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The information in this report that relates to Exploration Results is based on information compiled by Bernard Rowe, a Competent Person who is a Member of the Australian Institute of Geoscientists. Bernard Rowe is a shareholder, employee and Managing Director of Global Geoscience Ltd. Mr Rowe has 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 ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves’. Bernard Rowe 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**

- **Strategic Asset**
  - Large, rare lithium-boron deposit
  - Strategically located in Nevada, USA
  - Resource\(^1\) containing 3.4 million tonnes of lithium carbonate and 11.3 million tonnes of boric acid
  - Large, shallow and scalable
  - Option for 100% ownership interest

- **High Grade Zone**
  - 65Mt at 1.0% Li\(_2\)CO\(_3\) and 9.1% H\(_3\)BO\(_3\)
  - 650kt lithium carbonate and 5.9Mt boric acid
  - Sufficient to support 3Mtpa operation over 20 years
  - 20m thick, shallow and open in three directions

- **Potential For**
  - Low-cost open-pit mining methods
  - Low-cost, simple process route to produce lithium carbonate and boric acid on site
  - Favourable economics compared to other sources of lithium
  - Major, low-cost supplier for Li and B
  - High demand growth rates predicted for Li and B

---

1. Refer to public report dated 10/10/2016 for further information regarding the Mineral Resource estimate.
## Corporate Overview

### Capital Structure

<table>
<thead>
<tr>
<th>Capital Structure</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Shares</td>
<td>1068M</td>
</tr>
<tr>
<td>Options (unlisted)</td>
<td>35M</td>
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<tr>
<td>Performance Rights (unlisted)</td>
<td>51M</td>
</tr>
<tr>
<td>Cash</td>
<td>$4M</td>
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<tr>
<td>Share Price</td>
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<tr>
<td>Market Cap.</td>
<td>$150M</td>
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### Directors

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bernard Rowe</td>
<td>Managing Director</td>
</tr>
<tr>
<td>Patrick Elliott</td>
<td>Non-Exec. Director</td>
</tr>
<tr>
<td>Gabriel Chiappini</td>
<td>Non-Exec. Director</td>
</tr>
<tr>
<td>Barnaby Egerton-Warburton</td>
<td>Non-Exec. Director</td>
</tr>
</tbody>
</table>

### Major Shareholders

<table>
<thead>
<tr>
<th>Shareholders</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top 20</td>
<td>60%</td>
</tr>
<tr>
<td>Directors</td>
<td>7%</td>
</tr>
</tbody>
</table>

Source: ASX
Technical Team

Bernard Rowe
- Qualified geologist with over 25 years international experience in mineral exploration and management
- Extensive exploration experience working in Nevada, Australia, West Africa and Scandinavia
- Founding shareholder of Global Geoscience and Managing Director since listing the company on the ASX in December 2007
- Actively involved in exploration in Nevada since 2003 and has extensive contacts within the region

Peter Nicholson
- Qualified geologist with over 30 years experience in mining and exploration within Australia and overseas
- Played an integral role in the development of Savage Resources exploration projects in North and South America in the 1990s
- Involved in discovery and/or resource increases at multiple deposits in Australia and Peru
- Founding shareholder of Global Geoscience and has been involved in Nevada exploration since 2003

Peter Ehren
- Extensive experience in process development and optimization for lithium, boron and potassium
- Worked on numerous lithium projects around the world
- Designed and developed the process in use at SQM’s Salar de Atacama project in Chile and Orocobre’s Olaroz project in Argentina
- Brine expertise will prove very valuable in the backend processing where lithium, boron and potassium will be extracted from the solution (brine) produced from leaching of the Rhyolite Ridge mineralisation

Silvio Bertolli
- Chemical engineer with over 40 years of experience in process design and technology development in the chemicals and metallurgical industries for rare and base metals with emphasis during the last decade on lithium clay deposits
- Successfully developed processes to extract lithium from clays, including pilot plant design and operation, engineering studies, cost estimating and economic analyses at the Kings Valley lithium-clay deposit in Nevada
Global Market – Lithium & Boron

- **Current Supply**
  - Four companies currently produce 85% of world supply
  - Nearly 60% of world’s identified Li resources are in Bolivia, Chile and Argentina
  - Only one mine in production in the USA

- **Rapid Growth in Demand Predicted**
  - Driven by Electric Vehicles and Energy Storage
  - Demand forecast to increase 70% by 2020 and 190% by 2025
  - Lithium-ion battery market predicted to quadruple by 2020

- **Uses of Boron, Borates, Boric Acid**
  - Energy – insulation, solar, wind turbines (magnets)
  - Urbanisation – glass, ceramics, electronics
  - Agriculture – critical element for crop yields

