

The Lake Wells Sulphate of Potash Project

Definitive Feasibility Study Presentation

September 2019

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Competent Person's Statement

The information in the announcement that relates to Mineral Resources and Reserves is based on information that was compiled by Mr. Duncan Gareth Storey. Mr. Storey is a Director and Consulting Hydrogeologist with AQ2, a firm that provides consulting services to the Company. Neither Mr. Storey nor AQ2 own either directly or indirectly any securities in the issued capital of the Company. Mr. Storey has 30 years of international experience. He is a Chartered Geologist with, and Fellow of, the Geological Society of London (a Recognised Professional Organisation under the JORC Code 2012). Mr. Storey has experience in the assessment and development of palaeochannel aquifers, including the development of hypersaline brines in Western Australia. His experience and expertise are 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". Mr. Storey

consents to the inclusion in this report of the matters based on this information in the form and context as it appears.

The information in this report that relates to Exploration Results is based on information compiled by Christopher Shaw who is a member of the Australian Institute of Geoscientists (AIG). Mr. Shaw is an employee of Australian Potash Ltd. Mr. Shaw 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. Shaw consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

The information in this report that relates to mineral processing is based on information compiled by Mr Antoine Lefaivre, a Competent Person who is a Member of the *Ordre des Ingénieurs du Québec* (Order of Engineers of Ruebec). Mr Lefaivre is employed by Novopro Projects Inc. and has sufficient experience that is relevant to the style of minerals processing 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 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Lefaivre consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

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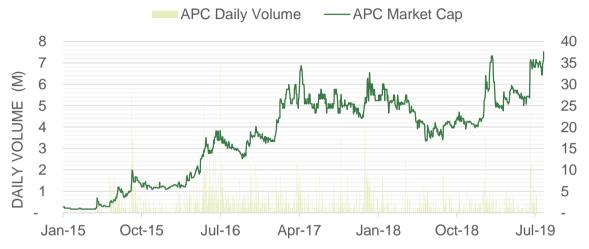


Investment Highlights

- Flagship SOP asset: JORC2012 Measured Resource of 18.1Mt and 3.6Mt Reserve
- Enormous upside: Life of Mine run-rate uses only 21% of Total Measured Resource
- Strong board and management team with decades of project financing, development, management and SOP marketing experience
- Sector leading capital intensity against peer space and first quartile operating costs
- Very strong supply constrained Global and domestic SOP market with CAGR set to grow total global demand from +6Mt to nearly 9Mt by 2040
- Existing infrastructure in place with multiple export port and distribution options via road and rail
- Rapid pathway to development with FEED to commence immediately, financing and off-take selection process underway



Company Snapshot



Board

Jim Walker

Non-executive Chairman

WesTrac, Diggers & Dealers, Austin, Seven Group

Rhett Brans

Non-executive Director

Carnavale, AVZ, Perseus, Tiger

Brett Lambert

Non-executive Director

Mincor, Western Mining, Intrepid

Matt Shackleton

Managing Director & CEO

Chartered Accountant

Mount Magnet South, Canyon, DRCM

Sophie Raven

Company Secretary

Corporate Lawyer

Management

Scott Nicholas

Chief Financial Officer MACH Energy, Atlantic

Jay Hussey

Chief Commercial Officer Migao. China specialist

Stewart McCallion

Project Manager Blackham, Hancock

Chris Shaw

Exploration Manager Anglo, Gryphon, Normandy CAP (A\$M) MARKET

Capital Structure	
Share Price (26/08/2019)	A\$0.11
Shares on Issue (ASX: APC)	357m
Listed Options (ASX: APCOA, 20c, 10/2019; APCOB, 12c, 08/2021)	85m
Unlisted Options (10c - 22.5c, 2021)	21m
Market Capitalisation	A\$39m
Cash (30/06/2019)	A\$3m
Enterprise Value	A\$36m
Major Shareholdings	
Top 40	55%
Yandal (Creasy)	8.5%
Perth Select Seafood	4.5%
Directors & Mgmnt	2.5%

