



# Orocobre Limited

Investor Update  
January 2016

O R O C O B R E



# Cautionary Notes

This presentation has been prepared by the management of Orocobre Limited (the 'Company') in connection with meetings with institutional investors, for the benefit of brokers and analysts and not as specific advice to any particular party or person. The information is based on publicly available information, internally developed data and other sources. Where any opinion is expressed in this presentation, it is based on the assumptions and limitations mentioned herein and is an expression of present opinion only. No warranties or representations can be made as to the origin, validity, accuracy, completeness, currency or reliability of the information. The Company disclaims and excludes all liability (to the extent permitted by law) for losses, claims, damages, demands, costs and expenses of whatever nature arising in any way out of or in connection with the information, its accuracy, completeness or by reason of reliance by any person on any of it.

This presentation contains "forward-looking information" within the meaning of applicable securities legislation. Forward-looking information is often characterized by words such as "plan", "expect", "budget", "target", "project", "intend", "believe", "anticipate", "estimate" and other similar words or statements that certain events or conditions "may" or "will" occur. Forward-looking information may include, but is not limited to, the financing and profitability of the Olaroz Project, the successful commissioning and ramp-up of the Olaroz Project, the commencement and increase in commercial production at the Olaroz Project and the timing thereof, the design production rate for lithium carbonate and potash at the Olaroz Project, the expected brine grade at the Olaroz Project, the expected operating costs at the Olaroz Project and the comparison of such expected costs to expected global operating costs, the ongoing working relationship between Orocobre and the Provinces of Jujuy and Salta, the future financial and operating performance of the Company, its affiliates and subsidiaries including Borax Argentina, the estimation and realization of mineral resources at the Company's projects, the viability, recoverability and processing of such resources, timing of future exploration at the Company's projects, timing and receipt of approvals, consents and permits under applicable legislation, trends in Argentina relating to the role of government in the economy (and particularly its role and participation in mining projects), adequacy of financial resources, forecasts relating to the lithium, boron and potash markets, production and other milestones for the Olaroz project, the Olaroz project's future financial and operating performance including production, rates of return, operating costs, capital costs and cash flows, potential operating synergies between the Salinas Grandes and Cauchari projects and the Olaroz project, the potential processing of brines from the Cauchari Project and the incremental capital cost of such processing, expansion, growth and optimisation of Borax Argentina's operations, the integration of Borax Argentina's operations with those of Orocobre and any synergies relating thereto and other matters related to the development of the Company's projects and the timing of the foregoing matters.

Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause actual results to be materially different from those expressed or implied by such forward-looking information, including but not limited to the risk of further changes in government regulations, policies or legislation; that further funding may be required, but unavailable, for the ongoing development of the Company's projects; fluctuations or decreases in commodity prices; uncertainty in the estimation, economic viability, recoverability and processing of mineral resources; risks associated with development of the Olaroz Project; unexpected capital or operating cost increases; uncertainty of meeting anticipated program milestones at the Olaroz Project or the Company's other projects; general risks associated with the feasibility and development of the Olaroz Project and the Company's other projects; risks associated with investments in publicly listed companies, such as the Company; risks associated with general economic conditions; the risk that the historical estimates for Borax Argentina's properties that were prepared by Rio Tinto, Borax Argentina and/or their consultants (including the size and grade of such resources) are incorrect in any material respect; the inability to efficiently integrate the operations of Borax Argentina with those of Orocobre; as well as those factors disclosed in the Company's Annual Report for the year ended June 30, 2015 filed at [www.sedar.com](http://www.sedar.com).

Forward-looking information is based on a number of assumptions and estimates that, while considered reasonable by the Company, may prove to be incorrect. Assumptions have been made regarding, among other things: the Company's ability to carry on its exploration and development activities at its projects and to continue production at Borax Argentina's properties, the timely receipt of required approvals, the prices of lithium, potash and boron, the ability of the Company to operate in a safe, efficient and effective manner and the ability of the Company to obtain financing as and when required and on reasonable terms. Readers are cautioned that the foregoing list is not exhaustive of all factors and assumptions which may have been used. Although the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking information, there may be other factors that cause results not to be as anticipated, estimated or intended. There can be no assurance that such information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information. Accordingly, readers should not place undue reliance on forward-looking information. The Company does not undertake to update any forward-looking information, except in accordance with applicable securities laws.

# Investment Highlights

- Production ramping up with operating cost breakeven expected in January and nameplate capacity in September 2016
- Lithium carbonate being sold into chemical, industrial and battery sectors with customer demand significantly outstripping available production. Deliveries to five new battery market customers to commence in February
- Globally strategic asset, with long life and capable of significant expansion above Stage 1 17,500tpa capacity
- Following ramp up Olaroz will have the profile of a low operating cost/high margin operation
- Changes in Argentinian government and economic policy favourable for Orocobre
- Strong market conditions – the right time to enter the market:
  - Forecast new supply and expansions did not eventuate – Olaroz the only new supply
  - Accelerating multi-billion dollar investments by global automobile manufacturers, energy utilities and battery manufacturers yet to impact on demand
  - High pricing could be sustained due to supply and demand profile coupled with lithium carbonate being a small component of overall battery pricing reducing pricing sensitivity
- Large brine inventory equivalent to greater than 40,000 tonnes of lithium carbonate equivalent in pond system
- Expansion studies to commence in Q2
- Board and management have extensive relationships and operating expertise in Argentina
- Borax Argentina turn around in place. Growth/optimisation initiatives currently underway in borax products and minerals
- Cauchari & Salinas Grandes brines provide opportunities for independent development or integration with Olaroz operation
- Bateman Advanced Technologies study for lithium hydroxide production commenced

# Capital Markets Snapshot (ASX:ORE,TSX:ORL)

## Capital Structure (as at 19 Jan 2015)

<b>Shares outstanding</b>	<b>169m</b>
Performance Rights and Options outstanding	1.89m
<b>Cash Balance</b> (as at 31 Dec 2015)	US\$1.7m
<b>Share price ASX/TSX</b>	<b>A\$2.54/C\$2.44</b>
<b>Market Capitalisation</b>	<b>A\$429.3m</b>
52 week share price range (close):	
ASX	A\$1.33-A\$2.95
TSX	C\$1.33-C\$2.80

## Share Price Chart



## Shareholders

Executives and Directors	~8.3%
Renaissance Asset Management	6.3%
Henderson Global Investors	5.7%
Institutions	~48.9%

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# Olaroz Facility Operations – Ramp Up

*Final stage de-bottlenecking reached with ramp-up continuing.....*

## Production update

- In ramp up stage with production increasing month on month from 93t in July to 427t in December
- Forecast production of 600-650t in January and achievement of operating cost break even
- Nameplate capacity production forecast to be achieved in September 2016
- Qualification process completed with a range of battery customers. Commercial orders now in hand to supply five battery market customers with deliveries scheduled to commence in February
- Large inventory of over 40,000 tonnes of lithium carbonate equivalent in the pond system