- **Supply and Demand**
  - Rio Tinto (USA) and Eti Maden AS (Turkey) dominate supply
  - Only one major mine in production in the USA (Boron, CA)
  - China and USA largest consumers
  - Consumer driven growth with urbanisation and expanding middle class, 4-5% CAGR predicted
Global Lithium Supply and Demand

Figure 3: Revised lithium supply / demand forecasts

Source: Canaccord Genuity, October 2016
Global Boron Supply and Demand

Global borates demand
Cumulative kmt B₂O₃ equivalent

2013-25 CAGR %

- 5-6
- 3-4
- 4-5

Urbanization
Energy Efficiency
Agriculture

Global refined borates share of sales
April 2013 – March 2014, B₂O₃ tons

Source: Rio Tinto Minerals, 2014

Exports

Imports

Global exports and imports of boric acid, 2015
Source: UN Comtrade Database
# A Potential Third Source of Lithium

<table>
<thead>
<tr>
<th>End Product</th>
<th>Lithium Carbonate (Li$_2$CO$_3$)</th>
<th>Lithium Carbonate (Li$_2$CO$_3$)</th>
<th>Spodumene Concentrate (6% Li$_2$O)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Value of End Product Long Term Price (US$/t)</td>
<td>7000</td>
<td>7000</td>
<td>500</td>
</tr>
<tr>
<td>Typical Grade</td>
<td>500-1000ppm Li (0.1-0.2% Li$_2$O)</td>
<td>1800-3000ppm Li (0.4-0.6% Li$_2$O)</td>
<td>4500-7000ppm Li 1.0 – 1.5% Li$_2$O</td>
</tr>
<tr>
<td>Estimated Cash Costs ($pt Li$_2$CO$_3$)</td>
<td>2000-3000</td>
<td>GSC Target 2000-3000</td>
<td>5000-6000+</td>
</tr>
<tr>
<td>Basic Steps to Produce Lithium Carbonate</td>
<td>Pumping Evaporation Crystallization and Precipitation</td>
<td>Mining Crushing and Grinding Concentration Acid leaching Crystallization and Precipitation</td>
<td>Mining Crushing and Grinding Concentration Shipping Roasting Acidification</td>
</tr>
<tr>
<td>Is Roasting Required?</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Comparison of Advanced-Stage Lithium Projects

Market Capitalisation per Tonne Li$_2$CO$_3$

- **PFS**
  - Global Geoscience (ASX:GSC)
  - Pilbara Mines (ASX:PLS)
- **DFS**
  - Altura Mining (ASX:AJM)
  - Orocobre (ASX:ORE)
- **Production**
  - Galaxy Resources (ASX:GKY)
  - Neometals Limited (ASX:NMT)

Legend:
- **Sediment**
- **Pegmatite**
- **Brine**
GSC is investigating low-cost acid leaching to process its Li-B Searlesite mineralisation with the aim of being in the lower quartile of the cost curve.
Searlesite Lithium-Boron Mineralisation

- Lithium-boron mineralisation associated with the mineral searlesite
- Shallow, competent rock amenable to open pit mining
- Upgradable through crushing, grinding and flotation
- Leachable with dilute sulphuric acid to recover lithium and boron

High-grade searlesite Li-B mineralisation in outcrop

High-grade searlesite Li-B mineralisation in drill core
Project Overview & History

- Large Property, Simple Ownership
  - 29km², Exclusive option for 100% interest
- Deposit Type
  - Sediment hosted (stratiform) lithium-boron deposit
  - Main ore mineral is searlesite, a sodium boro-silicate mineral
- North Basin (20km²)
  - Explored for boron in 1980’s by US Borax
  - 37 rotary/percussion drill holes
  - 100-260m thick intersections in 9 holes drilled over an area of 5 square kilometres
  - Reportedly 2nd largest boron deposit in USA at the time
- South Basin (9km²)
  - Explored for lithium in 2010-2011 by JOGMEC
  - 15 RC and 21 diamond drill holes

1. Refer to public report dated 10/10/2016 for further information regarding the Mineral Resource estimate.
South Basin Maiden Resource

- **Maiden Mineral Resource**
  - 393 million tonnes at 0.9% lithium carbonate, 2.9% boric acid, 1.7% potassium sulphate (0.6% LCE cut-off)
  - 1.2% Lithium Carbonate Equivalent (LCE)
  - 3.4 million tonnes of lithium carbonate
  - 11.4 million tonnes Boric Acid

- **High-Grade Zone**
  - 65 million tonnes at 1.0% lithium carbonate, 9.1% boric acid, 2.2% potassium sulphate (1.8% LCE cut-off)
  - 2.0% Lithium Carbonate Equivalent (LCE)
  - 650k tonnes of lithium carbonate (Li₂CO₃)
  - 5.9 million tonnes Boric Acid (H₃BO₃)
  - Excellent potential to expand the Resource