Research Coverage







DFS Summary

Attractive Financial Technically Robust Flagship SOP Project **SOP Market Outcomes NPV₈ A\$665M** High grade SOP 3.6Mt Reserve 30 year mine life suite of products **IRR 25%** 2019 SOP First quartile 18.1Mt Measured **Granted mining** Australian price Resource leases **US\$262/t SOP** ~US\$555/t Australia CAPEX A\$208M **Existing Bore-field brine South-East Asia** logistics **Capital intensity** abstraction infrastructure A\$1,387/t SOP **America**



Leading Industry Partners

Contributor	Background	Description of Contribution
AQ2 applied hydrotechnics	Independent water resources consultancy with expertise in hydrogeology and hydrology	Exploration, resource and reserve, borefield design, process water supply
Knight Piésold	Experts in engineering, environmental services, and geosciences	Evaporation and harvest pond design, capital and sustaining capital costs, and operating costs
Project Development & Management	Specialises in developing and engineering projects applied to the metallurgical, mining, mineral processing and chemical industries	Process plant design including test work, trial concentration ponds, and process engineering. Product modelling of potassium flow from palaeochannel to final SOP product
Lycopodium	Engineering and project management group providing a complete range of services for the evaluation, development, implementation and optimisation of projects	Process plant capital and sustaining cost, operational costs, and maintenance
MBS	Provides environmental consulting expertise with a team of geochemists, environmental engineers and geoscientists	Environmental and approvals strategy and implementation
ORIGIN CAPITAL GROUP	Leading independent corporate advisory group	Financial modelling, WACC, and FX assumptions
argus	Leading independent provider of potash price, market data, and business intelligence	Sulphate of potash and muriate of Potash supply and demand fundamentals including price forecasts



Global SOP

Country	Company	Location	Capacity Method tpa		Mt	% Global Prod
USA	Compass	Utah	320,000			
Chile	SQM	Atacama	240,000			
India	Archean	Rann of Kutch	65,000			
China	Xinjiang Luobupo	Lop Nur, Xinjiang	1,800,000			
China	Qinghai Lenghu Bindi	Dayantan	900,000			
China	Qinghai CITIC Guo'an	Taijinaier	300,000	Solar salt	3.6	32.3%
Belgium	Tessenderlo	Ham	580,000			
Sweden	Kemira	Halsingborg	110,000			
Finland	Yara	Kokkola	220,000			
Other European	Various	Various	40,000			
Egypt	Evergrow	Giza	300,000			
Other MENA	Various	Various	255,000			
Taiwan	Sesoda, Green-on	Various	220,000			
Other	Various	Various	249,000			
China	Migao	Various	320,000			
China	Various	Various	4,100,000	Mannheim	6.4	56.9%
Germany	K+S	Werra	1,050,000			
Russia	Rusal/Meta Chem/other	Various	150,000	Kieserite/MOP/other	1.2	10.6%
			Т	otal Production Capacity	11.2	100%

Source: Argus



Australian SOP Companies

Company	Project	Study stage	Capacity tpa	Pre-Production CAPEX A\$M	Market Capitalisation A\$M
Australian Potash (ASX: APC) ¹	Lake Wells	DFS	150,000	208	39.3
Agrimin (ASX: AMN) ²	Lake Mackay	PFS	426,000	545	115.2
BCI Minerals (ASX: BCI) ³	Mardie	PFS	100,000	97/498	71.6
Danakali (ASX: DNK) ⁴	Colluli	FEED	472,000	4314	171.1
Kalium Lakes (ASX: KLL) ⁵	Beyondie	FEED	90,000	216	188.8
Reward Minerals (ASX: RWD) ⁶	Lake Disappointment	PFS	400,000	451	13.0
Salt Lake Potash (ASX: SO4) ⁷	Lake Way	Scoping Study	200,000	237	216.3

- 1. Definitive Feasibility Study ASX Announcement 28 August 2019
- Investor Presentation March 2019
- 3. Investor Roadshow Presentation May 2019
- Investor Presentation July 2019; Capex cost of USD302 translated to AUD43
- Investor Presentation August 2019
- AGM Presentation May 2019
- 7. Investor Presentation August 2019



