



## WORLD CLASS GROWTH OPPORTUNITY WITH PREMIUM SPECIALTY FERTILIZERS



SALT LAKE POTASH (SO4) PLANS TO PRODUCE **PREMIUM SULPHATE OF POTASH (SOP)** FROM SALT LAKES











Lowest Quartile Opex & Capex







Simple, Robust Production Process



Large Scale, Very Long Life Assets



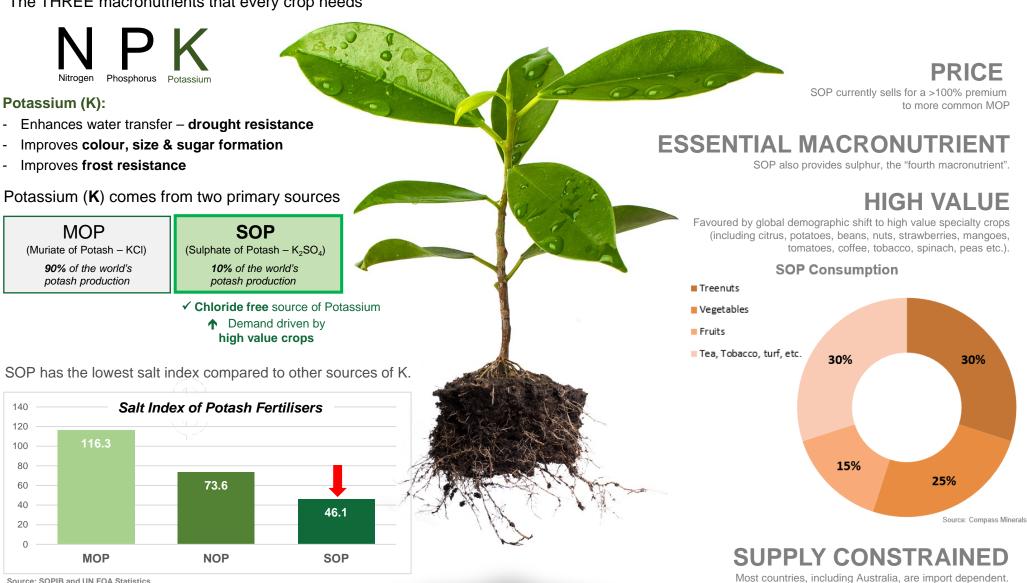
First
World Project
Jurisdiction
with Great Local
Advantages



## SUSTAINABLE, PREMIUM, ORGANIC PRODUCT



The THREE macronutrients that every crop needs



This is becoming an important factor as soil salinity rises globally. Especially in Asia which has half the world's salt affected soils.

Source: SOPIB and UN FOA Statistics

### **FAVOURED BY AGRICULTURAL MEGATRENDS**

FERTILIZERS ARE FUNDAMENTAL TO IMPROVING AGRICULTURAL YIELDS AND ADDRESSING FUTURE IMBALANCE BETWEEN FOOD DEMAND AND SUPPLY



By 2050 the world's population will reach 9.1 billion, 34% higher than today. (UN Study)



**CHANGING DIETS** +63%

> Protein per capita increasing (80g to 130g per day). Urbanisation, higher incomes are driving diets towards higher valued crops (UN Study)



**ARABLE LAND** 

-14%

Reduced arable land per capita  $(2,100\text{m}^2)(2010) - 1,800\text{m}^2$ (2050)) drives need for increased productivity (UN FOA)



