

AUSTRALIA'S MOST ADVANCED SOP PROJECT





No current production in Australia

Kalium Lakes is Developing Australia's First Sulphate of Potash Operation

- Construction 27% complete
- First production due December 2020
- Ore Reserve sufficient for +30 years
- Binding Offtake Agreement with K+S
- Low Cost Financing, <5% average interest rate</p>
- ▶ 10-15 Year Loan Tenor
- ~68% Australian Content
- Low Operating Cost ~ US\$208/t FOB
- Current SOP price in Australia ~ US\$500/t CFR



SIMPLE SOP PRODUCTION PROCESS



... using the sun to economically extract SOP for the world's growing population...







- No skipped study or development steps
- Full Pilot Scale Validation
- Over \$33M spent on studies and pilot trials
 - Bank Due Diligence investigations completed
 - The completed investigations have resulted in: 1
 - Performance Guarantees
 - Liquidated Damages for Performance and Schedule
 - Incentives for exceeding nameplate design









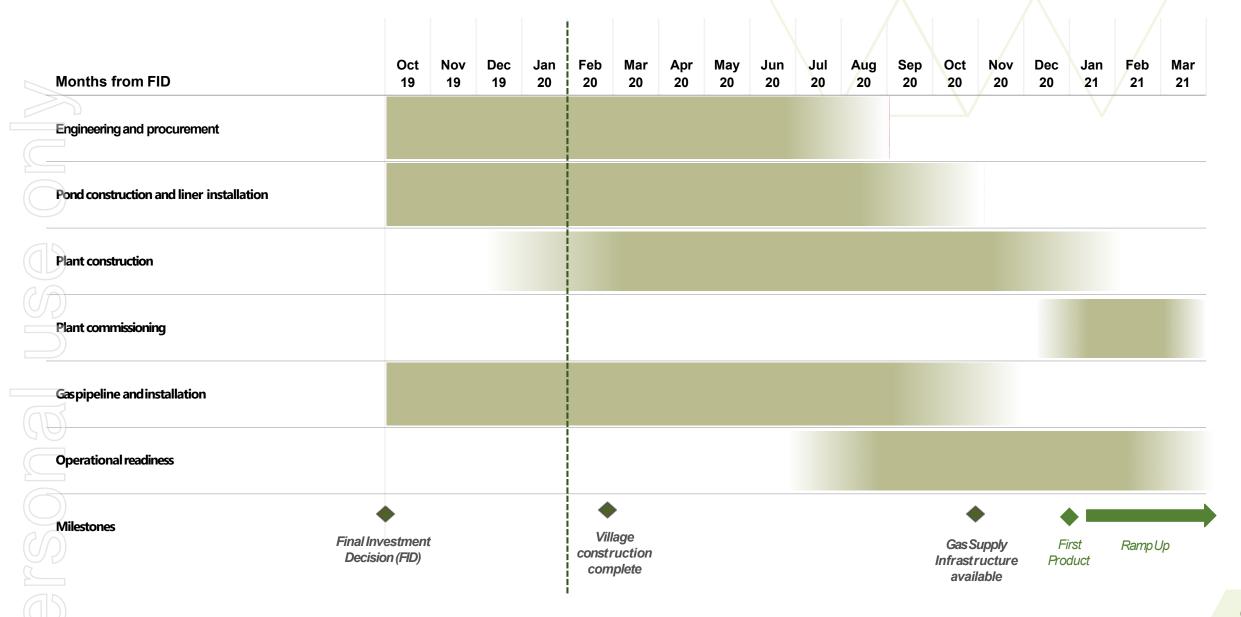


- ▶ 90ktpa SOP expanding to 180ktpa Full Scale
- ► A\$216M Initial Capital Cost
- A\$606 NPV_{8 (pre tax)}
- ▶ 20.3% IRR
- ▶ \$126M EBITDA
- ► EBITDA Margin of 61%
- Lowest Quartile Operating Cost~ US\$178-208/t FOB AISC
- Ore Reserve sufficient for +30 years