Asset Overview



Ownership	Australian Potash Limited (100%)				
Commodity	Sulphate of Potash suite of products				
Operation Type	Bore-field (78 bore network) abstraction, solar salt evaporation and processing				
Deposit	Brine contained within a palaeochannel				
Tenement Area	 3 mining leases 17 exploration licenses Tenements cover an area of 2,100km² 				
Status	 Scoping Study completed March 2017 Definitive Feasibility Study completed August 2019 >A\$15m invested to date 				
JORC Reserves and Resources	Reserves: 3.6Mt of SOPResources: 18.1MT of SOP				



SOP Probable Ore Reserve

- 95% of SOP production from aquifers from Probable Ore Reserves of 3.6Mt
- 5% recovered from Measured resource over the 30 year mine life

Recovered Brine and Mass for first 10 years of operations and LOM

Brine Volume Recovered	Mining Period	Average Pumping	K Cor	ncentration (mg/L)	Mass Potassium Recovered	Mass SOP Recovered	Proportion of Measured
(Mm³)	renou	Rate (L/s)	Start	End	Average	(MT)	(MT)	Resource
170	0-10 yrs	540	3,570	3,390	3,450	0.6	1.3	7%
511	0-30 yrs	540	3,570	3,250	3,350	1.7	3.8	21%

Probable Ore Reserve

Brine Volume Recovered (Mm³)	Average Produced K Concentration (mg/L)	K Mass (MT)	SOP Mass (MT)	Proportion of Measured Resource	Proportion of LOM Production
490	3,325	1.6	3.6	20%	96%



Bore Field and Ponds

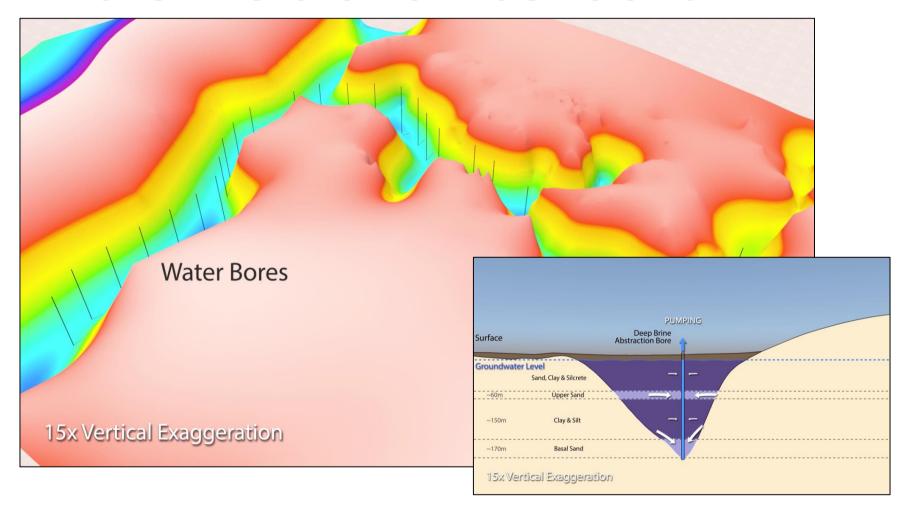
Bore Field Pipeline

- □ Bore field design to abstract 540 litres/second over the life of mine
- □ Bore field comprises 78 bores across both lines and is approximately 77km
- Bore-field connected with reticulated powerlines and telemetry

- Evaporation ponds design based on grade and climate modelling completed by Novopro
- □ There are three ponds in the evaporation sequence:
 - □ 10.03 km² required for the Buffer and Pre-concentration Ponds
 - □ 2.67 km² required for Harvest Pond
- Buffer Pond (where brine is stored and released to buffer seasonable variations in evaporation)
- □ Pre-concentration Ponds (where the brine is concentrated on-playa up to the sodium chloride saturation point)
- Harvest Ponds (where the potassium bearing salts are deposited in off-playa, lined ponds for harvesting and transporting to the processing plant)