**MAJOR PRODUCTIVITY INCREASE REQUIRED** 

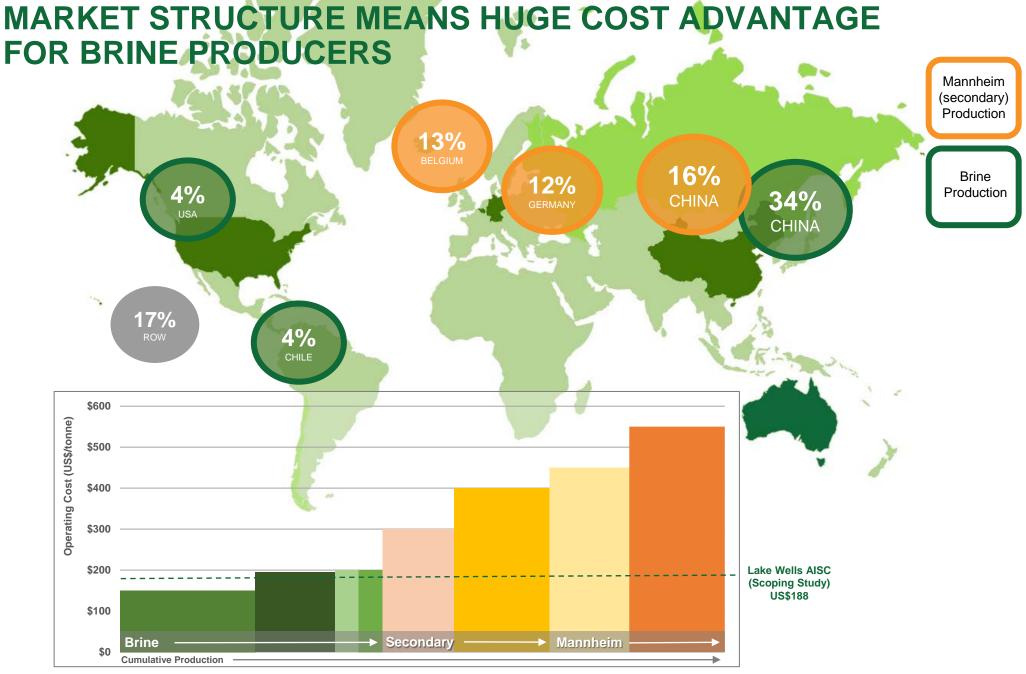
Fertilizers and scientific application of fertilizers, are a key instrument to improve productivity and yields.



#### **ASIAN DEMOGRAPHIC SWEET SPOT**

#### EXPONENTIAL GROWTH IN THE MIDDLE CLASS IN THE ASIA PACIFIC REGION





Source: Greenmarkets, Company's Reports and Announcements

## FIRST WORLD PROJECT JURISDICTION WITH GREAT LOCAL ADVANTAGES

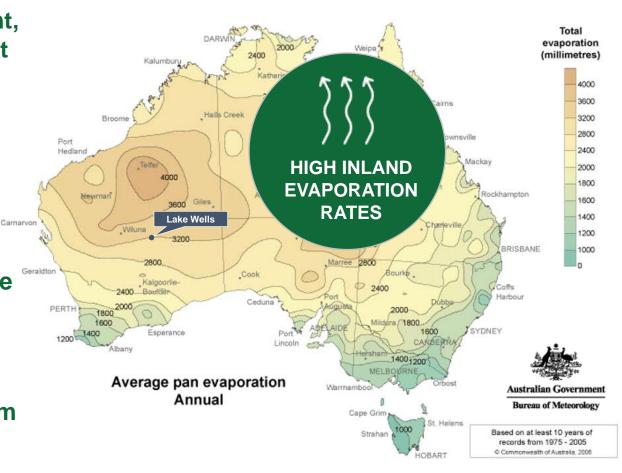


Reliable first world environment, low royalty regime, government support

Very low land costs, negligible competitive uses

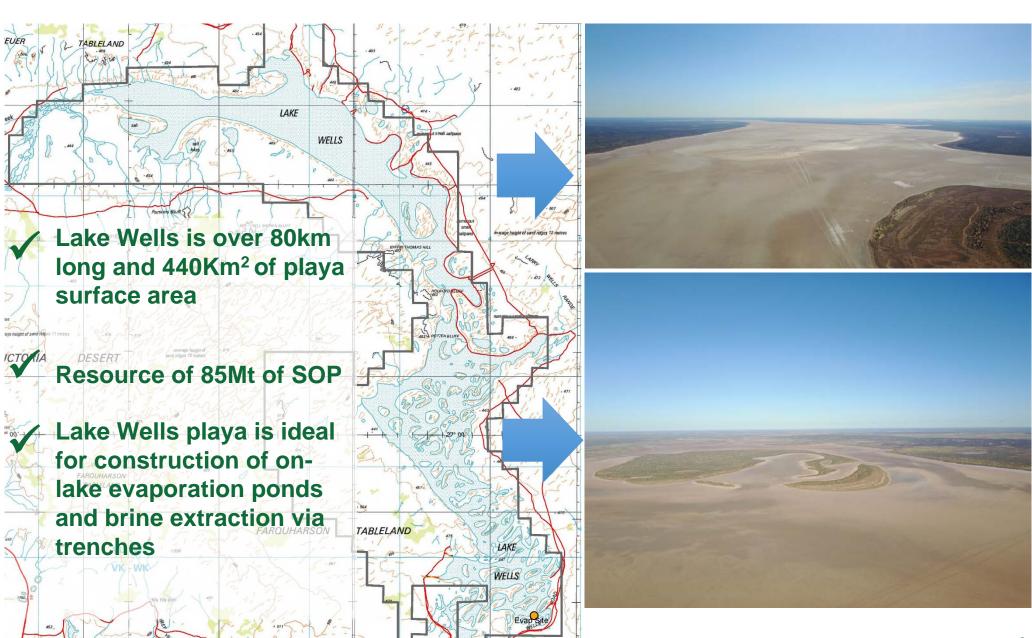
✓ Goldfields mining infrastructure and skills base