Refer: ASX Announcement: <u>Bankable Feasibility Study Completed with Exceptional Financial Outcomes</u> and ASX Announcement: <u>Lower Operating Cost and Increased Production For BSOPP</u>

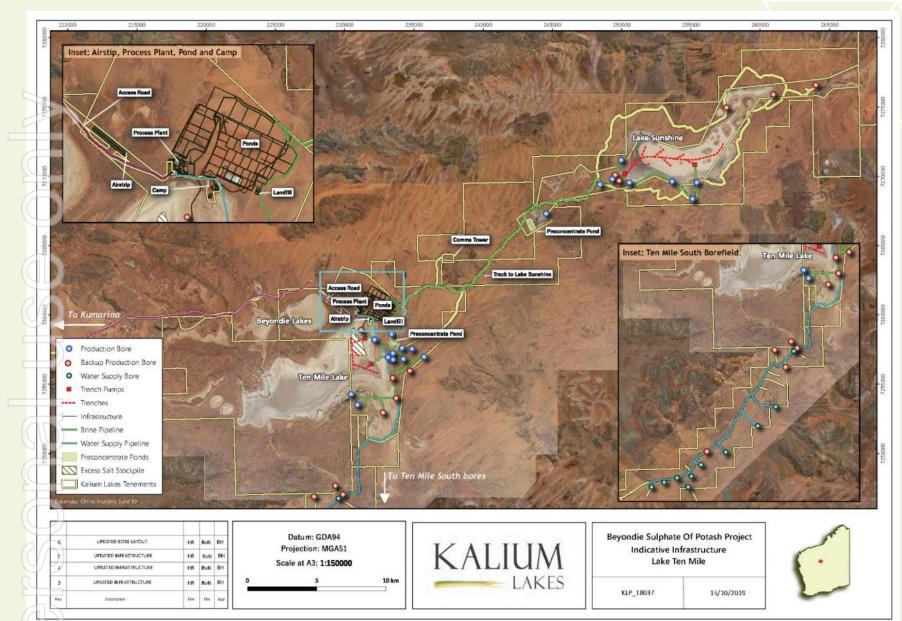
TIMELINE TO FIRST PRODUCTION











Beyondie (Stage 1) is the only SOP project in Australia to have obtained a comprehensive set of approvals and traditional owner consents.





