns rather than focusing on big resources and big production profiles – “*fast track first production, then grow*”

NEW EMERGING POTASH **PLAYER**



GOLDPHYRE TECHNICAL



POTASH 101



LOGISTICS



PROJECT SPECS



PROJECT ECONOMICS



POTASH 101

Potassium: one of the 3 essential macro-nutrients

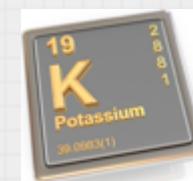
Sulphate of Potash – SOP: the premium source of K from potash

Phosphorous

Nitrogen

MACRO NUTRIENTS

Potassium



POTASSIUM BEARING SALTS & COMPOUNDS ARE CALLED POTASH

GLOBAL
CONSUMPTION
C. 56MT PER
ANNUM

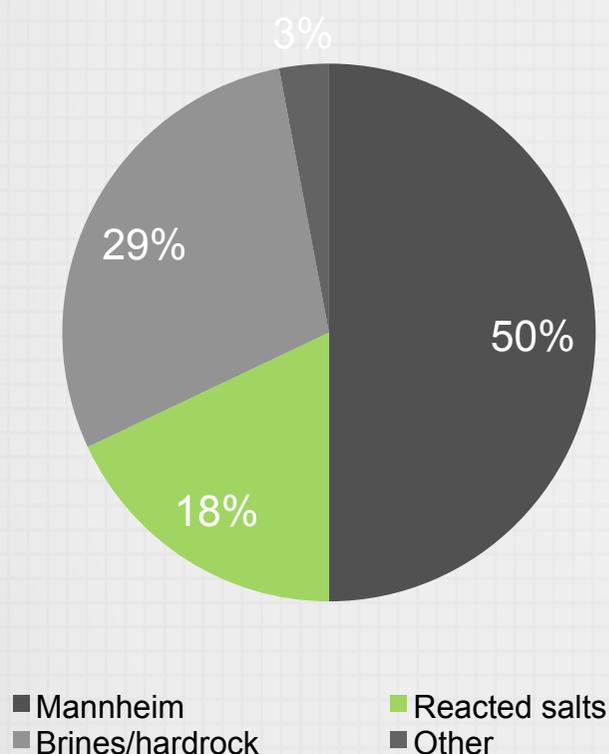
OTHER
10%

SOP
10%

MOP
80%

POTASH SOP

SOP is produced in several ways: the most expensive is the Mannheim process, the least expensive is through brine-evaporation



\$US200

The average cost of production for a tonne of SOP from a brine hosted-evaporative operation

\$US650

The average price of a tonne of SOP fob Vancouver

\$A1,100

What an Australian farmer is paying for a tonne of IMPORTED SOP at their farm gate (+/-)

50,000 t

Maximum amount the Australian market has imported in SOP (+/-)

SOP PRODUCTION

SOP held in brine is produced through evaporation



Pumping

The palaeochannel bore-field pumps brine into evaporation ponds



Evaporating

Brines pass through evaporation ponds, dropping out salts along the way



Harvesting

Salts are harvested and transported to plant for conversion

Converting

Schoenite is converted, or crystallised, into SOP



Processing



Freight to central distribution point

Using **existing** high grade road infrastructure, Goldphyre will test the feasibility of distributing SOP product out of a centrally located, wheatbelt location

COMPETENT PERSONS STATEMENTS

The Hydrogeological information in this report has been prepared by AQ2 with direction and review by Jeffery Lennox Jolly. Mr Jolly is a principal hydrogeologist with AQ2 and has over 30 years of international experience. He is a member of the AusIMM and the International Association of Hydrogeologists. Mr Jolly has experience in the assessment and development of palaeochannel groundwater resources, including the development of water supplies in hypersaline palaeochannels in Western Australia. His experience and expertise is such that he qualifies as a Competent Person as defined in the 2012 edition of the “Australian Code for Reporting of Exploration Results, Mineral Resources and Ore reserves”.

Jeff Jolly consents to the inclusion in this report on the matters based on his information in the form and context in which it appears.

The information in this report that relates to Exploration results, Mineral Resources or Ore Reserves is based on information compiled by Brenton Siggs who is a member of the Australasian Institute of Geoscientists. Brenton Siggs is contracted to the Company through Reefus Geology Services and is a Non-Executive Director (Exploration Manager) of Goldphyre Resources Limited. Brenton Siggs has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity currently being undertaken 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 Siggs is a shareholder and director of Goldphyre WA Pty Ltd, a company that holds ordinary shares and options in the capital of Goldphyre Resources Limited (Goldphyre Resources Limited, Annual Report 2015).

Brenton Siggs consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

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