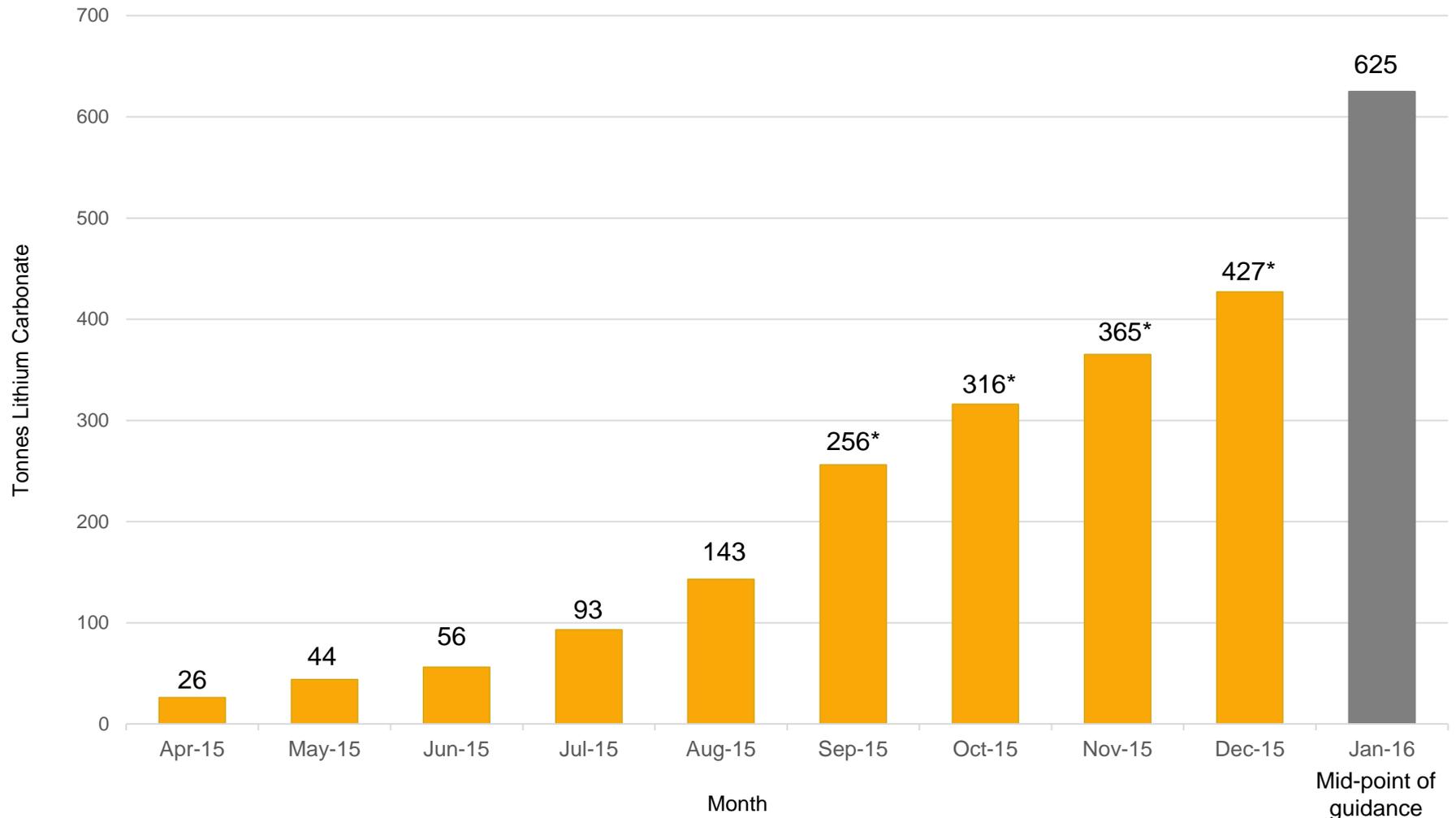
## Plant update

- Now in the final stages of de-bottlenecking and ramp up and expected to be completed in January 2016, permitting final stage of ramp up
- Rectification of construction defects and removal of bottlenecks at the plant, as well as installation of additional boiler capacity, direct steam injection, centrifuges and acid washing systems has cost approximately US\$8 million



Finished lithium carbonate awaiting dispatch

# Olaroz Facility Operations – Production Ramp Up



\*Sep, Oct, Nov & Dec figures include lithium carbonate tonnes recovered from the purification circuit

# Favourable Argentine Government Policy Changes

## Effective floating of Argentine Peso

- Argentine Peso has devalued by ~35% against the US Dollar since December following new President Macri's appointment
- Devaluation lowers US\$ equivalent cost on AR\$ operational denominated costs improving competitiveness for Olaroz and Borax Argentina
- Devaluation strengthens SBLC US Dollar guarantees against AR\$ , creating additional in-country funding availability

## Removal of dollar clamp

- Reduced risk of delay in receiving imported equipment and consumables
- Permits free flow of dividends in the future from ORE's operating companies

## Elimination of 5% export duty on lithium carbonate and refined boron products

- Removal of 5% duty will increase the competitiveness of high grade lithium and refined borates products

## Removal of controls on the importation of goods into Argentina

- Will enable easier and quicker international sourcing of materials and equipment
- Removes some of the procurement challenges previously encountered

# Use of Funds

Sources and uses of funds to December 2016 - Orocobre	A\$m	US\$m
<b>Sources of funds</b>		
Cash on hand	2.9	2.0 <sup>1</sup>
Release of Orocobre guarantees and reduction of SDJ overdrafts	5.0	3.4
Capital raising proceeds	85.0	57.8
<b>Total sources of funds</b>	<b>92.9</b>	<b>63.2</b>
<b>Uses of funds</b>		
Loan to Sales de Jujuy S.A. joint venture - see below for breakdown of SDJ outflows	21.0	14.3
Repayment of TTC advance to SDJ	10.1	6.9
Debt service reserve account	14.4	9.8
Corporate costs	4.4	3.0
Bateman lithium hydroxide study	2.2	1.5
Cash buffer	40.7	27.7
<b>Total uses of funds</b>	<b>92.9</b>	<b>63.2</b>

Sources and uses of funds to December 2016 - Sales de Jujuy S.A. Joint Venture	A\$m	US\$m
<b>Sources of funds<sup>2</sup></b>		
Receipt of loans from Orocobre	21.0	14.3
SDJ operating cash flow and drawdown of HSBC overdraft	23.8	16.2
<b>Total sources of funds</b>	<b>44.9</b>	<b>30.5</b>
<b>Uses of funds</b>		
Principal and interest payments (project finance facility) – March and September 2016	28.2	19.2
Sustaining capital, “debottlenecking” payments and redundancy/optimisation program	8.8	6.0
Pay down of creditors	6.6	4.5
Expansion studies for Phase 2	1.1	0.8
<b>Total uses of funds</b>	<b>44.8</b>	<b>30.5</b>

Under a stress testing scenario where the ramp up to nameplate is delayed by 6 months, the cash buffer would decrease to US\$18.4m, loans from Orocobre to SDJ would increase by US\$6m to US\$20.3m, and there would be no release of ORE guarantees or SDJ overdraft reductions

- Cash on hand includes \$0.3m from options exercised in January 2016
- SDJ has unused credit facilities at 1 January 2016 of US\$7.4m based on an exchange rate of ARS\$ 11.6 / US\$



**Lithium Market**

# Lithium Sales and Market Overview

## Sales Orders

### Commercial Dispatches

- Commercial sales of lithium carbonate continue to be dispatched from the facility to Europe, Asia and the USA
- Commercial orders in hand to supply five battery market customers with deliveries scheduled to commence in February

### Production Committed

- Customer demand in excess of CY16 production
- With sector moving towards quarterly supply contracts, Orocobre has increasing leverage to expected higher prices

### Security of Supply

- Primary customer concern relates to obtaining long term security of supply

## Market

**Supply Tight:** Supply side is tight with no new entrants in the western world in the short term

**Strong Demand:** The lithium market continues to demonstrate strong demand and tight supply, with market growth of ~10% CAGR

**Price Increase :** Existing suppliers announced price increase for lithium products of 15% effective October 2015, multiple information sources stating high spot prices with supply/demand profile suggesting longer term pricing movement

**Our market experience is that lithium carbonate prices are continuing to increase from a level of \$5,000-\$5,500/tonne last year to currently be in excess of US\$6,000/tonne and further price growth expected in 2016**

# Lithium: Right Place, Right Time....

## Limited sources of new supply:

- Limited number of economically extractable lithium resources
- Very concentrated global production : ~80% of world supply from Chile (SQM, Albemarle), Argentina (FMC) & Australia (Talisson)
- Majority of Talison supply goes straight to China
- In the short to medium term, new supply will only come from Olaroz and Albemarle (subject to licence approvals)

## Current producers face supply challenges:

- Declining volumes
- High cost hard rock lithium extraction
- 20KT Albemarle expansion is subject to environmental approvals (brine availability) and will take +2 years from approval to produce concentrated brine.

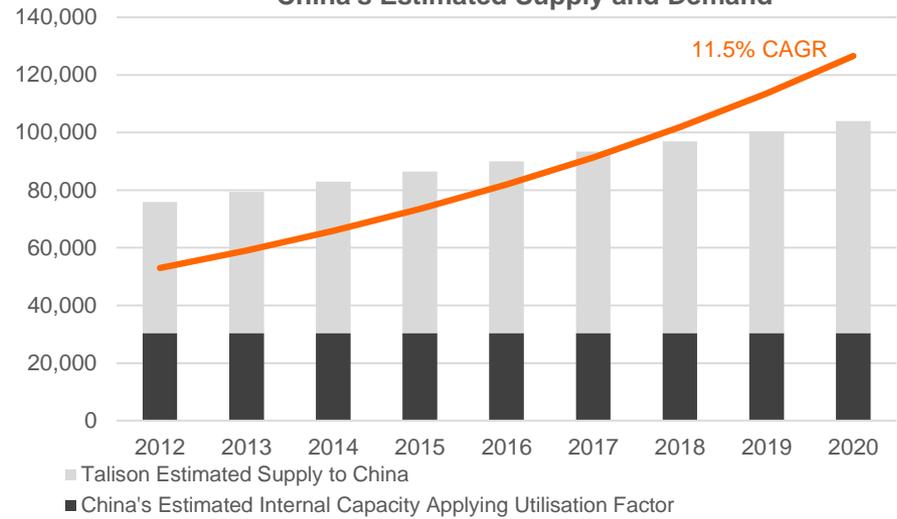
## Demand expected to outstrip supply from 2017

- The market demand in 2015 is estimated at approximately 197,000tpa with an anticipated CAGR of ~10%
- Demand is forecast to outstrip supply from 2017 in China and 2015-16 for the rest of the world

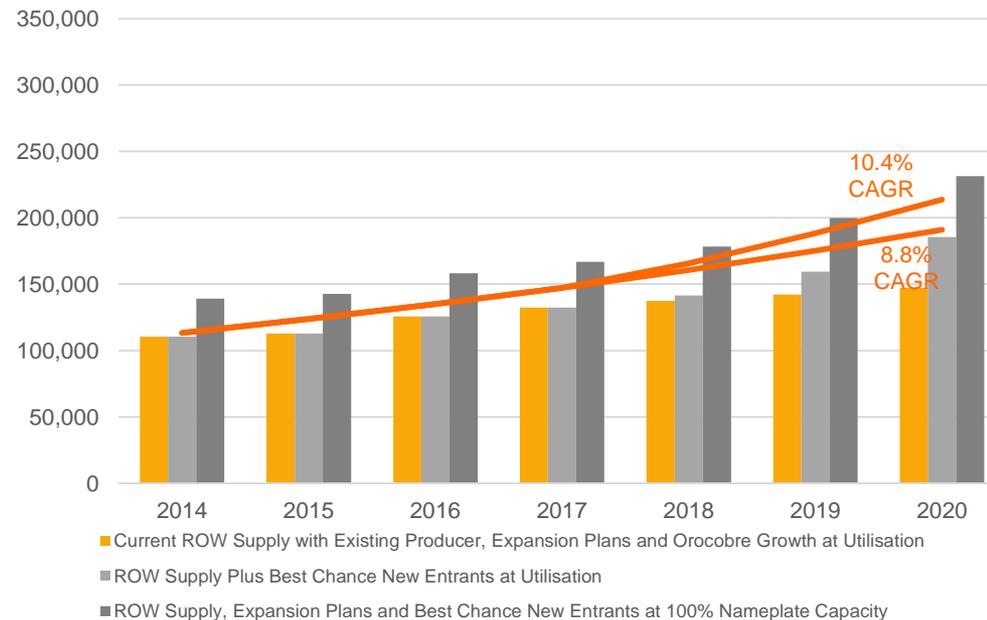
**Orocobre has a large, low cost, expandable resource and a strategy to expand in line with market growth**