✓ Consistent brine chemistry from homogenous paleosystems



## **VERY LARGE SCALE, LONG LIFE ASSETS**

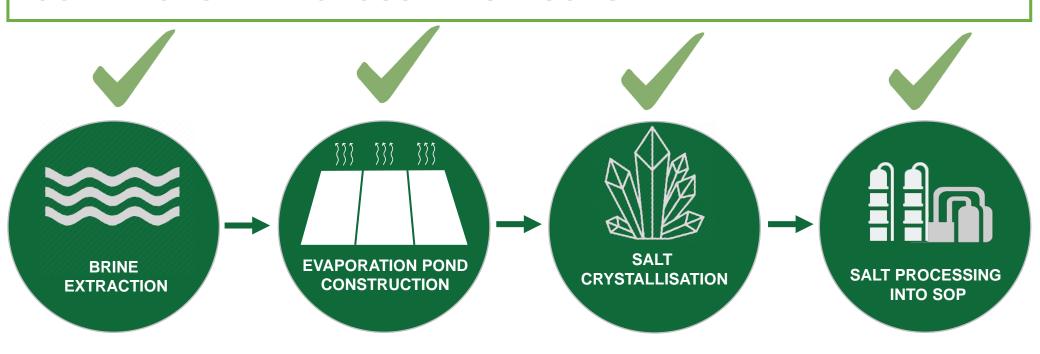




## SIMPLE PRODUCTION PROCESS ROBUST UNDER SITE CONDITIONS



EACH MAJOR TECHNICAL FOUNDATION FOR PRODUCTION OF SOP FROM LAKE WELLS BRINE HAS BEEN TESTED AND VERIFIED TO A STANDARD PREVIOUSLY UNSEEN IN AUSTRALIA UNDER SITE CONDITIONS AND ACROSS ALL SEASONS



# **BRINE EXTRACTION**

#### BRINE IS EXTRACTED FROM A SYSTEM OF TRENCHES AND BORES



Salt Lake Potash has pump tested 10 trenches and 4 bores to produce a reliable long term hydrological model for brine production.

Over 20ML of brine has been extracted since 2015.

Brine will initially be produced from shallow low cost (capex and opex) trenches and subsequently by deeper (120m) bores.



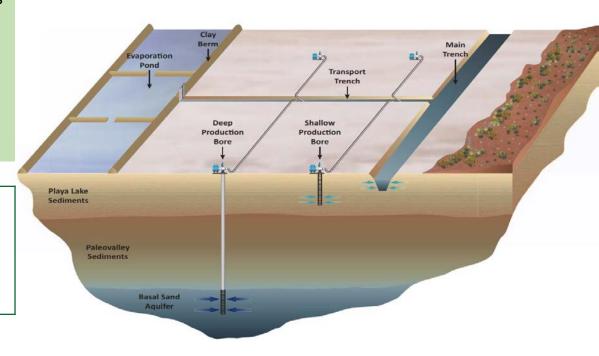
**Very large** homogenous resource



Long term pump testing



Reliable Hydrological model













### **EVAPORATION POND SYSTEM**



#### BRINE IS THEN TRANSPORTED INTO A SERIES OF LARGE EVAPORATION PONDS

Salt Lake Potash has tested and validated low cost, on-lake evaporation ponds constructed from in-situ clay materials.

The capex saving compared to plastic lined ponds are very substantial (95% for large scale ponds).

Over 300 test pits and holes have demonstrated the impermeable clays are pervasive and shallow across the lake.

Leakage losses less than 0.125mm/day for a 400Ha pond.