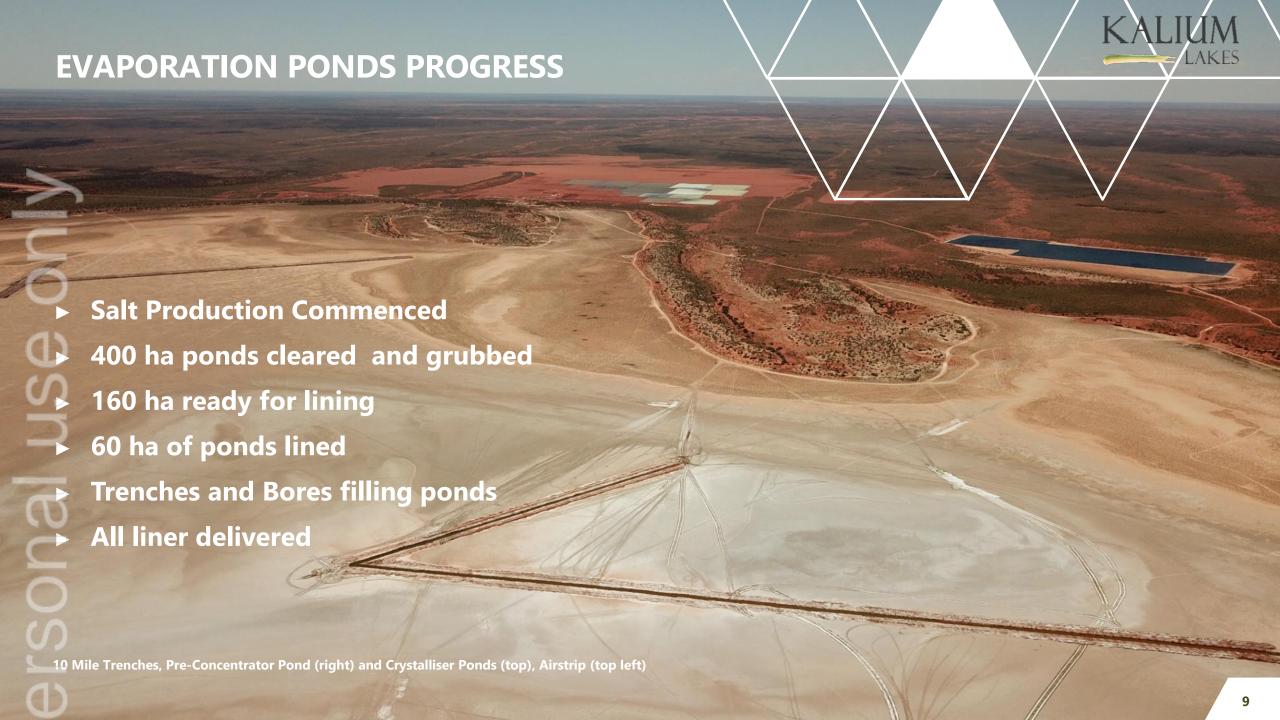
- ▶ 19 of 27 brine production bores installed
- 10 of 10 freshwater bores installed
- > 73 km of pipeline installed out of 91 km in total
- > 10 Mile trenches due to be complete in February
- 2 of 4 trench pumps installed



Pipeline Installation

Bore Equipment

Trench Network







- Access Road complete
- ▶ 150 Man Accommodation being finalised
- Offices and Workshops in place
- Airstrip constructed
- Process Plant Earthworks advanced
- Equipment Fabrication commenced
- Gas Pipeline Fabricated en route to BSOPP
- Gas Power Station ordered
- Harvester delivered to Perth