Source: Company websites, analyst reports and Orocobre estimates.  
Utilisation factors applied @ 85% for ROW and 60% for China

### China's Estimated Supply and Demand



### Rest Of The World Supply and Demand



# Lithium: Right Place, Right Time....

## Comments by key lithium producers on market growth, pricing and supply:

**Rockwood:** "...worldwide, the demand for lithium products will probably grow by 15% to 20%. The issue for Rockwood is going to be, can we actually supply it?" <sup>1</sup>

**FMC:** "The market for lithium grew about 7% in 2014 and growth is expected to continue over 10% annually through 2020 driven in large part by energy storage demand." <sup>2</sup>

**FMC:** All products including lithium carbonate, lithium chloride, lithium hydroxide and all other products except Specialty Organics will increase by 15 percent. Specialty Organics products, which include all grades of butyllithium, will increase by \$3.50 per kilogram on a contained basis." <sup>3</sup>

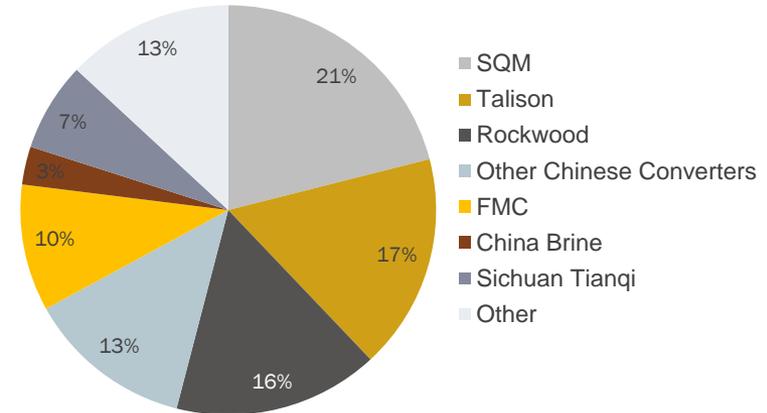
**SQM:** "Prices continue to feel upward pressure, accordingly, our average prices for the nine month period ended September 30, 2015 exceeded US\$5,700, and increase of almost 9% when compared to the same period last year." <sup>4</sup>

### Multiple industrial applications:

- Lithium is used in a number of industrial applications, including batteries, ceramics and glass
- Key drivers of growth include increasing demand for portable personal devices and electric vehicles
  - Use of battery-grade lithium in portable electronic devices has grown at ~20% per year since 2000

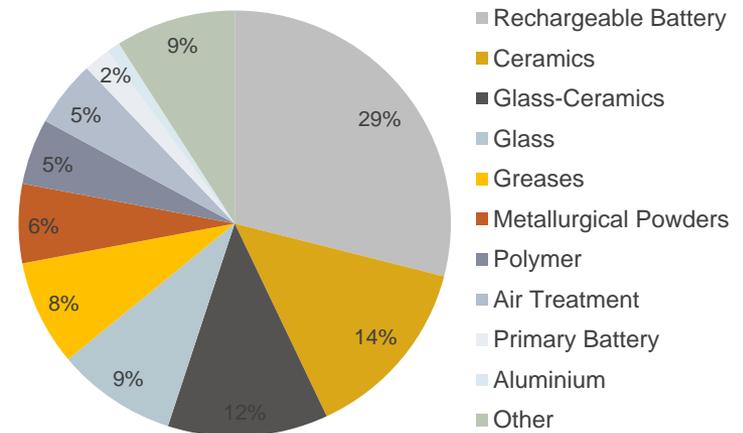
1. Rockwood 03 March 2014 Conference Call
2. FMC Management Presents at Credit Suisse Basic Materials Brokers Conference, September 2015
3. FMC Corporation Announcement, September 2015
4. SQM Q3 2015 Results Conference Call, November 2015

## Lithium Supply by Company



Source: Roskill Information Services, 2013

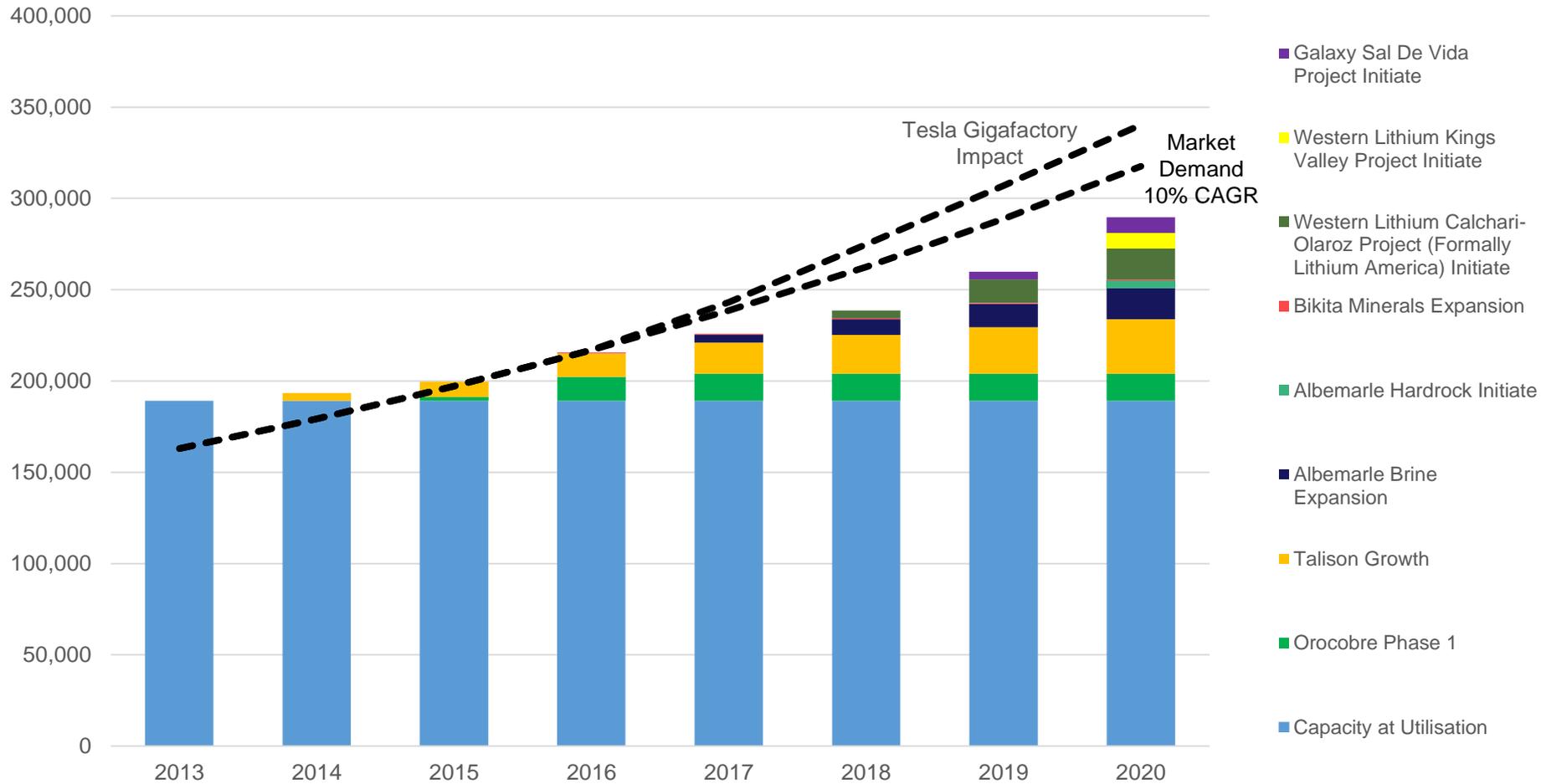
## Lithium Demand by Market



Source: Roskill Information Services 2014 estimates

# Orocobre Market View

Orocobre Estimates: Capacity growth through brine expansion projects and new brine producers applying utilisation rates



*How will lithium demand be impacted from other battery megafactories coming online?*

Notes: Rest of the world 85% utilisation, China 60% utilisation, Talison's capacity considered in line with Chinese converter plant limitations and Europe industrial market. Estimated Talison's 65,000tpa base as of 2013 increasing 4.25k mt per year.