1. Refer to public report dated 10/10/2016 for further information regarding the Mineral Resource estimate.
South Basin Cross-Section  4185600N

Indicated & Inferred Resource
Upper Lens – Searlesite Zone 63Mt at 1% Li₂CO₃, 9.1% H₃BO₃ (1.8% LCE cut-off)
Lower Lens – Searlesite Zone 17Mt at 0.7% Li₂CO₃, 7.0% H₃BO₃ (0.6% LCE cut-off)

Further information regarding the Resource estimate can be found in the public report titled "Maiden Resource for South Basin at Nevada Lithium-Boron Project" dated 10/10/2016
Metallurgical Test Work

• Metallurgical Mapping of Deposit
  o Identify metallurgical characteristics of different types of mineralisation

• Optimum Upgrading Conditions
  o Upgrading and beneficiation to reduce mass, reduce carbonate content and concentrate Li, B and K
  o Preliminary observations support a relatively simple process route involving crushing, screening and flotation

• Optimum Leaching Conditions
  o Performed on upgraded/concentrated feed
  o Time, temperature, acid strength and consumption
  o Preliminary results show high recovery using dilute sulphuric acid
Milestones & Upcoming Catalysts

**Milestones**

- **US Borax (Rio Tinto)**
  - 37 holes at North Basin

- **JOGMEC**
  - 15 RC and 21 diamond holes in the south basin

- **June**
  - GSC optioned the project

- **October**
  - GSC completed maiden JORC resource estimate on the south basin using historical data

- **November**
  - GSC commenced metallurgical testwork

- **January**
  - GSC completed 1,500-metre drilling program

**Upcoming Catalysts**

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<th>01</th>
<th>02</th>
<th>03</th>
<th>04</th>
<th>05</th>
<th>06</th>
<th>07</th>
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<td>Drill Results</td>
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<tr>
<td>Commence BFS</td>
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</tbody>
</table>
Summary

- **Strategic Asset**
  - Large and rare lithium-boron deposit
  - Located in Nevada, USA

- **Advanced-Stage Project**
  - Maiden Resource completed
  - PFS scheduled for completion in late 2017
  - Opportunity to move quickly into development

- **Significant Potential**
  - Strategic, long-life, low-cost source of lithium and boron
  - Potential supplier to the rising global demand for lithium carbonate and boric acid
  - High demand growth predicted
## Mineral Resource Estimate

### Table 1 – Rhyolite Ridge, October 2016 Mineral Resource Estimate – by Classification (0.6% LCE Cut-off)

<table>
<thead>
<tr>
<th>Classification</th>
<th>Tonnage Mt</th>
<th>Li ppm</th>
<th>Li₂CO₃ %</th>
<th>B %</th>
<th>H₃BO₃ %</th>
<th>K₂SO₄ %</th>
<th>Cont. LCE kt</th>
<th>Cont. LC kt</th>
<th>Cont. Boric kt</th>
<th>Cont. Pot kt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measured</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Indicated</td>
<td>160.9</td>
<td>1,550</td>
<td>0.8</td>
<td>0.58</td>
<td>3.3</td>
<td>1.7</td>
<td>1,980</td>
<td>1,330</td>
<td>5,330</td>
<td>2,710</td>
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<tr>
<td>Inferred</td>
<td>232.4</td>
<td>1,700</td>
<td>0.9</td>
<td>0.45</td>
<td>2.6</td>
<td>1.7</td>
<td>2,870</td>
<td>2,100</td>
<td>6,020</td>
<td>4,030</td>
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<tr>
<td>Total</td>
<td>393.3</td>
<td>1,640</td>
<td>0.9</td>
<td>0.51</td>
<td>2.9</td>
<td>1.7</td>
<td>4,850</td>
<td>3,430</td>
<td>11,340</td>
<td>6,740</td>
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</tbody>
</table>