Bore Field and Abstraction

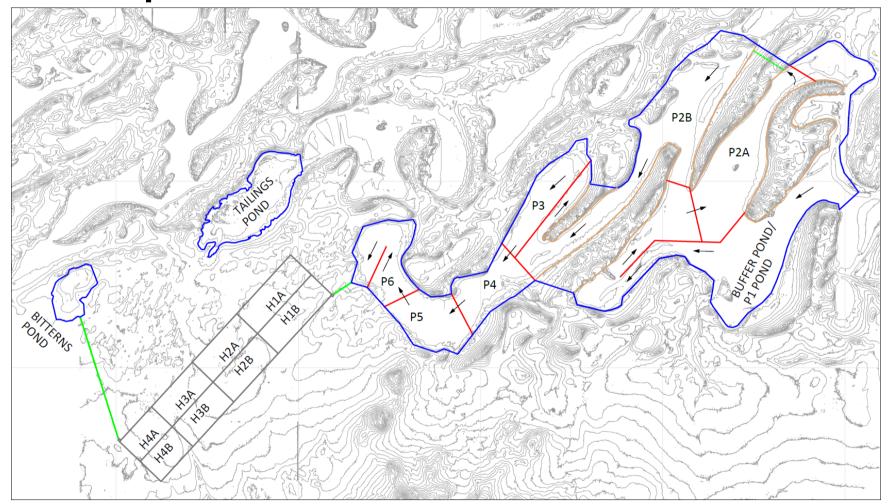




Bore Field and Abstraction



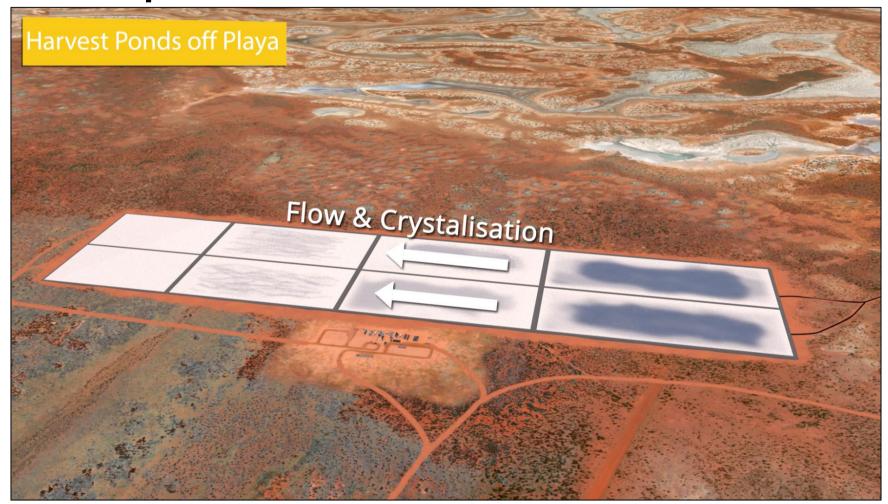












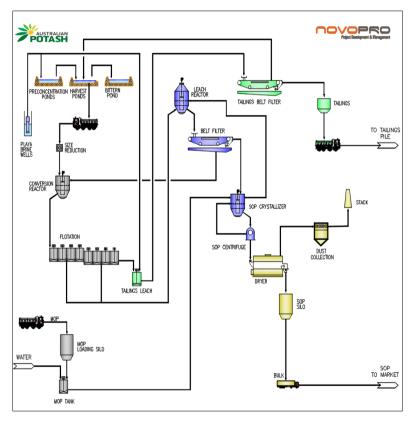


Process Plant





Process Plant



Simple Block Model

- Processing facility is designed to produced 150,000tpa of SOP from salts recovered from the harvest ponds and from MOP addition
- ☐ Key process stages include:
 - Harvest salts loaded onto trucks and transported to processing plant
 - ☐ Crushing ensures all potassium bearing salts are sufficiently liberated
 - ☐ Conversion reactor salts converted to potassium bearing schoenite in an exothermic reaction
 - ☐ Flotation schoenite separated from the gangue material: high purity schoenite
 - Leaching precipitates additional schoenite from addition of SOP mother liquor, removes remaining halite
 - MOP addition MOP is dissolved then mixed with the high purity schoenite then fed into the SOP crystalliser
 - SOP crystalliser − converts high purity schoenite into SOP crystals at 50°C