Source: Company websites and Orocobre estimates

# Battery Megafactories are coming....



LG Chem, a Korean battery manufacturer, is constructing a plant in Nanjing, China with annual production capacity of more than 100,000 electric vehicles. It will supply batteries to Chinese automakers



Tesla, in partnership with Panasonic, is building a 35Gwh facility in Nevada, and expects to begin battery cell production in 2017 and reach full capacity by 2020 - producing more lithium ion batteries annually than were produced worldwide in 2013



Foxconn, a Taiwanese iPhone manufacturer, has also announced plans to invest \$814m in building a gigafactory China and to become a major player in the Chinese electric car market

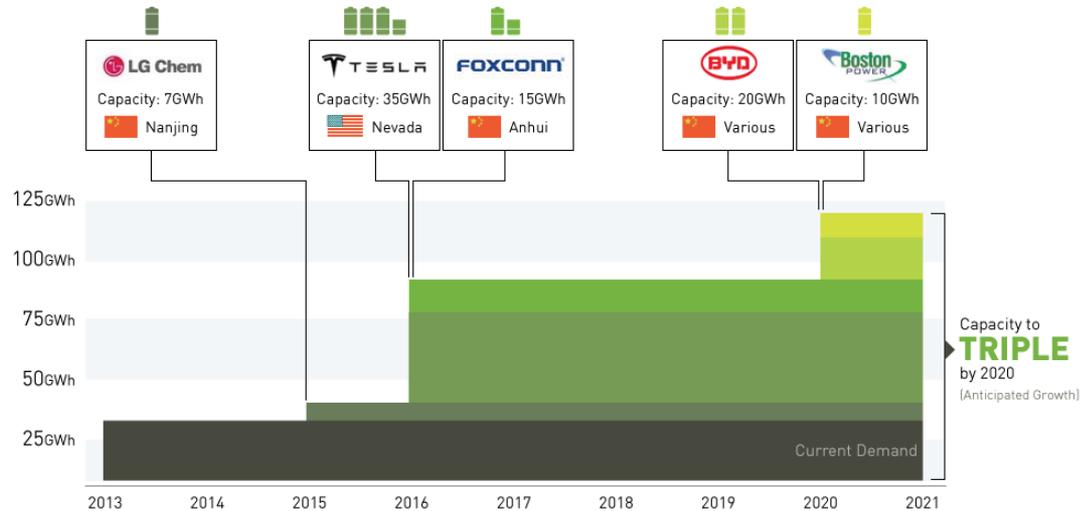


Boston Power is a developer and manufacturer of Li-ion batteries. It has R&D facilities in the US and China and manufacturing facilities in China. Boston Power recently received funding from local Chinese governments to substantially expand its existing battery manufacturing facilities in China

## Chart of the Week

### THE LITHIUM-ION BATTERY MEGAFABRIES ARE COMING

Production capacity of lithium-ion batteries is anticipated to more than triple by 2020



\*Benchmark estimates, not all data disclosed by companies \*\*Instant planned capacity stated for graphical purposes, slower ramp up expected

Data by:



visualcapitalist.com

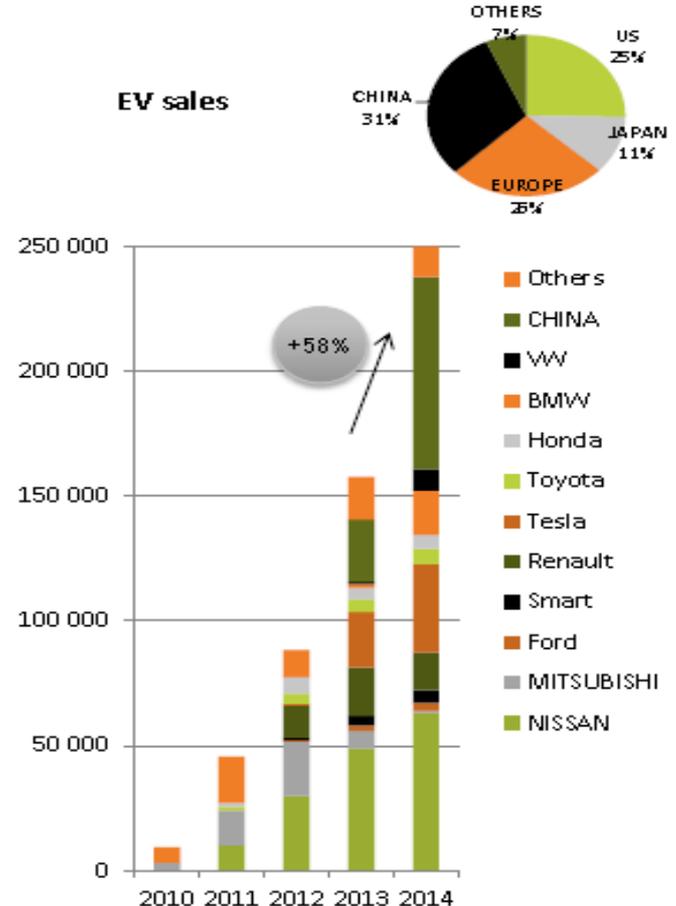
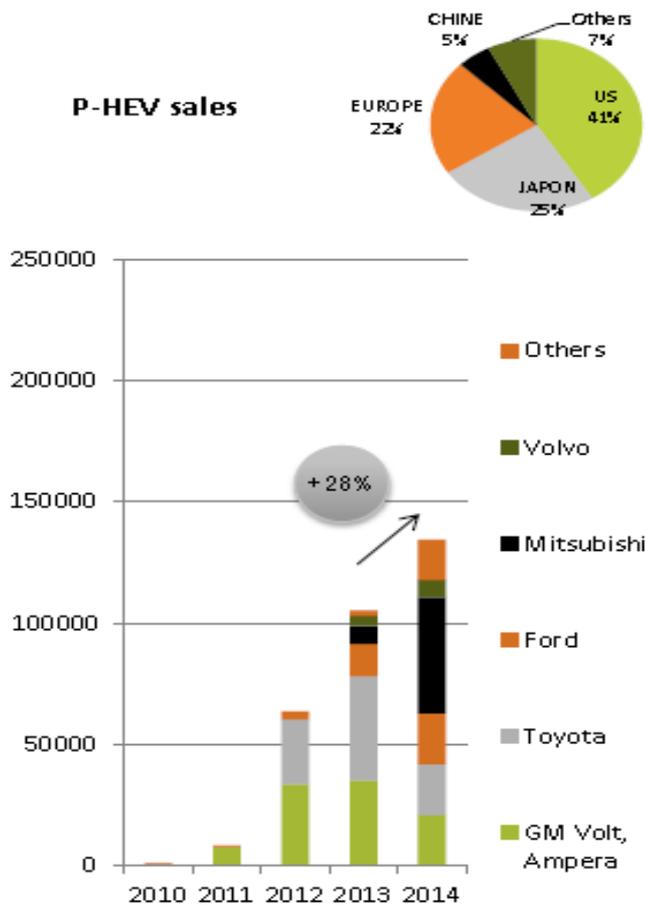


Build Your Dreams (BYD) is a Chinese automaker. BYD currently has about 6GWh of capacity, with plans to significantly increase capacity via factories in both China and Brazil



# Rapid growth in P-HEV and EV Sales from 2010-2014

## P-HEV & EV SALES 2010-2014 (YEARLY)



Source: AVICENNE ENERGY Analyses

## Ford to invest \$4.5 Billion in Electric Vehicles



# Lithium Market Outlook – Benchmark Minerals Commentary<sup>1</sup>

“The price of lithium carbonate and hydroxide continued to rise through the fourth quarter of the year **sparking fears from buyers that the industry is to remain in shortage for some time.**”

“Strong lithium-ion battery demand in Asia has seen prices surge in 2015 and **no end appears in sight** as a new wave of full electric vehicles (EVs) are set to come into production over the next 18 months.”

“The **battery sector is in the middle of a shift from megawatt capacity plants to gigawatt operations** in order to fill expected demand from the auto sector and utility storage industry.”

“Benchmark Mineral Intelligence **estimates that the EV battery market will grow five-fold between 2015 and 2020** while the market for **stationary storage will increase 8-fold.**”

“Alliances are already taking shape with Samsung SDI acting as battery supplier to BMW, VW, and Chrysler; LG Chem supplying General Motors, Renault, Ford and Hyundai; and of course Panasonic (the market leader with a 38% share) supplying Tesla”

“**The lithium industry is at the start of a supply shortage.**”



## **Olaroz Lithium Operations**

# Olaroz Lithium Project Summary

<b>Location</b>	<ul style="list-style-type: none"> <li>Salar de Olaroz, Argentina</li> </ul>
<b>Large resource</b>	<ul style="list-style-type: none"> <li>Large measured and indicated resource of 6.4 Mt LCE, 19.3 Mt KCl &amp; 1.85Mt B to only 197m depth</li> <li>High lithium resource grade of 690mg/l Li, Low Mg/Li ratio of 2.4 <sup>(1)</sup></li> </ul>
<b>Exploration Target</b>	<ul style="list-style-type: none"> <li>Exploration target of 1.6 and 7.5 million metric tonnes of lithium carbonate equivalent between 197m and 323m depth in thick continuous sand sequences. Basin potentially 600m deep and additional targets to the north and the south of the exploration target area. It must be stressed that an exploration target is not a mineral resource<sup>(2)</sup>  <i>The potential quantity and grade of the exploration target is conceptual in nature, and there has been insufficient exploration to define a Mineral Resource in the volume where the Exploration Target is outlined. It is uncertain if further exploration drilling will result in the determination of a Mineral Resource in this volume. It is anticipated that additional drilling would be conducted in financial year 2016, to further evaluate the exploration target and to assist longer term development planning .</i></li> </ul>
<b>Production</b>	<ul style="list-style-type: none"> <li>Stage 1 of 17,500tpa battery-grade lithium carbonate</li> <li>Optional 20,000tpa KCl</li> <li>Potential for boric acid production via solvent extraction</li> </ul>
<b>Excellent economics</b>	<ul style="list-style-type: none"> <li>Site cash operating cost of &lt;US\$2,500/t of lithium carbonate <sup>(3)</sup></li> <li>Medium term expected pricing of ~US\$6,500-\$9,000/t</li> <li>Brine offers material operating cost advantage vs hard rock</li> </ul>
<b>High specification battery-grade LCE</b>	<ul style="list-style-type: none"> <li>“Olaroz process” can produce high purity product</li> <li>Pilot plant production for 4 years for product qualification. Industrial plant produced “on spec” product almost immediately</li> </ul>
<b>Life of mine and expansion</b>	<ul style="list-style-type: none"> <li>40 year mine life utilises only ~15% of existing resources</li> <li>Sustainable long life project with expansion potential for lithium carbonate, potash and boron</li> <li>Expansion for Li at 40% discount per tonne of capacity compared to original capital cost</li> </ul>
<b>Ownership</b>	<ul style="list-style-type: none"> <li>Orocobre 66.5%, Toyota Tsusho Corporation (TTC) 25%, and JEMSE (provincial government) 8%</li> <li>TTC also facilitated debt financing through Mizuho &amp; JOGMEC and is acting as marketing agent</li> </ul>

1.Refer to Resource Statements Appendix

2.Refer to Resource Statements Appendix.