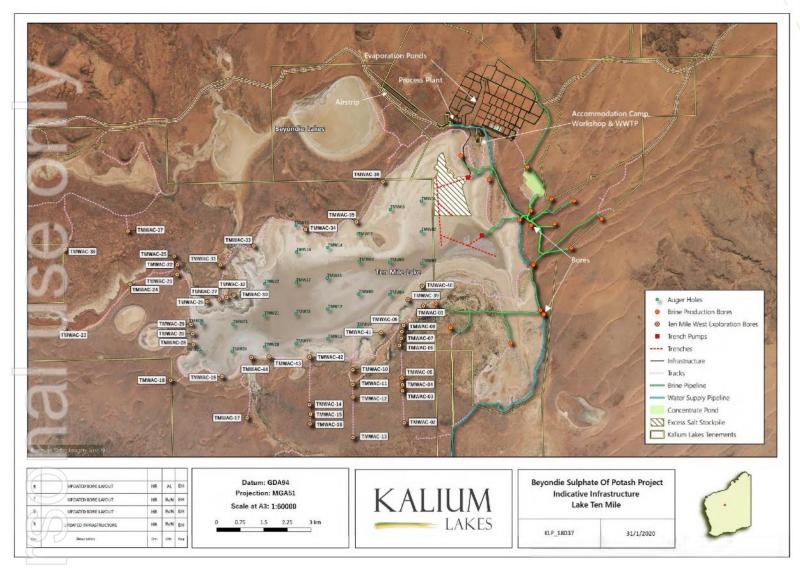


EQUIPMENT & FABRICATION PROGRESS



10 MILE WEST TO INCREASE RESOURCES / RESERVES





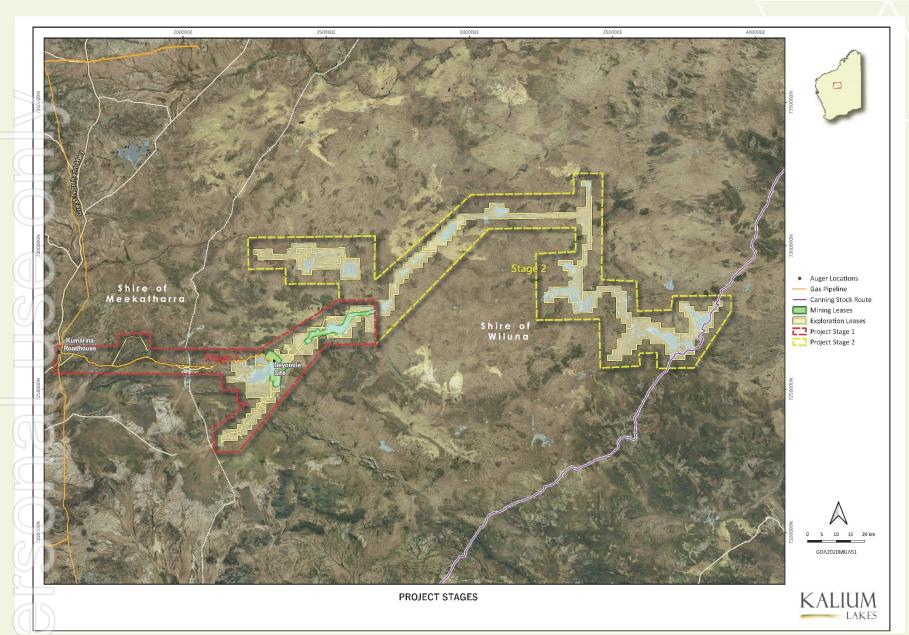
- Highest Grades Recorded across
 BSOPP 31,644 mg/L SOP
- Consistently low Na:K ratio averaging around 7.4
- Easy extension of trenches and bore network
- Expected to Expand JORC Resources and Reserves

Refer: ASX Announcement: High Potassium Grades Continue at 10 Mile West







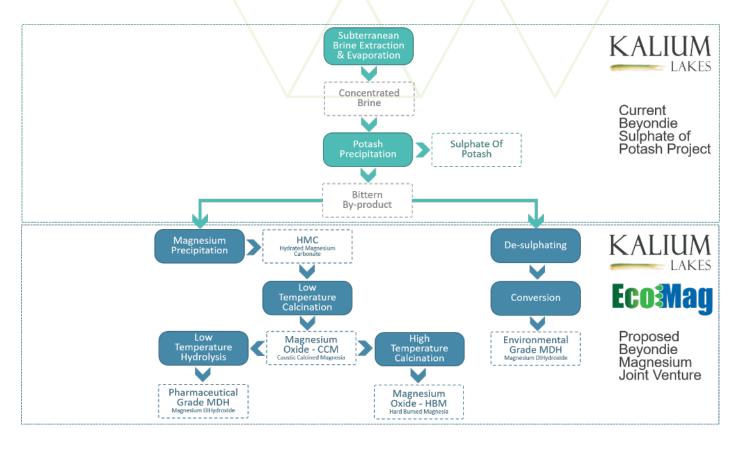


It is important for our current and future investors to recognise the potential that Stage 2 offers, which has almost four times the lake surface area of Stage 1.

MAGNESIUM UPSIDE AND JV OPPORTUNITY



- 8.52Mt Magnesium (Mg) JORC Resource
 - Exclusive Termsheet signed with EcoMag
- Proposal to produce high purity magnesium carbonates, oxides and hydroxides
 - Current market sales prices of US\$1,000 to US\$2,000 per tonne
 - Successful Pilot Scale Trials Completed
 - Australian Government Critical Mineral
 - Pre Feasibility Study commenced



Refer: ASX Announcement: Kalium Lakes and EcoMag Investigate Sustainable Extraction of High Value Magnesium



GOVERNMENT SUPPORT

Government of Western Australia

Hon. Mark McGowan MLA

Australia's first sulphate of potash operation in Australia.