Low cost pond materials available in-situ



Pond material tested & verified



Ponds constructed & tested on site





## SALT CRYSTALLISATION



POTASSIUM RICH HARVEST SALTS ARE PRODUCED BY FRACTIONAL CRYSTALLISATION

Salt Lake Potash has produced potassium rich harvest salts, on site at Lake Wells <u>through all seasons</u>, since September 2016, in conjunction with comprehensive on-site weather data collection.

Over 200t of brine has been evaporated and over 5t of harvest salt produced.

This has generated an irreplaceable database of salt precipitation characteristics which cannot be duplicated via a lab and which is critical to pond process design.



Lab testwork on lake brines



Several tonnes of produced Harvest Salts at site



Production of Harvest Salts through all seasons







### HARVEST SALT PROCESSING INTO SOP

## SALT LAKE

#### POTASSIUM RICH SALTS ARE HARVESTED AND PROCESSED INTO SOP

The Company has completed a comprehensive program of process development testwork to verify and enhance the Lake Wells process model and produce samples for customers.

Raw brine and/or Lake Wells harvest salts have already produced substantial samples of SOP from ongoing laboratory work at Hazen Laboratories (Colorado), SGS (Perth) and Bureau Veritas (Perth).

The world's leading potash laboratory, Saskatchewan Research Council (SRC), has completed comprehensive testwork to validate the SOP production flowsheet. SRC continues to enhance the process flowsheet and also produce further customer and testwork samples.