3.At full production (excluding any potash or boron credits)

# Lithium Project pipeline

## Olaroz expansion potential

- Potential stage 2 expansion of an additional 17,500tpa
- CAPEX cost anticipated to be 40% (per tonne capacity ) less than the establishment CAPEX for Stage 1
- Simple expansion – focus on bore fields, ponds and plant as all infrastructure already in place and benefit of experience on Phase 1
- Expansion studies to commence Q2 with potential development from CY17 – Inclusion of Lithium hydroxide to be considered

## Lithium Hydroxide MOU

- MOU for a staged process to evaluate the potential development of a 15-25KT p.a. lithium hydroxide plant with Bateman Advanced Technologies (BAT). It is a staged process involving mini pilot plant, pilot plant, feasibility study and commercial development.
- The Company will decide at the conclusion of each stage whether to proceed to the next stage

## Other projects

- **Cauchari:** immediately south of Olaroz plant, inferred resource 470Kt LCE, 1.6Mt KCL & 122Kt B (1). Potential for incremental production for Olaroz
- **Salinas Grandes:** Li-K project with excellent grades & chemistry. Inferred Resource 240,000t LCE, 1.0Mt KCL & 12Kt B (2). Synergies with Olaroz and potential to produce a concentrated brine product



1 Refer to Resource Statements Appendix

2 Refer to Resource Statements Appendix

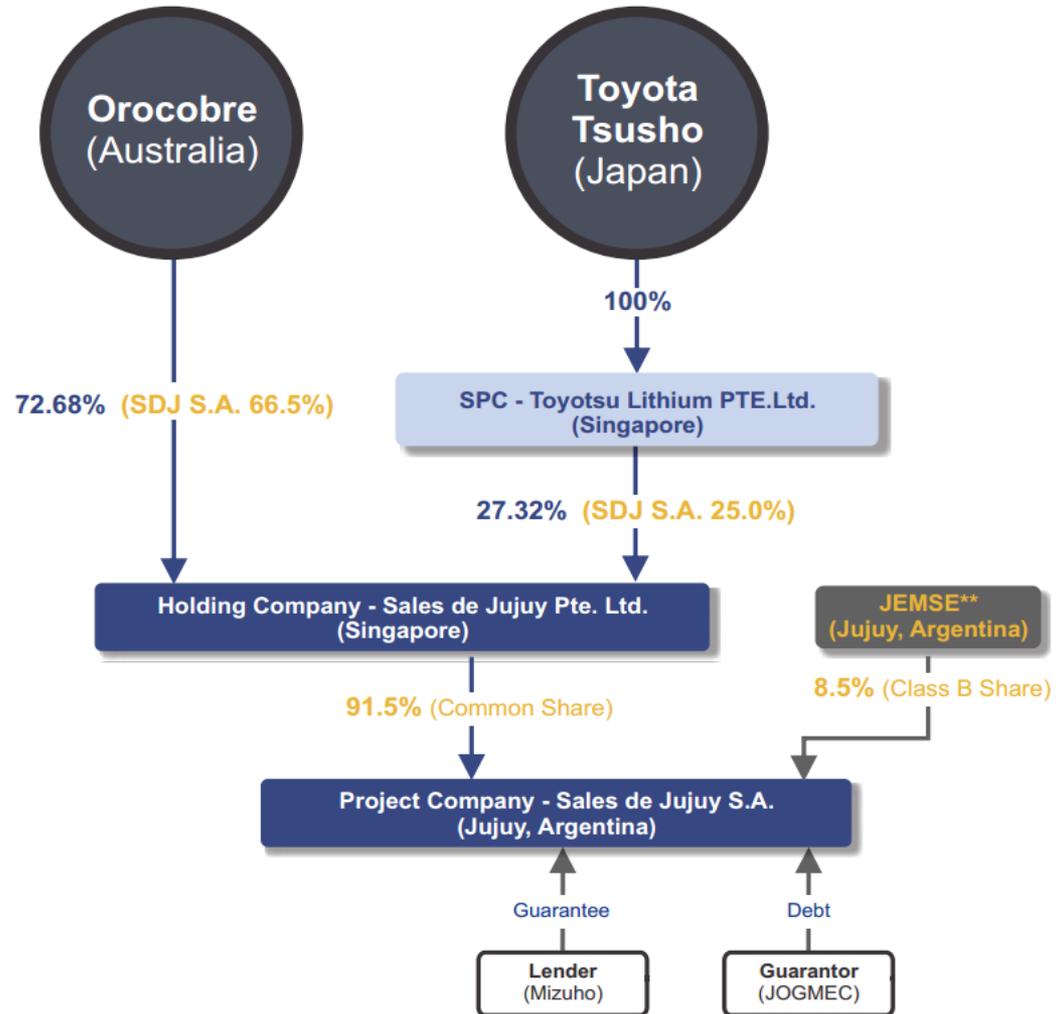
Notes: The conversion rate used is 5.32 tonnes of lithium carbonate equates to 1 tonne of lithium metal and 1.91 tonnes of muriate of potash equates to 1 tonne of potassium metal.

# Olaroz Lithium Project Corporate Structure

## Description of Corporate Structure

- The Olaroz Project Joint Venture is operated through the operating Company named Sales de Jujuy S.A. (“SDJ”)
- The shareholders of SDJ are Sales de Jujuy Pte. Ltd. (“SDJ PTE”), a joint-venture vehicle for Orocobre and Toyota Tsusho Corporation (“Toyota”), and the Jujuy Provincial Government Mining Company (“JEMSE”)
- The effective Olaroz project equity interest is:
  - Orocobre: 66.5%
  - Toyota: 25.0%
  - JEMSE:8.5%

## Corporate Structure Diagram



# Strong Partners - Toyota Tsusho, JOGMEC, Mizuho

## Toyota Tsusho Partnership

- Toyota Tsusho Corporation (“TTC”) is 22% owned by Toyota Motor Corporation and 11% owned by Toyota Industries, and is one of Japan’s leading global trading houses
- TTC is a large Japanese trading house with worldwide operations, international network and has profiled the lithium market in detail and developed customer relationships for Olaroz lithium carbonate over the past 3-4 years
- Definitive Shareholders Agreement executed in October 2012 for a joint venture to develop the Olaroz Project
- Low cost financing package from Japan facilitated through TTC and arranged by Mizuho Corporate Bank (“Mizuho”)
- TTC has agency rights (on a commission basis) for lithium carbonate production from the first stage



## Key Terms of Olaroz Financing

Equity Financing	<ul style="list-style-type: none"> <li>• Orocobre 66.5%, TTC 25%, JEMSE 8.5% (funded by Orocobre)</li> <li>• Total project equity of US\$82.8 million</li> </ul>
Debt Financing	<ul style="list-style-type: none"> <li>• Up to US\$191.9 million available based on US\$229.1 million CAPEX</li> <li>• ~4.5% fixed rate, term of 10 years after grace period</li> <li>• Dividends payable twice yearly after debt service</li> </ul>
Guarantees / Commitments	<ul style="list-style-type: none"> <li>• JOGMEC guarantee for 82.4% of drawn debt post completion</li> <li>• Additional guarantees from TTC</li> </ul>

# Olaroz – The Journey



**Construction Begins**



**Empty Evaporation Pond**



**First Pumping of Brine – August 2013**



**Liming Plant**

# Olaroz – The Journey



Evaporation pond post magnesium removal/lime addition



Lithium Carbonate Plant – primary and purification circuits



Primary Lithium Carbonate



Micronizing Circuit

# First Commercial Dispatch, April 2015



# Awarded Argentinian Mining Company of the Year in 2012 & 2014





## **Borax Argentina & Other Operations**

# Borax Argentina summary

- Acquired Borax Argentina in August 2012 from Rio Tinto for US\$8.5m (US\$5.5m paid upfront, then US\$1m for 3 years)
- Goal: to turn around performance and invest to grow business  
Achievements so far:
  - A\$1.5m EBITDA in FY14, a \$4.6m improvement over FY13 with 6% sales growth
  - Reduced boric acid production cost by ~US\$200/mt
- However, headwinds in FY15 due to softening economy in Brazil and Argentina, an overvalued peso and slower ramp up after plant relocation.
- Proximity to Olaroz excellent – achieved aim of diversification to industrial mineral and chemicals company
- Annual production in excess of 40,000t of boron chemicals & mineral concentrates
- Three product streams: borax, boric acid and boron minerals
- Operations include three open pit mines and concentration plants in Tincalayu, Sijes & Porvenir
- Refinery operations at Campo Quijano have historically produced various boron chemical products
- Reliable supplier of high quality products with long-term relationships with key South American industrial and agricultural customers
- Substantial JORC compliant resources at Tincalayu and Porvenir and historical estimates on other deposits (RTM)
- Sijes is the next location to be upgraded from a historical estimate to a JORC compliant resource