Comments attributed to Premier Mark McGowan:

Comments attributed to Tressurer Ben Wyatt:

heading in the right direction."

Australia's first sulphate of potash operation gets green light

 Construction at Kalium's Beyondie sulphate of potash project has begun. Construction at isalium's beyondle sulphate of potash project has begun
 Located hear Newman, Beyondle will create 170 construction and 70 production jobs

Premier of Western Australia Mark McGowan today signed off on a Northern Australia

Located southeast of Newman, the sulphate of potash project is on track to become

Construction at the project has commenced, which will create 170 jobs, while tirst pro-is expected at the end of 2020, creating 70 operational jobs for Western Australians.

rocesh is an essenium nument used in night-quality remusers that protects tood to disease and pests, and improves water retention, yield, taste and appearance.

This announcement obtainshales that he aucoward covernment's oeta rates for minerals in brine, such as potash, is producing positive results.

The peyonde project has a mine me or 50-plus years, so mis is a will communities that we expect will create long-term, sustainable jobs.

necessary investment that drives jobs throughout the State."

Comments attributed to Mines and Petroleum Minister Bill Johnston:

Premier or evestern Australia Mark McGowan 100ay signed on an a Nonnern Australia Infrastructure Facility loan to assist in developing infrastructure for Kalium Lakes' Beyondie

Construction at the project has commenced, which will create 170 jobs, while first production

This announcement demonstrates that the McGowan Government's decision to lower rental

Potash is an essential nutrient used in high-quality fertilisers that protects food crops from

The Beyondie project has a mine life of 30-plus years, so this is a win for local regional

My government is pleased to support this emerging industry through the introduction of

My government is pleased to support this emerging industry through the introduction of lower rental rates, and the development of this project is another sign that our economy is

Through our careful financial management the McGowan Government is able to provide the

*Congratulations to Kalium Lakes who are progressing to become a nation-wide leader in

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Premier approves Northern Australia Infrastructure Facility fund for Kalium Lakes

Department of the Premier and Cabinet

Hort Ben Wyall MLA

MEDIA STATEMENT







Senator the Hon Matt Canavan Minister for Resources and Northern Australia

Speeches Transcripts



The Hon Karen Andrews MP

Latest news

27 November 2010

More than \$5 billion of

Commonwealth Government

funding is creating more jobs. providing better infrastructure and

unleashing new enterprise in Northern Australia, with the Liberal

National Government investing

record amounts in infrastructure.

water and job-creating projects

2019 Annual Statement on

The Minister for Resources and

Northern Australia, Senator the Hon Matthew Canavan, delivers

the 2019 Annual Statement on

Developing Northern Australia

23 November 2019

Australia to be a world leader

Joint media release with Minister

for Finance, Senator The Hon

for Energy and Emissions

Reduction, The Hon Angus

Australia will become a world

leader in hydrogen production and exports thanks to a new fund set up

Mathias Cormann, and Minister

across three states.

Developing Northern Australia

27 November 2019

Senator the Hon Matt Canavan

Delivering opportunity and growth for Northern Australia

Home > Canavan > Media Roleases > Australian first fertiliser project backed by NAIF Australian first fertiliser project backed by NAIF

The \$250 million Beyondie Sulphate of Potash Project will create 130 jobs during the self-immun departure culpritise or routen integration and crucial ferbiser to support

This NAIF investment will help unlock an Australia-first. For the first time Australia will

This project itself will directly create more than 150 jobs but it will help support many

Potassium is one of the stree macronutrients essential to plant growth. Sulphate of Potassium is one or me erree macromunence exsenser to prem grover, suspinane or Potash is a type of potassium. It is more highly valued than the main alternative source Foliasi in a type or pousseum, it is more riignry values than the main alternative agun of poliasium, Poliasium Chloride, because Sulphate of Poliash has lower chloride.