Lab testwork to produce SOP from site produced salts



Substantial SOP samples produced for distribution



Process
flowsheet
tested &
optimised by
world's leading
laboratory

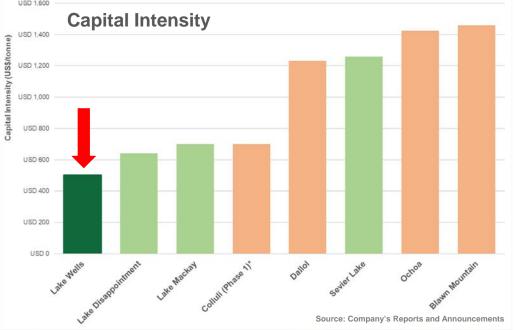


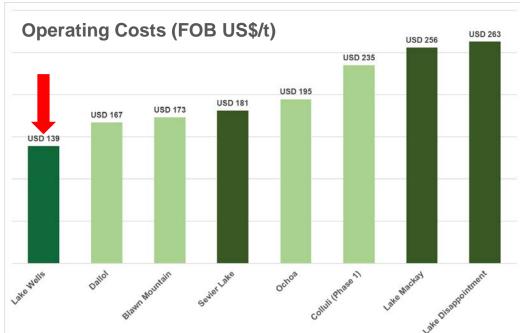
#### **LOWEST QUARTILE CAPEX & OPEX**

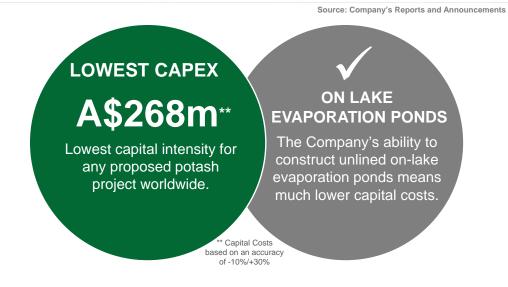


Scoping Study (2016) to produce 400,000tpa from Lake Wells

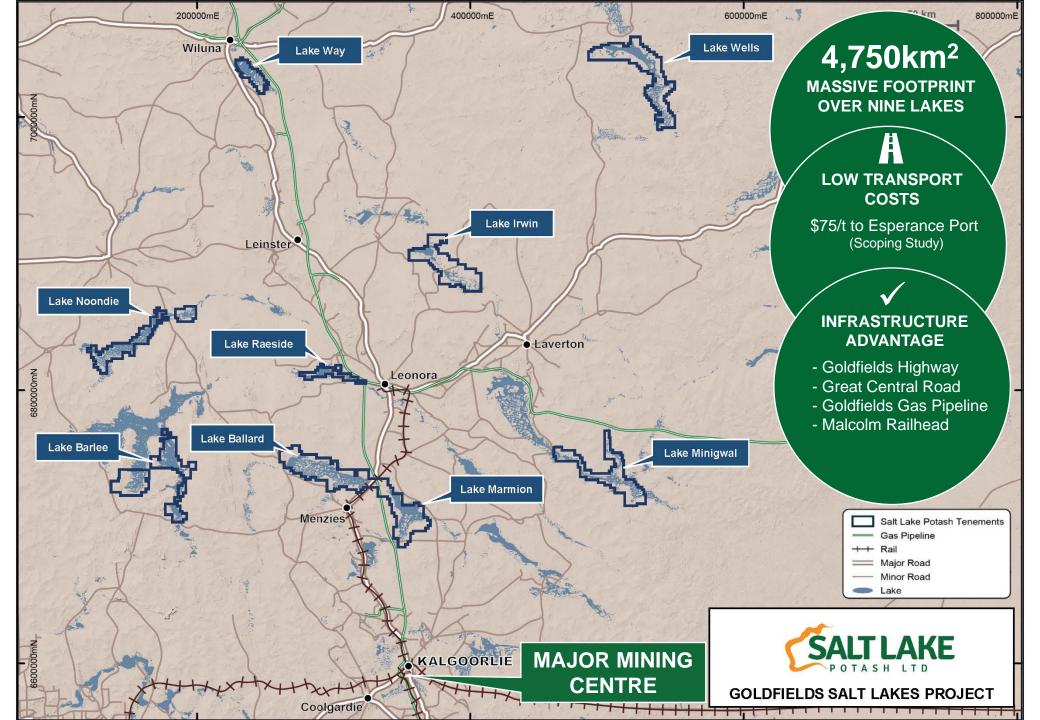








For full disclosures, refer to the Company's Announcement titled Scoping Study Confirms Lake Wells Potential dated 29 August 2016.



## MANAGEMENT WITH A TRACK RECORD OF **VALUE GENERATION**



<b>lan Middlemas</b> Chairman	Respected resource executive with extensive finance, commercial and capital markets experience. Current Chairman of Berkeley Energia Limited and Equatorial Resources Limited & former Chairman of Papillon Resources Ltd and Mantra Resources Limited.
Matt Syme CEO	Chartered Accountant with over 25 years of experience in mining and company management. Former MD of Berkeley Energy (BKY) and Sierra Mining (SRM). Grew BKY from a \$4m shell to over \$200m by acquiring and completing initial scoping study on the Salamanca Uranium Project in Spain. Grew SRM from \$5m to over \$80m when sold to RTG Mining inc by acquiring and exploring the Mabilo Copper/Gold Project in the Philippines.
Carlos Perucca Consultant Process Engineer	Minerals Process Engineer with 25+ years of experience in mineral processing engineering, specializing in Potash and Phosphates beneficiation. Significant experience from operations in North, South and Central America, including salt lake brine production.
Marcelo Bravo Senior Evap/Cryst Consultant	Mr Bravo is an experienced Process Manager Engineer previously working at SQM, the third largest salt lake SOP producer globally. He specialises in the front end of brine processing from feed brine through to the crystallisation of harvest salts.
Ben Jeuken Consultant/ Hydrogeologist	The Principal Hydrogeologist of Groundwater Science, Ben Jeuken, has over 10 years of experience in groundwater resources assessment and management for mining. He has experience in salt lake brine potash evaluation, aquifer testing, wellfield planning and installation for mining, and the development of conceptual hydrogeological models.

#### **CORPORATE STRUCTURE**

175m

**Ordinary Shares** Listed on ASX and AIM (Code: SO4)

**Unlisted Options** exercise prices \$0.40-\$0.60

**26.7m** Performance Rights
Milestones: PFS, BFS & Construction

Based on \$0.45 at 20/10/2017

A\$15.6m

As at 30 June 2017

#### **OUTLOOK**



SLP and its engineering consultants, Amec Foster Wheeler, are studying the options for constructing a Demonstration Project at Lake Wells commencing in 2018 and producing around 40,000tpa of high quality SOP.

The Company is in discussion with various partners for the Project.

The Company anticipates subsequent staged development of the Project, with the Commercial Scale Stage intended to capture important economies of scale for transport and power in particular.