# Borax Argentina Products & Markets

with a variety  
of market uses  
**GROWING**  
on average  
**4-6%** pa

**EVERYTHING**

from what we **eat**  
    
to where we **live**  
**RELIES ON**  
quality supply of  
**boron** products

## Borate Minerals

Global Market B2O3 equivalent -  
803kt global trade in 2013



Ceramics  
Agriculture

## Borax

Global Market B2O3 equivalent -  
1,578kt global trade in 2013

Glass  
Fluxes  
Ceramics  
Fertilisers  
Fibreglass



## Boric Acid

Global Market B2O3 equivalent -  
825kt global trade in 2013

Glass  
Fluxes  
Ceramics  
Fertilisers  
Wood preservatives



# Borax Argentina – Current Production & Growth Initiatives

Product streams	Production per annum	Orocobre Initiatives to Grow Borax	Use	Pricing	Approx. Size of global market B2O3 equiv.	Key competitors
<b>Borax</b>	Plant capacity: >30,000tpa of borax decahydrate equivalent (currently 60% utilised)	Relocation of Bx10 refining plant from Campo Quijano to Tincalayu mine completed June 2014  Marginal cut-off of 2.8% B2O3 , appropriate for a possible expanded production rate of 100,000tpa borax decahydrate - Indicated and Inferred Resource of 17.8 million tonnes at 11% B2O3.	Glass, ceramics, technical grade fibreglass, insulation grade fibreglass, fluxes & fertilisers	Different for each product.  Price range approx. US \$550-1100/t FOB	1,578k t global trade in 2013	Eti RTM SVM Russian Bor
<b>Boric acid</b>	Current plant capacity: 9,000tpa  PFS completed on a 25,000tpa plant at Olacapato	Current plant capacity: 9,000tpa. Fully funded project near completion to increase capacity to 12,000tpa.  PFS completed on a 25,000tpa plant at Olacapato	Glass, ceramics, fertilisers and wood preservatives	Price range approx. US\$700/t to \$1,250/t CIF over the past 5 years (industrial grade)	825k t global trade in 2013	Eti RTM Russian Bor MSR INKABOR QUI BORAX
<b>Borate minerals</b>	25,000tpa processed borate minerals	Upgrading the Sijes hydroboracite deposit from historical estimates to JORC compliance  Life of Mine Study planned for Tincalayu	Ceramics and agriculture	Price range approx. US \$200-\$600/t FOB dependent on quality/specification/ application	803k t global trade in 2013	Eti Russian Bor



**Additional Information**

# Board & Management



**James Calaway**  
Non-Executive  
Chairman

Mr Calaway and his family have played major roles in the development of both public and private companies in the United States, including companies engaged in oil and gas exploration and production and alternative energy development. Mr Calaway currently serves as Chairman of the Board of Distributed Power Partners, a leader in clustered distributed solar power development, and has served as a Director on several other U.S. corporate boards. Mr. Calaway is active in the Houston community recently serving as the Chairman of the Board of the Centre for Houston's Future, and the Chairman of the Houston independent School District Foundation, among others. Mr Calaway is a graduate of the University of Texas and the University of Oxford.



**Richard Seville**  
Managing Director &  
CEO

Mr. Seville is a mining geologist and geotechnical engineer with over 30 years' minerals sector experience covering exploration, mine development and mine operations. He has had significant corporate experience, having had many years in the role of Operations Director and/or CEO in ASX/AIM listed mining companies. Mr. Seville is a graduate of the Royal School of Mines, Imperial College and James Cook University North Queensland.



**John Gibson Jr**  
Non-Executive Director

Mr. Gibson, is a recognised leader in the energy technology and services industry with more than 25 years of global energy experience. Mr. Gibson was until recently the Chief Executive Officer of Tervita Corporation and is currently a Director of Tervita, a major Canadian environmental and oil field services company. Prior to joining Tervita, Mr. Gibson served as Chief Executive Officer of an enterprise software solutions company serving oil and gas industry clients and has held senior positions with the Halliburton Group of Companies, most recently as President of Halliburton's Energy Services Group. He is a member of the University of Houston Energy Advisory Committee, and Houston Baptist University Board of Trustees.



**Frederico Nicholson**  
Non-Executive Director

Mr. Nicholson was Vice President of the Argentine Industrial Union (UIA), the country's leading business advocacy group, for fourteen consecutive years (1999-2013) and currently serves as President of the Argentine North Regional Sugar Centre. Mr. Nicholson also occupies the position of First Vice President of CEADS (Consejo Empresario Argentino para el Desarrollo Sustentable) an Argentinian local division of WBCSD (World Business Council for Sustainable Development). Mr. Nicholson is also a member of the board for several other Argentina based companies.



**Fernando Oris de Roa**  
Non-Executive Director

Mr Oris de Roa is a highly successful business leader with a history of developing and operating large enterprises in Argentina. Mr Oris de Roa began his 23 year career with large trading company Continental Grain in 1970, working in USA, Spain, Switzerland, Brazil and Argentina and rose through the ranks to be responsible for all of Latin America. As Chief Executive, he is credited with turning S.A. San Miguel into the largest and most profitable lemon products company in the world. Mr Oris de Roa was Chief Executive of Avex S.A. from 2004 to 2012. He was also a Director of Patagonia Gold Ltd.



**Courtney Pratt**  
Non-Executive Director

Mr Pratt has enjoyed a 40-year career at the helm of some of Canada's top industrial businesses, particularly in the energy, minerals, and mining sectors. From 2004 to 2006, he was President and CEO of Stelco, a major Canadian steel producer, and served as Stelco's Chairman until the company's sale to the US Steel Corporation in 2007. Earlier, Mr Pratt was the President and CEO of Toronto Hydro, North America's largest municipally owned electricity distributor and also served as President and subsequently as Chairman of Noranda Inc. - in this capacity he served as a Director of a number of companies. Mr Pratt served as Chairman and Chief Executive Officer of the Toronto Region Research Alliance to March 2010. He is also Chairman of Knightsbridge Human Capital and a Director of Moosehead Breweries Limited, 407 International Inc. and CMA Holdings. Mr Pratt was awarded the Order of Canada in January 1999.



**Robert Hubbard**  
Non-Executive Director

Mr Hubbard brings a wealth of experience and pertinent knowledge to the Orocobre Board, having served for over 20 years as a partner at PricewaterhouseCoopers. During his time as a PwC partner, he served as auditor for some of Australia's largest resource companies with activities throughout Australia, Papua New Guinea, West Africa and South America. His experience has covered a range of commodities including base metals, gold, oil and gas and thermal and metallurgical coal. Mr. Hubbard also serves as a non-executive Director in various community and commercial focussed organisations. He is currently Chairman of Opera Queensland and Multiple Sclerosis Australia and a Director of UQ Health Care Pty Ltd, MS Research Australia, MS International Federation and Council member of the University of the Sunshine Coast. Mr Hubbard is also a non-executive Director of Bendigo and Adelaide Bank Ltd. Mr. Hubbard is also a member of the board of ASX listed company Primary Health Care

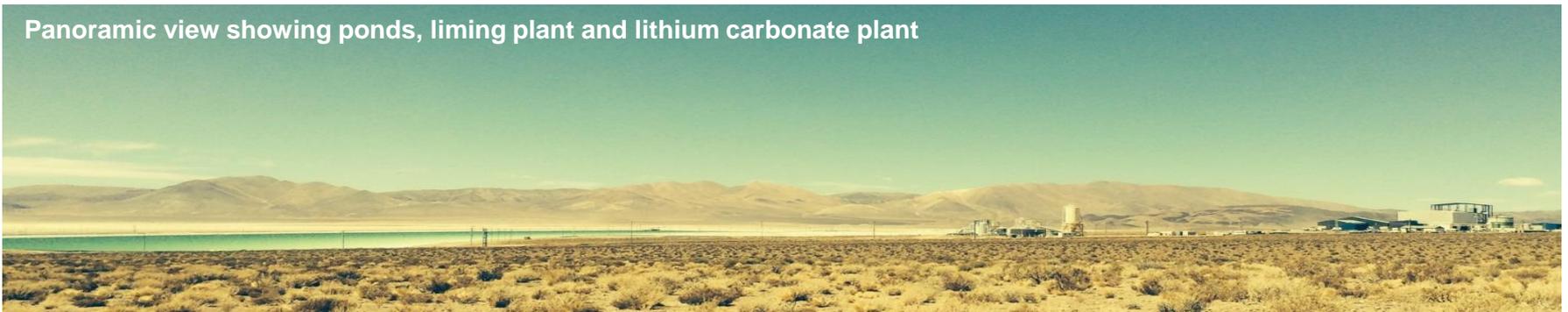
# Environment and Sustainability: A Low Environmental Footprint

## Olaroz has a very low environmental footprint

- The process is designed to have a high processing recovery of lithium. With its low unit costs, the process will result in low cut-off grades which will maximise overall resource recovery.
- The process route is designed with a zero liquid discharge design. All waste products are stored in permanent impoundments, the lined evaporation ponds. At the end of the project life the ponds will be capped and returned to a similar profile following soil placement and planting of original vegetation types.
- Brine is extracted from wells with minimum impact on freshwater resources outside the salar. Because the lithium is in sedimentary aquifers with relatively low permeability, drawdowns are limited to the salar itself. This is different from halite hosted deposits such as Salar de Atacama, Salar de Hombre Muerto and Salar de Rincon where the halite bodies have very high near surface permeability and the drawdown cones can impact on water resources around the Salar affecting the local environment.
- Energy used to concentrate the lithium in the brine is solar energy. The carbon footprint is lower than other processes.
- The process uses a limited number of common, low environmental impact reagents
- The technology developed has a very low maximum fresh water consumption of <20 l/s, which is low by industry standards.