The NAIF program has provided solid support for a number of big-ticket projects in my

The NAIF loan will be provided to Kalium Lakes Ltd to develop its Beyondie Sulphate of

This investment brings the total amount of NAIF investments to almost \$1.3 billion for This investment unraps are your announce or restrictions and securior of the second of



The Northern Australia Infrastructure Facility (NAIF) will invest \$74 million in Australia's

This wave investment will respond an Australia russ. For the lines time Australia russ have a domestic source of Suphrate of Potash, a crucial ferbiser that Australia has until

thousands more in our farming industry right across Australia. This project demonstrates how developing Northern Australia benefits the whole of Australia.

The project will also deliver significant benefits to the Gingirana and Birnliburu The project was also deliver significant benefits to the singilaria and pinnious unidgenous peoples of the region, including training, employment and milestone and

or potassium, Potassium Unionoe, secause auphaia or Potasn has niver consine levels and is more effective on chloride sensitive crops, such as citrus, fruit, almonds

Federal Member for Durack Melissa Price said the project involved developing the Floorial Member for sunnice Member Price and the proposit involves adventions of Beyondie, 10 Mile and Sunshine Lake sub-auriface brine deposits and included construction of evaporation ponds and a processing facility.

The NAIF will invest in a new gas pipeline, a new power plant and road upgrades that The revur-war invess in a new gas superire, a raw power plans and rular upgrades that will provide wider benefits to the Pibara. Over 75 kilometres of roads will be sested and war provings where beneates to the repeats. Over 10 nationalists on house with the section with the section with the section and section are section are section are section and section are section a

The NAVE program rest provided solely support to a number of our proposal project and upgrading and electorate, including the Thunderbird Mineral Sands project and upgrading and

Including this latest project, more than \$296 million has been offered in NAIF financing incurring tres rates project, more man sess mallon may been owned at over stranding to help faunch these projects, creating jobs and prosperity for the local regions and our

Polash Project. The project will produce 90 kilotonnes of Sulphate of Potash per arnum at a facility 160 kilometres south east of Newman in Western Australia.

to separate projects. Around acad mason in reur-runding has gone towards supporting projects in Western Australia, which will help create more than 370 jobs supporting projects in western Australia, which was help create more evan avo jobs across five projects. Altogether NAIF investments have helped unlock \$2.6 billion of

Media contact: Minister Canavan's office 02 6277 7180

Address to the Australian Agribusiness: Global Opportunities - Local Expertise Conference

21 November 2010

Taylor MP

by the Government

16





Current
A\$37M
~392M
A\$0.505
A\$195M
~10.0M
~6.3M

Shareholders	Percentage
Greenstone Resources	20.5%
Smoothy	16.2%
Institutions	13.5%
Agricultural Investors	10.8%
Directors & Management	5.3%
Other Investors	33.7%

Research Coverage















EXPERIENCED BOARD AND MANAGEMENT





Malcolm Randall, NON-EXECUTIVE CHAIRMAN (B.Chem, FAICD)

An experienced company director and chairman with extensive experience in corporate management and marketing in the resources sector. Mal's experience extends over a broad range of commodities both in Australia and internationally.



Stephen Dennis, NON-EXECUTIVE DIRECTOR (B.Com, LLB)

With a career spanning more than 30 years as an experienced and well regarded company director, Stephen is currently the non-executive chairman of several ASX listed resource companies, including Heron Resources Limited, Rox Resources Limited, EHR Resources Limited and Graphex Mining Limited.



Brett Hazelden, MANAGING DIRECTOR (B.Sc, MBA, GAICD)

A Metallurgist who brings more than 21 years of experience, in project management, engineering design and operations serving the Australasian resources industry. Brett has been involved in a broad range of commodities including numerous mergers, acquisitions and due diligence reviews. As well as other roles, he has held senior positions at Rio Tinto, Fluor, Newcrest Mining and Iron Ore Holdings.