Site Operations

Logistics

□ Bulk haulage using super-quad trucks to Geraldton Port, backloaded MOP









- 1) Pond Ore Windrowing
- Pond Windrows (showing brine drainage)
- 3) Windrow Reclaim
- Tandem Reclaim Trucks to Process
 Plant







Site Infrastructure

Site Infrastructure

□ APC has received Request for Proposals (RFP) and budget quotations for the site infrastructure : preferred proposals selected & form basis for DFS costings

Power station and reticulation

- Build, Own, Operate (BOO) Gas fired power station with total capacity of 12 MW
- Trucked LNG, power reticulated to bore-field

Site Access Road

- Minor re-alignment for site access road from the Great Central Rd
- CAPEX includes upgrade to existing access road to handle quad truck movements

Accommodation camp

- 100-person permanent camp constructed, 52 person operating levels
- Includes medical, laundries, gymnasium, swimming pool, wet mess

Site Communications

Long haul microwave network between Laverton and the LSOP comprising of 6 towers between 30-50m high, high-speed LAN & WAN



Implementation

Project Delivery Model

□ EPCM project execution model with oversight from the Company's team

Quarters from FID	(2)	(1)	1	2	3	4	5	6	7	8	9	10
FEED												
Approvals & Permitting												
Engineering & Procurement												
Brine borefield & pond												
construction												
Plant construction												
Plant commissioning & ramp-												
up												
Steady state production												



Environmental & Social

Environmental and Social

- Environmental Scoping Study (ESD) approved September 2018
- Environmental Review Document (ERD) due for lodgement with EPA in Q3 2019

Approvals

- □ Receipt of all approvals planned for Project development commencing Q2 2020
- Ministerial Statement is estimated to be received Q2 2020
- □ Works Approval and Mining Proposal estimated to be granted Q2 2020

Granted Mining Leases

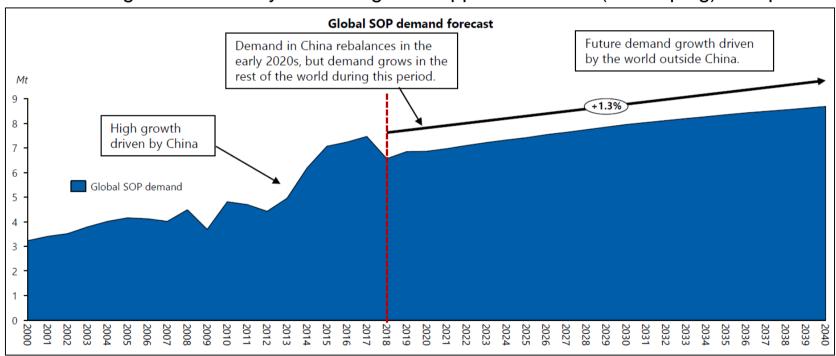
- □ No 'Right to Negotiate' exists across development area
- Currently negotiating with local traditional owners around social license to operate



Marketing

Market Demand

- □ Global SOP demand CAGR 1.3% CAGR 2018 to 2040 reaching 8.7mt in 2040
- □ Global SOP demand ex-China 2.3% CAGR (much higher)
- □ Demand growth driven by increasing SOP application rates (developing)/Europe

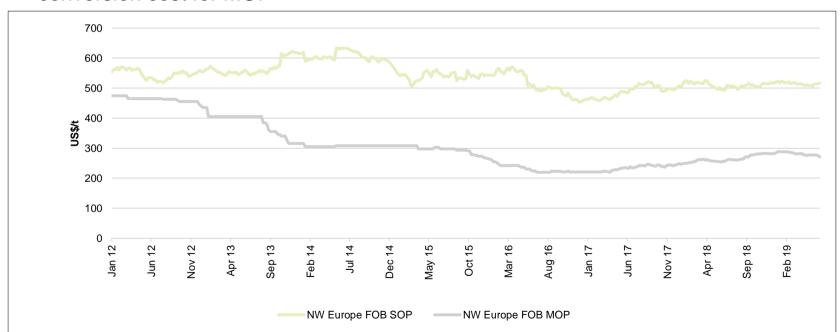




Marketing

Historical Pricing

- □ SOP premium over MOP averages US\$269/t last five years
- □ SOP Europe price last 5 years stable in the range of US\$500-US\$600/t
- □ Premium c.US\$100/t over MOP price considered floor premium Mannheim conversion cost for MOP