Sales de Jujuy S.A. is also committed to the ten principles of the sustainable development framework as developed by The International Council on Mining and Metals. The company has an active and well-funded “Shared Value” program aimed at the long term development of the local people

Panoramic view showing ponds, liming plant and lithium carbonate plant



# Olaroz – Resource Estimate Summary

Combined Measured and Indicated Resource of 6.4 million tonnes of lithium carbonate, 19.3 million tonnes of potash (potassium chloride) and 1.85 million tonnes of boron

Resource Category	Area	Thickness	Mean specific yield	Brine volume	Concentration			Tonnes of Contained Metal		
					Lithium	Potassium	Boron	Lithium	Potassium	Boron
					mg/L	mg/L	mg/L	Million Tonnes	Million Tonnes	Million Tonnes
	sq. kms	metres	%	cubic kms	mg/L	mg/L	mg/L	Million Tonnes	Million Tonnes	Million Tonnes
Measured Resource	93	54	8.4%	0.42	632	4930	927	0.27	2.08	0.39
Indicated Resource	93	143	10.0%	1.33	708	6030	1100	0.94	8.02	1.46
<b>Measured and Indicated Resource</b>	<b>93</b>	<b>197</b>	<b>9.6%</b>	<b>1.75</b>	<b>690</b>	<b>5730</b>	<b>1050</b>	<b>1.21</b>	<b>10.10</b>	<b>1.85</b>

*The resource model and brine resource estimation on the Salar de Olaroz was undertaken by John Houston, an independent consultant employed by John Houston Consulting who is a Chartered Geologist and a Fellow of the Geological Society of London. John Houston has sufficient relevant experience to qualify as a competent person as defined in the 2004 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. He is also a “Qualified Person” as defined by Canadian Securities Administrators’ National Instrument 43-101. The information is extracted from the report entitled NI 43-101 Technical Report on the Olaroz Project, dated 13 May 2011 and is available to view on the Company website [www.orocobre.com](http://www.orocobre.com). The Company is not aware of any information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. 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.*

*This information was prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported.*

*The conversion rate used is 1 tonne of lithium metal produces 5.32 tonnes of lithium carbonate and 1 tonne of potassium produces 1.91 tonnes of muriate of potash.*

# Olaroz – Resource Estimate Summary – Exploration Target

Exploration target between 1.6 and 7.5 million tonnes of lithium carbonate equivalent between 197m and 323m depth. Basin potentially 600m deep and additional targets to the north and the south of the exploration target area. It must be stressed that an exploration target is not a mineral resource. The potential quantity and grade of the exploration target is conceptual in nature, and there has been insufficient exploration to define a Mineral Resource in the volume where the Exploration Target is outlined. It is uncertain if further exploration drilling will result in the determination of a Mineral Resource in this volume.

It is anticipated that additional drilling would be conducted post achievement of nameplate production run rate, to further evaluate the exploration target and to assist longer term development planning.

Table 1:

Area km <sup>2</sup>	Thickness m (to 323 m depth)	Mean specific yield %	Brine volume million m <sup>3</sup>	Li mg/l	Contained Li million metric tonnes	Lithium carbonate million metric tonnes	K mg/l	Contained K million metric tonnes	Potash million metric tonnes	B mg/l	Boron million metric tonnes
<b>UPPER ASSUMPTION ESTIMATE</b>											
80	126	20%	2,000	700	1.4	7.5	5400	10.9	20.8	1,200	2.4
<b>LOWER ASSUMPTION ESTIMATE</b>											
80	126	6%	605	500	0.3	1.6	4000	2.4	4.6	900	0.5

*The information in this table that relates to exploration target at the Olaroz project was prepared by Mr Murray Brooker, an independent consultant employed by Hydrominex Geoscience Pty Ltd. Murray Brooker is a geologist and hydrogeologist and is a Member of the Australian Institute of Geoscientists. Murray has sufficient relevant experience 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. He is also a “Qualified Person” as defined in NI 43-101. The information is extracted from the report entitled “Olaroz Project Large Exploration Target Defined”, dated 23 October 2014 and is available to view on the Company website [www.orocobre.com](http://www.orocobre.com).*

*The Company is not aware of any information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. 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.*

# Salar de Cauchari Resource Estimate Summary

An inferred resource has been estimated in two adjoining areas of the salar, with a total 230 million cubic metres of brine at 380 mg/L lithium and 3,700 mg/L potassium. This is equivalent to 470,000 tonnes of lithium carbonate and 1.6 million tonnes of potash (potassium chloride) based on 5.32 tonnes of lithium carbonate being equivalent to 1 tonne of lithium and 1.91 tonnes of potash being equivalent to one tonne of potassium.

Inferred Resource Area	Brine body parameters				Average resource concentrations			Tonnes contained		
	Area km <sup>2</sup>	Average thickness m	Mean specific yield %	Brine volume Million m <sup>3</sup>	Lithium mg/l	Potassium mg/l	Boron mg/l	Lithium	Potassium	Boron
North 170 m deep	19.69	170	6.1%	204.5	399	3,833	547	81,497	783,829	111,901
South 50 m deep	11.35	50	4.6%	26.0	264	2,502	421	6,851	64,932	10,916
Combined	31.04			230.4	383	3,683	533	88,348	848,761	122,817
LCE/potash Equivalent								470,009	1,621,134	

*The resource estimate was prepared by Murray Brooker, an independent consultant employed by Hydrominex Geoscience Pty Ltd. Murray Brooker is a geologist and hydrogeologist and is a Member of the Australian Institute of Geoscientists. Murray has sufficient relevant experience to qualify as a competent person as defined in the 2004 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. He is also a "Qualified Person" as defined by Canadian Securities Administrators' National Instrument 43-101. The information is extracted from the report entitled NI 43-101 Technical Report on the Salinas Grandes Project, dated 30 April 2010 and is available to view on the Company website [www.orocobre.com](http://www.orocobre.com).*

*The Company is not aware of any information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. 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.*

*This information was prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported.*

# Porvenir Resource Estimate Summary

A measured and indicated resource of 2.3 million tonnes at 20.4% B<sub>2</sub>O<sub>3</sub> is estimated at the current 16% mining cut off grade. The resource extends to a maximum depth of 2.9m and is easily exploited by low cost strip mining. A measured and indicated resource of 6.9 million tonnes of 14.9% B<sub>2</sub>O<sub>3</sub> is estimated at a 9% B<sub>2</sub>O<sub>3</sub> mining cut off grade.

Classification	Cut-off grade	Tonnes	Grade% B <sub>2</sub> O <sub>3</sub>	Tonnes B <sub>2</sub> O <sub>3</sub>
Measured	9%	4,907,877	14.5	710,672
Indicated	9%	1,942,433	16.0	310,517
<b>Measured &amp; Indicated</b>	<b>9%</b>	<b>6,850,000</b>	<b>14.9</b>	<b>1,020,000</b>
Classification	Cut-off grade	Tonnes	Grade% B <sub>2</sub> O <sub>3</sub>	Tonnes B <sub>2</sub> O <sub>3</sub>
Measured	16%	1,474,341	20.0	295,117
Indicated	16%	804,595	21.0	168,776
<b>Measured &amp; Indicated*</b>	<b>16%</b>	<b>2,278,937</b>	<b>20.4</b>	<b>463,992</b>

*The resource estimate was prepared by Murray Brooker, an independent consultant employed by Hydrominex Geoscience Pty Ltd. Murray Brooker is a geologist and hydrogeologist and is a Member of the Australian Institute of Geoscientists. Murray has sufficient relevant experience 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. He is also a "Qualified Person" as defined by Canadian Securities Administrators' National Instrument 43-101. The information is extracted from the report entitled Amended Announcement to Porvenir Historical Estimate Upgraded to JORC Compliant Resource, 29 April, 2014 and is available to view on the Company website [www.orocobre.com](http://www.orocobre.com).*

*The Company is not aware of any information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. 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. A previous announcement was made on the 21/08/12 regarding the superseded historical resource at Porvenir, which is the subject of re-estimation. The company is not in possession of any new information or data relating to historical estimates that materially impacts on the reliability of the estimates or the company's ability to verify the historical estimates as mineral resources, in accordance with the JORC Code. The supporting information provided in the initial market announcement of 21/08/12 continues to apply and has not materially changed.*

# Tincalayu Resource Estimate Summary

An Indicated and Inferred resource of 6.5 million tonnes at 13.9% B<sub>2</sub>O<sub>3</sub> at the a marginal cut-off of 5.6% B<sub>2</sub>O<sub>3</sub>, which increases to 17.8 million tons of 11.0 % B<sub>2</sub>O<sub>3</sub>, at a marginal cut-off grade of 2.8 % B<sub>2</sub>O<sub>3</sub>.