	PILOT SCALE ON-LAKE INFRASTRUCTURE	DEMONSTRATION PLANT	SCOPING STUDY (STAGE II)	FURTHER STAGES	
Total Pond Area	180,000m <sup>2</sup> (18Ha)	4,500,000m <sup>2</sup> (450Ha)	+45,000,000m <sup>2</sup> (+4,500Ha)		
Estimated Total Trench Length	2-3km	50-60km	+200km (also bores)	Subject to the capacity of the Project, including other lakes in the portfolio	
Target Construction Start	Q4 2017	Mid 2018	Mid 2020		
Production	No Process Plant	40,000tpa	400,000tpa	•	
	Harvest Salt for up to 2,000t SOP equivalent stockpiled		120,000tpa achieves main economies of scale		



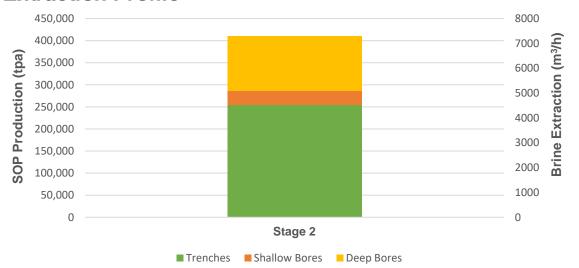
## **APPENDICES**

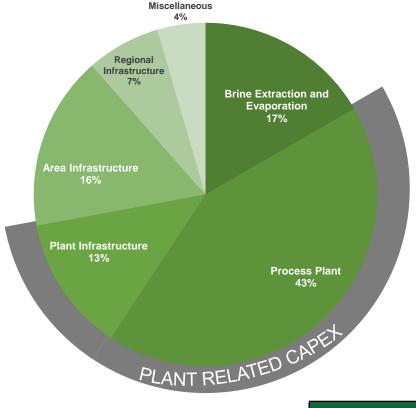
## SCOPING STUDY - 400,000 TPA FROM LAKE WELLS

Capital Costs*	400,000t/a		
•	(A\$'000)		
Brine Extraction and Evaporation	45,035		
Process Plant	73,968		
Plant Infrastructure	21,992		
Area Infrastructure	29,038		
Regional Infrastructure	11,978		
Miscellaneous	10,673		
Total Direct Cost	192,684		
Temporary Facilities	10,752		
EPCM	26,541		
Total Indirect Cost	37,293		
Total Initial Capital (before growth allowance)	229,977		
Growth Allowance	37,616		
Total Initial Capital	267,593		

<sup>\*</sup> Capital Costs based on an accuracy of -10%/+30%

#### **Extraction Profile**





OPEX per tonne **	<b>400tkpa</b> (A\$/t)	
Labour	41.25	
Power	14.46	
Maintenance	16.42	
Reagents	5.07	
Consumables	15.72	
Miscellaneous, G&A	17.08	
<b>Total Mine Gate Operating Costs</b>	110.00	
Product haulage and port	75.10	
Total	185.10	

<sup>\*\*</sup> Operating Costs based on an accuracy of ±30% including transportation & handling (FOB Esperance) but before royalties and depreciation.

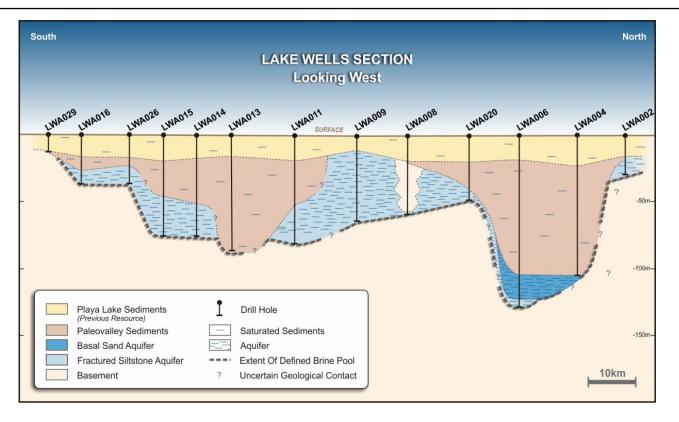
### LAKE WELLS - JORC RESOURCE



#### **Total Mineral Resource Estimate**

Classification	Geological Unit	Bulk Volume (Million m³)	Porosity	Brine Volume (Million m³)	Average SOP¹ (K₂SO₄) Concentration (kg/m³)	K₂SO₄ Tonnage (Mt)
Measured	Playa Lake Sediments	5,427	0.464	2,518	8.94	23
Indicated	Playa Lake Sediments	775	0.464	359	8.49	3
Inferred	Playa Lake Sediments (Islands)	1,204	0.464	558	5.34	3
Inferred	Paleovalley Sediment	10,600	0.40	4,240	9.07	38
Inferred	Fractured Siltstone Aquifer	6,717	0.2230	1,478 - 2,015	8.79	13-18
Total		24,723		9,691	8.74	80-85

Note: 1) Conversion factor to K to SOP (K<sub>2</sub>SO<sub>4</sub> equivalent) is 2.23



#### **DISCLOSURES AND DISCLAIMERS**



#### Cautionary Statement and Important Information

The information in the presentation that relates to the Scoping Study is extracted from the report entitled 'Scoping Study Confirms Potential Confirms Lake Wells Potential' dated 29 August 2016 (Scoping Study Announcement). The announcement is available to view on <a href="https://www.saltlakepotash.com.au">www.saltlakepotash.com.au</a>. The Scoping Study has been prepared and reported in accordance with the requirements of the JORC Code (2012) and relevant ASX Listing Rules.