Chris Achurch, CHIEF FINANCIAL OFFICER (B.Com, CA)

Chris has worked with a number of major businesses across the exploration, mining and agricultural sectors. He possesses a comprehensive understanding of commercial accounting and audit functions, International Financial Reporting Standards and Australian Accounting Standards.



Rudolph van Niekerk, CHIEF DEVELOPMENT OFFICER / EXECUTIVE DIRECTOR (B.Eng, GAICD)

A Mechanical Engineer with more than 13 years experience in project management, operations, construction, commissioning, production ramp-up and project hand-over. Rudolph has a broad range of commodities experience both in Australia and internationally. Previous positions include senior engineering roles for DRA, Ausenco, AngloGold Ashanti and BC Iron.



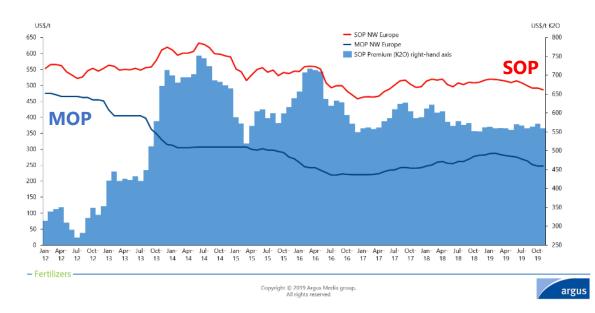
Gareth Widger, COMPANY SECRETARY (BA, GIA (Cert))

With almost four decades of experience, Gareth's career includes managing corporate administration and strategic communication activities for public and private companies across many different industry sectors.



OFFTAKE AND HISTORIC PRICING

- Binding Offtake Agreement executed with German fertiliser producer and distributor
- 10 year term, 100% of Start-up Volume
- K+S currently supplies over 50% of the Australian and New Zealand SOP markets
- Demand = Australia ~75ktpa SOP, NZ ~20ktpa SOP







Source: Integer, Argus Media



POTASSIUM MINERAL RESOURCES AND ORE RESERVES

	\ F===== / \					
JORC / CIM Resource	Drainable Brine Volume (M m³)	K Grade (mg/l)	K (Mt)	SO ₄ (Mt)	Drainable Brine SOP (Mt)	Total Brine Volume SOP (Mt)
Measured Resource	149	5,155	0.77	2.33	1.72	5.67
Indicated Resource	735	5,591	4.11	11.91	9.17	32.42
Inferred Resource	695	5,647	3.92	11.86	8.75	121.61
Total Mineral Resource	1,579	5,585	8.80	26.10	19.64	159.70
Exploration Target	920 - 2,810	1,800 - 3,300	1.6 - 9.3	5.0 - 25.6	3.7 – 20.7	40 - 250

Drainable Brine Mineral Resource complies with the Canadian (CIM, 43-101) standards and guidelines for brine deposits, as well as JORC Code (2012). German consultants K-UTEC have signed off as the Competent Persons. KLL is also part of the Association of Mining and Exploration Companies (AMEC) Potash Working Group which has developed guidelines to define a brine Mineral Resource and Ore Reserve, in order to increase the certainty, clarity and transparency in reporting of these resources, which was recently accepted by JORC. Total Brine Volume (Porosity) Estimates are provided for comparative purposes with other Australian Listed Companies who do not report Resources on a Drainable Brine basis.

Refer to Disclaimer & Compliance Statement. The Kalium Lakes Beyondie Potash Project Exploration Target is based on a number of assumptions and limitations and is conceptual in nature. It is not an indication of a Mineral Resource Estimate in accordance with the JORC Code (2012) and it is uncertain if future exploration will result in the determination of a Mineral Resource.