	Current production 30 Ktpa			Expanded Production 100 Ktpa		
	Cut-off	Tonnes (Mt)	Soluble B2O3 (%)	Cut-off	Tonnes (Mt)	Soluble B2O3 (%)
<b>Global Resource (not limited to a pit shell) - with Marginal Cut-off</b>						
Indicated	5.6	6.9	13.9	2.8	6.9	13.8
Inferred	5.6	9.9	10.2	2.8	13.8	8.5
Indicated + Inferred	5.6	16.8	11.7	2.8	20.7	10.3
<b>Maximum DCF In-pit Resource - with Marginal Cut-off</b>						
Indicated	5.6	5.1	14.7	2.8	6.8	13.8
Inferred	5.6	1.4	11.0	2.8	11.0	9.3
Indicated + Inferred	<b>5.6</b>	<b>6.5</b>	<b>13.9</b>	<b>2.8</b>	<b>17.8</b>	<b>11.0</b>

*The resource estimate was prepared by Murray Brooker, an independent consultant employed by Hydrominex Geoscience Pty Ltd. Murray Brooker is a geologist and hydrogeologist and is a Member of the Australian Institute of Geoscientists. Murray has sufficient relevant experience 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. He is also a "Qualified Person" as defined by Canadian Securities Administrators' National Instrument 43-101. The information is extracted from the report entitled Tincalayu Historical Estimate Upgraded to JORC Compliant Resource, 18 November 2014 and is available to view on the Company website [www.orocobre.com](http://www.orocobre.com).*

*The Company is not aware of any information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. 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. A previous announcement was made on the 21/08/12 regarding the superseded historical resource at Tincalayu, which is the subject of re-estimation. The company is not in possession of any new information or data relating to historical estimates that materially impacts on the reliability of the estimates or the company's ability to verify the historical estimates as mineral resources, in accordance with the JORC Code. The supporting information provided in the initial market announcement of 21/08/12 continues to apply and has not materially changed.*

# Historical Borax Argentina Resources

Mine/Project	Material	Historical Estimate	Tonnes	Grade% B2O3	Tonnes B2O3
<b>Current Soft Rock mines</b>					
<b>Sijes - Hydroboracite</b>	Hydroboracite	Measured	<b>3,099,998</b>	<b>22.8</b>	<b>706,800</b>
<b>Sijes – Colemanite</b>	Colemanite	Inferred	<b>200,000</b>	<b>20.0</b>	<b>40,000</b>
<b>Total &amp; average</b>			<b>3,299,998</b>	<b>22.6</b>	<b>746,800</b>
<b>Undeveloped Ulexite Deposits in Salt Lake Sediments</b>					
<b>Ratones</b>	Ulexite	Indicated	<b>364,663</b>	<b>18.0</b>	<b>65,639</b>

The historical estimate at Diablillos is not being re-stated as the raised phreatic surface caused by 3rd party drilling may affect the ability to mine some of this mineralisation.

Footnotes: The historical estimates are in equivalent categories to those used by the JORC and CIM reporting codes. However, these estimates did not satisfy either current JORC or CIM/NI 43-101 requirements for the reporting of resources and were considered to be historical resources (see Orocobre ASX/TSX announcement August, 2012).

**A qualified person did not do sufficient work to classify the historical estimates as current mineral resources or mineral reserves, and the Company did not treat the historical estimates as current mineral resources or mineral reserves. It is uncertain whether following evaluation and/or further exploration any of the historical estimates will ever be able to be reported as current estimates in accordance with the JORC code or NI 43-101.**

There is no new information that impacts on these historical estimates. Note that material mined in 2012-2014 is not accounted for as depletion in the figures above, with approximately 35,000 tonnes at Sijes the estimated annual production of mineralised material at the time this information was originally released in 2012.

**Relevant reports from which the above summary of historical estimates is drawn include the following:**

**Sijes:**

- July 1998; Borax Argentina S.A.; Environmental and Operational Studies, Phase 1, Initial Geotechnical Appraisal; Knight Piesold Limited, England. Includes a Historical estimates Chapter;
- July 1998; Borax Argentina S.A.; Environmental and operational Studies, Phase 2; Geotechnical Appraisal; Knight Piesold Limited, England;
- May 1999; Borax Argentina S.A.; Hydroboracite Project, Raul Gutierrez Solis; August 1999, Borax Argentina S.A.; Sijes, Monte Amarillo 2 Mine. Historical Estimation, Mine Design & Planning Report. Knight Piesold Limited, England.

**Ratones:**

The project was acquired by Borax Argentina circa 1987. The previous owners had conducted an estimate of contained mineralised material. This has not been validated by Borax Argentina, who consider the status of this material to be of the indicated category.

# Competent Person's and Qualified Person's Statement & Technical Information

The resource estimation of the Salar de Olaroz stated in this report was undertaken by John Houston an independent consultant employed by John Houston Consulting who is a Chartered Geologist and a Fellow of the Geological Society of London. John Houston has sufficient relevant experience to qualify as a competent person as defined in the 2004 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. He is also a "Qualified Person" as defined by Canadian Securities Administrators' National Instrument 43-101("NI 43-101").

The Feasibility Study on the Olaroz project was prepared by Mr. Houston (Consulting Processing Engineer) employed by John Houston Consulting and Peter Ehren (Consulting Processing Engineer) employed by Ehren-González Ltda Process and Environmental Consultancy, together with Sinclair Knight Merz and the Orocobre technical group. Mr. Houston and Mr. Gunn employed by Gunn Metals Pty Ltd prepared the technical report entitled "Technical Report – Salar de Olaroz Lithium-Potash Project, Argentina" dated May 30, 2011 (the "Olaroz Report") under NI 43-101 in respect of the Feasibility Study, and each of Messrs, Houston and Gunn was a Qualified Person under NI 43-101, and independent of the company, at the date such report was prepared. Mr Peter Ehren is a Member of the Australasian Institute of Mining and Metallurgy and Chartered Professional and is a consulting mineral processing engineer with significant experience in lithium brine deposits. Mr Gunn is a Member of the Australian Insitute of Mining and Metallurgy and is consulting mineral processing engineer with approximately forty years experience.

The technical information relating to Salinas Grandes and Cauchari has been prepared by Murray Brooker in conjunction with Mr Peter Ehren regarding Salinas Grandes. Murray Brooker is a geologist and hydrogeologist and is a Member of the Australian Institute of Geoscientists. Murray has sufficient relevant experience to qualify as a competent person as defined in the 2004 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. He is also a "Qualified Person" as defined in NI 43-101. Mr Peter Ehren is a Member of the Australasian Institute of Mining and Metallurgy and Chartered Professional and is a consulting mineral processing engineer with significant experience in lithium brine deposits. He has acted as a consultant on the company's Olaroz and Cauchari lithium projects as well as consulting extensively for other clients. Mr Ehren is responsible for the mineral processing and metallurgical testing statements in section 15 of the Technical Report on the Salinas Grandes Lithium Project effective April 16th 2012. This report was reviewed and updated to include a statement of Peter Ehren's responsibilities on August 12th 2013 as a result of a review by the Ontario Securities Commission and refiled on www.sedar.com with an accompanying media release over the Canadian disclosure network on August 23rd 2013. Mr Ehren is also a "Qualified Person" as defined in NI43-101.

The information in this report that relates to mineralisation at Borax Argentina sites has been prepared by Mr Murray Brooker. Murray Brooker an independent consultant employed by Hydrominex Geoscience Pty Ltd. Murray Brooker is a geologist and hydrogeologist and is a Member of the Australian Institute of Geoscientists. The other information in this report relating to the boric acid plant pre-feasibility study has been approved by Mr. Peter Ehren. Peter Ehren, was an independent consultant to Orocobre at the date of the announcement. Each of Mr. Brooker and Mr. Ehren has sufficient relevant experience 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 and as a "Qualified Person" as defined in NI 43-101. The information is extracted from the report entitled "Olaroz Project Large Exploration Target Defined", dated 23 October 2014.

The technical information relating to Salinas Grandes and Cauchari has been prepared by Murray Brooker, who was an independent consultant employed by Hydrominex Geoscience Pty Ltd, in conjunction with Mr Peter Ehren who was an independent consultant employed by Ehren-González Ltda Process and Environmental Consultancy. Mr Ehren is responsible for the mineral processing and metallurgical testing statements in section 15 of the Technical Report on the Salinas Grandes Lithium Project effective April 16th 2012. This report was reviewed and updated to include a statement of Peter Ehren's responsibilities on August 12th 2013 as a result of a review by the Ontario Securities Commission and refiled on www.sedar.com with an accompanying media release over the Canadian disclosure network on August 23rd 2013. Mr Ehren is also a "Qualified Person" as defined in NI43-101.

# Competent Person's and Qualified Person's Statement & Technical Information

The Company confirms that it is not aware of any new information or data that materially affects the information included in the references above and that all material assumptions and technical parameters underpinning the resource estimates continue to apply and have not materially changed. The Company also confirms that the form and context in which the Competent Person's findings are presented have not been materially modified. The Company also confirms that the form and context in which the Competent Person's findings are presented have not been materially modified.

A previous announcement was made on the 21/08/12 regarding the superseded historical resources at Porvenir and Tincalayu. The company is not in possession of any new information or data relating to historical estimates that materially impacts on the reliability of the estimates or the company's ability to verify the historical estimates as mineral resources, in accordance with the JORC Code. The supporting information provided in the initial market announcement of 21/08/12 continues to apply and has not materially changed.

Additional information relating to the Company's projects is available in the Olaroz Report; the "Technical Report – Salar de Cauchari Project, Argentina" dated April 30, 2010, which was prepared by John Houston, Consulting Hydrogeologist; and the "Technical Report on the Salinas Grandes Lithium Project" dated April 16, 2012, which was prepared by Mr. Brooker. These are available on SEDAR.com or the Company's website.

Additional information relating to the Company's projects is available on the Company's website: [www.orocobre.com](http://www.orocobre.com)



# Orocobre Limited

**Investor Update**  
**January 2016**