The primary purpose of the Scoping Study is to establish whether or not to proceed to a Pre-Feasibility Study ("PFS") and has been prepared to an accuracy level of ±30%, the Scoping Study results should not be considered a profit forecast or production forecast. As defined by the JORC Code, a "Scoping Study is an order of magnitude technical and economic study of the potential viability of Mineral Resources. It includes appropriate assessments of realistic assumed Modifying Factors together with any other relevant operational factors that are necessary to demonstrate at the time of reporting that progress to a Pre-Feasibility Study can be justified." (Emphasis added)

The Modifying Factors included in the JORC Code have been assessed as part of the Scoping Study, including mining (brine extraction), processing, metallurgical, infrastructure, economic, marketing, legal, environmental, social and government factors. The Company has received advice from appropriate experts when assessing each Modifying Factor.

Following an assessment of the results of the Scoping Study, the Company has formed the view that a PFS is justified for the Lake Wells project, which it will now commence. The PFS will provide the Company with a more comprehensive assessment of a range of options for the technical and economic viability of the Lake Wells project.

The Company has concluded it has a reasonable basis for providing any of the forward looking statements included in this announcement and believes that it has a reasonable basis to expect that the Company will be able to fund its stated objective of completing a PFS for the Lake Wells project. All material assumptions on which the forecast financial information is based are set out in the Scoping Study Announcement.

In accordance with the ASX listing rules, the Company advises the Scoping Study referred to in the Scoping Study Announcement is based on lower-level technical and preliminary economic assessments, and is insufficient to support estimation of Ore Reserves or to provide assurance of an economic development case at this stage, or to provide certainty that the conclusions of the Scoping Study will be realised.

#### **Production Target**

The Production Target stated in this presentation is based on the Company's Scoping Study for the Lake Wells Project as released to the ASX on 29 August 2016. The information in relation to the Production Target that the Company is required to include in a public report in accordance with ASX Listing Rule 5.16 was included in the Company's ASX Announcement released on 29 August 2016. The Company confirms that the material assumptions underpinning the Production Target referenced in the 29 August 2016 release continue to apply and have not materially changed.

The Production Target referred to in this presentation and the Scoping Study Announcement is based on 100% Measured Mineral Resources for Stage 1 and 70% Measured Mineral Resources and 30% Inferred Mineral Resources for Stage 2. There is a low level of geological confidence associated with Inferred Mineral Resources and there is no certainty that further exploration work will result in the determination of Measured or Indicated Mineral Resources or that the production target or preliminary economic assessment will be realised.

#### **Forward Looking Statements**

This presentation contains 'forward-looking information' that is based on the Company's expectations, estimates and projections as of the date on which the statements were made. This forward-looking information includes, among other things, statements with respect to prefeasibility and definitive feasibility studies, the Company's business strategy, plans, development, objectives, performance, outlook, growth, cash flow, projections, targets and expectations, mineral reserves and resources, results of exploration and related expenses. Generally, this forward-looking information can be identified by the use of forward-looking terminology such as 'outlook', 'anticipate', 'project', 'target', 'potential', 'likely', 'believe', 'estimate', 'expect', 'intend', 'may', 'would', 'could', 'scheduled', 'will', 'plan', 'forecast', 'evolve' and similar expressions. Persons reading this news release are cautioned that such statements are only predictions, and that the Company's actual future results or performance may be materially different. Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the Company's actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information. Forward-looking information is developed based on assumptions about such risks, uncertainties and other factors set out herein, including but not limited to the risk factors set out in Schedule 2 of the Company's Notice of General Meeting and Explanatory Memorandum dated 8 May 2015.