	JORC / CIM Reserve	Drainable Brine Volume (M m³)	K Grade (mg/l)	K (Mt)	SO ₄ (Mt)	Drainable Brine SOP (Mt)
	Proved Reserve	119	6,207	0.74	2.14	1.65
	Probable Reserve	295	5,306	1.57	4.46	3.49
	Total Ore Reserve	414	5,565	2.30	6.60	5.13

The Ore Reserve estimate has been developed using detailed integrated groundwater flow and solute transport finite element modelling in FEFLOW, an industry standard numerical groundwater modelling platform. The models have been used to simulate the Ore Reserve estimate and develop mine plans for the Beyondie SOP Project. Proved and Probable Reserve volumes were derived from the capture zones originating from the Measured and Indicated Resource zones respectively. The impacts of lake surface recharge have been determined by comparing the differences of the mine plan with and without recharge. The Ore Reserve estimate does not include any recharge. A cut-off grade of 2,500 mg/L potassium has been applied to the Ore Reserve.





JORC / CIM Resource	Drainable Brine Volume (M m³)	Mg Grade (mg/l)	Drainable Brine Mg (Mt)	Total Brine Volume Mg (Mt)	
Measured Resource	149	4,742	0.71	2.33	
Indicated Resource	735	5,058	3.72	13.27	
Inferred Resource	695	5,881	4.09	59.36	
Total Mineral Resource	1,579	5,390	8.52	74.96	
Exploration Target	920 - 2,810	1,900 - 3,900	1.9 – 10.4	23 – 120	

Drainable Brine Mineral Resource complies with the Canadian (CIM, 43-101) standards and guidelines for brine deposits, as well as JORC Code (2012). German consultants K-UTEC have signed off as the Competent Persons. KLL is also part of the Association of Mining and Exploration Companies (AMEC) Potash Working Group which has developed guidelines to define a brine Mineral Resource and Ore Reserve, in order to increase the certainty, clarity and transparency in reporting of these resources, which was recently accepted by JORC. <u>Total Brine Volume (Porosity) Estimates are provided for comparative purposes with other Australian Listed Companies who do not report Resources on a Drainable Brine basis.</u>

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Compliance Statement

The information in this document is extracted from the report titled "TECHNICAL REPORT FOR THE BEYONDIE POTASH PROJECT, AUSTRALIA, JORC (2012) and NI 43-101 Technical Report – Bankable Feasibility Study" dated 17 September 2018 (Report) and ASX announcement titled "Lower Operating Cos and Increased Production for BSOPP" dated 4 March 2019 (Announcement), that relates to Exploration Targets, Exploration Results, Mineral Resources and Ore Reserves and is based on information compiled by Thomas Schicht, a Competent Person who is a Member of a RPO, the European Federation of Geologists, and a registered "European Geologist" (Registration Number 1077) and Anke Penndorf, a Competent Person who is a Member of a RPO, the European Federation of Geologists, and a registered "European Geologist" (Registration Number 1152). Kalium Lakes confirms that it is not aware of any new information or data that materially affects the information included the Report and Announcement and, in the case of estimates of Exploration Targets, Exploration Results, Mineral Resources and Ore Reserves, which all material assumptions and technical parameters underpinning the estimates in the Report and Announcement continue to apply and have not materially changed. Kalium Lakes confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the Report and Announcement. Thomas Schicht and Anke Penndorf are full-term employees of K-UTEC, Schulze, K-UTEC, Thomas Schicht and Anke Penndorf are not associates or affiliates of Kalium Lakes or affiliates. K-UTEC will receive a fee for the preparation of the Report in accordance with normal professional consulting practices. This fee is not contingent on the conclusions of the Report and Announcement and Announcement of the Report and Announcement of the Rep

Thomas Schicht and Anke Penndorf have 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 JORC 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Thomas Schicht and Anke Penndorf consent to the inclusion in this document of the matters based on their information in the form and context in which it appears.





THANK YOU

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