Marketing

Target Markets and Offtakes

- □ Test-work confirmed the LSOP will produce high grade, premium suite of SOP products (53% K₂O, <1% Cl, 17% S)
- □ Target markets include
 - Australia: 360ktpa of potash with opportunity to expand SOP
 - □ China: c.4Mt SOP
 - □ South East Asia and west coast USA (superior price premium)
- □ Two MOU's for offtake agreed in 2017 with Chinese agricultural entities
- □ Binding offtake discussions rapidly advancing with shortlist of strategic partners



Financial Analysis

DFS Financial Model

Physicals	Unit	LOM
Life of Mine	Years	30
SOP production	Tonnes	4.5Mt
Key Assumptions		
Ave realised SOP price	US\$/t	\$614
Exchange rate	A\$:US\$	0.67
Valuation		
Pre-tax NPV ₈	A\$m	665
Pre-tax IRR	%	25
Pre-tax operational payback	Years	4.00

DFS Capex and Opex

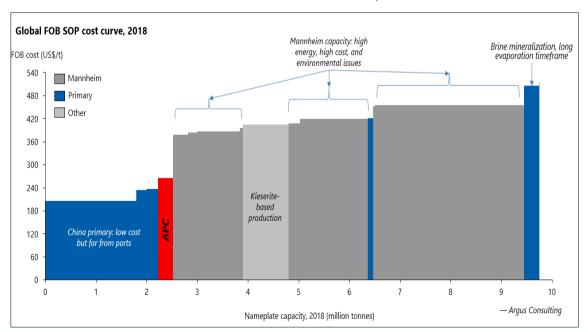
Capex Item	A\$m
Project indirects	37
Bore-field	48
Evaporation ponds	26
Processing plant	58
Non-process infrastructure	19
Contingency	20
Total Capex	208
Capital Intensity (A\$/t SOP)	1,387



Financial Analysis

First Quartile SOP Producer

- ☐ Cash cost US\$262/t Project comfortably first quartile of the industry cost curve
- → +50% global SOP production from Mannheim energy intensive, high cost, environmental issues
- ☐ Natural 'floor' in cost curve of US\$400/t due to Mannheim SOP production



LOM OPEX1	US\$/t
Salt harvesting	16
Power supply	40
Reagents & Consumables	116
Labour	30
Transport and Logistics	36
Maintenance	4
Indirects	20
Total Cash Cost	262

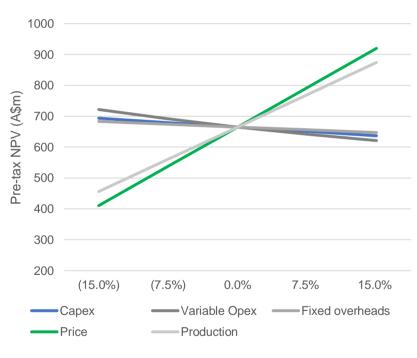
^{1.} Excludes corporate costs, sustaining capital, royalties, and taxes

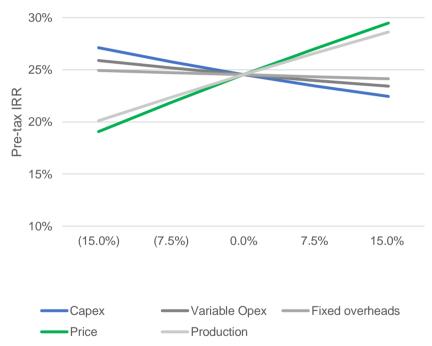


Financial Analysis

Sensitivities

 Scenarios on key sensitivities (-15%) of the Project still deliver attractive financial returns







Notes





"Two out of every five people on Earth today owe their lives to the higher crop outputs that fertilizer has made possible"

Bill Gates