#### **Disclaimer Notice**

The material in this presentation ('material') is not and does not constitute an offer, invitation or recommendation to subscribe for, or purchase any security in Salt Lake Potash Ltd ('SLP') nor does it form the basis of any contract or commitment. SLP makes no representation or warranty, express or implied, as to the accuracy, reliability or completeness of this material. SLP, its directors, employees, agents and consultants shall have no liability, including liability to any person by reason of negligence or negligent misstatement, for any statements, opinions, information or matters, express or implied, arising out of, contained in or derived from, or for any omissions from this material except liability under statute that cannot be excluded.

Statements contained in this material, particularly those regarding possible or assumed future performance, costs, dividends, production levels or rates, prices, resources, reserves or potential growth of SLP, industry growth or other trend projections are, or may be, forward looking statements. Such statements relate to future events and expectations and, as such, involve known and unknown risks and uncertainties. Actual results and developments may differ materially from those expressed or implied by these forward looking statements depending on a variety of factors.

#### Competent Persons Statement

The information in the presentation that relates to the Scoping Study is extracted from the report entitled 'Scoping Study Confirms Potential Confirms Lake Wells Potential' dated 29 August 2016. The announcement is available to view on www.saltlakepotash.com.au. The information in the original announcement that relates to processing, infrastructure and cost estimation are based on and fairly represents information compiled or reviewed by Mr Zeyad El-Ansary, who is a Competent Person as a member of the Australasian Institute of Mining and Metallurgy. Mr Zeyad El-Ansary has 9 years' experience relevant to the activities undertaken for preparation of these report sections and is a employed by Amec Foster Wheeler. Mr Zeyad El-Ansary consents to the inclusion in the report/press release of the matters based on their information in the form and context in which it appears. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

The information in this presentation that relates to Mineral Resources for Lake Wells, is extracted from the reports entitled 'Lake Wells Resource Increased By 193 Percent to 85Mt of SOP' dated 22 February 2016 and 'Significant Maiden SOP Resource of 29Mt at Lake Wells' dated 11 November 2015 and is available to view on the Company's website www.saltlakepotash.com.au. The information in the original ASX Announcement that related to Exploration Results for Lake Wells based on information compiled by Mr Ben Jeuken, who is a member Australian Institute of Mining and Metallurgy. Mr Jeuken is employed by Groundwater Science Pty Ltd, an independent consulting company. Mr Jeuken has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity, which 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 Jeuken consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

The information in this presentation that relates to Exploration Results for Lake Wells, is extracted from the reports entitled 'Trenching at Lake Wells Confirms Brine Production Potential' dated 25 January 2017, 'Aircore Drilling Confirms Deeper Potential At Lake Wells' dated 28 November 2015, 'Successful Shallow Core Drilling Completed at Lake Wells' dated 22 September 2015 and 'Wildhorse Acquires Two Large Scale High Grade Sulphate Of Potash Brine Projects' dated 9 April 2015 and is available to view on the Company's website www.saltlakepotash.com.au. The information in the original ASX Announcement that related to Exploration Results, not including geophysical and test pumping results for Lake Wells based on information compiled by Mr Ben Jeuken, who is a member Australian Institute of Mining and Metallurgy. Mr Jeuken is employed by Groundwater Science Pty Ltd, an independent consulting company. Mr Jeuken has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity, which 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 Jeuken consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

The information in this presentation that relates to Exploration Results on geophysical and test pumping results for Lake Wells, is extracted from the reports entitled Geophysics and Test Pumping Reinforce Lake Wells Potential' dated 10 August 2016 and 'Excellent Initial Pump Test Results at Lake Wells' dated 12 May 2016 and is available to view on the Company's website www.saltlakepotash.com.au. The information in the original ASX Announcement that related to Exploration Results on geophysical and test pumping results for Lake Wells based on information compiled by Mr Adam Lloyd, who is a member of the Australian Institute of Geoscientists and International Association of Hydrogeology. Mr Lloyd was an employee of Salt Lake Potash Limited. Mr Lloyd has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity, which 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 Lloyd consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

The information in this presentation that relates to Process Testwork Results is based on, and fairly represents, information compiled by Mr Bryn Jones, BAppSc (Chem), MEng (Mining) who is a Fellow of the AusIMM, a 'Recognised Professional Organisation' (RPO) included in a list promulgated by the ASX from time to time. Mr Jones is a consultant of Inception Consulting Engineers Pty Ltd. ("Inception"). Inception is engaged as a consultant by Salt Potash Limited. Mr Jones has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which 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 Jones consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.



ASX/AIM: SO4

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