### Table 2 – Rhyolite Ridge October 2016 Mineral Resource Estimate – by Classification (1.8% LCE Cut-off)

<table>
<thead>
<tr>
<th>Class</th>
<th>Tonnage Mt</th>
<th>Li ppm</th>
<th>Li₂CO₃ %</th>
<th>B %</th>
<th>H₃BO₃ %</th>
<th>K₂SO₄ %</th>
<th>Cont. LCE kt</th>
<th>Cont. LC kt</th>
<th>Cont. Boric kt</th>
<th>Cont. Pot kt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measured</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indicated</td>
<td>24.3</td>
<td>1,820</td>
<td>1.0</td>
<td>1.64</td>
<td>9.4</td>
<td>2.0</td>
<td>480</td>
<td>240</td>
<td>2,280</td>
<td>500</td>
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<tr>
<td>Inferred</td>
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<td>1,960</td>
<td>1.0</td>
<td>1.57</td>
<td>9.0</td>
<td>2.3</td>
<td>820</td>
<td>420</td>
<td>3,620</td>
<td>920</td>
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<tr>
<td>Total</td>
<td>64.6</td>
<td>1,910</td>
<td>1.0</td>
<td>1.59</td>
<td>9.1</td>
<td>2.2</td>
<td>1,300</td>
<td>650</td>
<td>5,900</td>
<td>1,420</td>
</tr>
</tbody>
</table>
Mineral Resource Estimate - Notes

1. Totals may differ due to rounding, Mineral Resources reported on a dry in-situ basis.

2. The Statement of Estimates of Mineral Resources has been compiled by Mr. Robert Dennis who is a full-time employee of RPM and a Member of the AIG and AusIMM. Mr. Dennis has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that he has undertaken to qualify as a Competent Person as defined in the JORC Code (2012).

3. All Mineral Resources figures reported in the table above represent estimates at 10th October, 2016. Mineral Resource estimates are not precise calculations, being dependent on the interpretation of limited information on the location, shape and continuity of the occurrence and on the available sampling results. The totals contained in the above table have been rounded to reflect the relative uncertainty of the estimate. Rounding may cause some computational discrepancies.

4. Mineral Resources are reported in accordance with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (The Joint Ore Reserves Committee Code – JORC 2012 Edition).

5. Lithium carbonate equivalent (LCE) calculated using a lithium carbonate (Li₂CO₃) price of US$8,000/t, a boric acid (H₃BO₃) price of US$800/t and a potassium sulphate (K₂SO₄) price of US$600/t. Metallurgical recoveries of 90% are assumed for Li₂CO₃ and H₃BO₃ and 50% is assumed for K₂SO₄. No adjustment has been made for net smelter return as it remains uncertain at this time. Based on grades and contained Li₂CO₃, H₃BO₃ and K₂SO₄, it is assumed that all commodities have reasonable potential to be economically extractable. Prices, costs and recoveries were obtained from a high level technical report supplied by independent processing consultants to Global Geoscience.

   a) The formula used for lithium carbonate equivalent (LCE) is:
   \[\text{LCE} = \text{Li}_2\text{CO}_3\ _\text{pct} + \left(\left(\text{H}_3\text{BO}_3\ _\text{pct} \times 800 \times 0.9\right) + \left(\text{K}_2\text{SO}_4\ _\text{pct} \times 600 \times 0.5\right)\right) / \left(8,000 \times 0.9\right)\]

6. Reporting cut-off grade selected based on an RPM cut-off calculator assuming an open pit mining method, a US$8,000/t Li₂CO₃ price, a 90% metallurgical recovery for Li₂CO₃ and costs derived from a high level technical report supplied by independent processing consultants to Global Geoscience.
Lithium Companies with Resources

Selected listed companies with advanced lithium projects

<table>
<thead>
<tr>
<th>Company</th>
<th>Ticker</th>
<th>Type</th>
<th>Stage</th>
<th>Resource $\text{Mt \text{Li}_2\text{CO}_3}$</th>
<th>Market Cap $\text{A$M}$ (as at 27/03/17)</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Altura Mining</td>
<td>ASX.AJM</td>
<td>Pegmatite</td>
<td>DFS</td>
<td>0.9</td>
<td>250</td>
<td>Australia</td>
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<tr>
<td>Galaxy Resources</td>
<td>ASX.GXY</td>
<td>Pegmatite Brine Producer</td>
<td>1.1 1.1</td>
<td>980</td>
<td></td>
<td>Australia Argentina</td>
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<tr>
<td>Nemaska Lithium</td>
<td>TSX.NMX</td>
<td>Pegmatite</td>
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<td>1.3</td>
<td>410</td>
<td>Canada</td>
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<tr>
<td>Global Geoscience</td>
<td>ASX.GSC</td>
<td>Sediment</td>
<td>Resource</td>
<td>3.4 (4.8 incl. credits)</td>
<td>150</td>
<td>USA</td>
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<td>Pilbara Mines</td>
<td>ASX.PLS</td>
<td>Pegmatite</td>
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<td>3.9</td>
<td>580</td>
<td>Australia</td>
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<td>Kidman Resources</td>
<td>ASX.KDR</td>
<td>Pegmatite</td>
<td>Resource</td>
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<td>Orocobre</td>
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<td>Brine</td>
<td>Producer</td>
<td>6.4</td>
<td>600</td>
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<td>Argentina</td>
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</table>
Thank you.