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CORPORATE RELEASE

## Alluminous reaches Operational Milestone and Makes Initial HPA Shipment to C4V

Impact Minerals Limited (ASX: IPT) (“Impact” or “the Company”) is pleased to provide an update on the progress of its 50%-owned associated company, Alluminous Pty Ltd (“Alluminous”), and the ongoing Technology Development Agreement with U.S. battery materials innovator Charge CCCV LLC (C4V) (ASX Release December 19<sup>th</sup> 2025 and April 23<sup>rd</sup> 2025).

Alluminous has now successfully prepared and shipped approximately 15 kg of HiPurA® High Purity Alumina (HPA) samples to C4V in the United States for initial testwork under the agreed program. This shipment marks the first significant quantities of HPA to be produced and dispatched from the Alluminous pilot plant, just 9 months after Impact’s investment in the technology. The material is being sent for formal testing within C4V’s established laboratory and pilot-scale facilities, advancing Alluminous’s product qualification process towards downstream battery markets.



Bags of HPA proudly held by the Alluminous Technical Team.

The partnership with C4V continues to focus on testing, engineering, and validation efforts aimed at turning HiPurA® HPA into a material that can be directly used in lithium-ion battery manufacturing. C4V’s testing facilities are expected to produce independent performance data to support product approval and further customer engagement.

Alluminous Managing Director David Leavy recently met with the C4V technical team in New York. These meetings further aligned the scope and sequence of the testwork programme and highlighted the potential benefits of C4V's access to advanced battery development infrastructure and integration within the broader U.S. battery technology ecosystem.

Notably, C4V is located at the Centre of Excellence at Binghamton University in New York State, which is a global hub for lithium-ion research driven partly by Distinguished Professor M. Stanley Whittingham, widely regarded as one of the "founding fathers" of lithium-ion batteries.

While working at Exxon in the 1970s, Professor Whittingham developed the first rechargeable lithium-ion battery using a titanium disulphide cathode and a lithium-metal anode, and in 2019, he was awarded the Nobel Prize in Chemistry (alongside John B. Goodenough and Akira Yoshino) for his crucial role in developing the lithium-ion battery.

Professor Whittingham continues to lead research at Binghamton, focusing on enhancing the capacity, safety, and lifespan of energy storage batteries. The university is currently heading New Energy New York (NENY), a coalition dedicated to establishing a domestic battery manufacturing supply chain in upstate New York. It is also home to Battery NY, a federally funded research and development centre for sustainable battery technologies.

### **Pilot Plant Update**

The Alluminous pilot plant in Perth is now operating successfully in batch mode, producing HPA and precursor materials in accordance with internal quality specifications. With a solid understanding of process management now established, the ongoing priority is consistent, repeatable quality at larger scale.

A key performance indicator for the next quarter is to achieve continuous mode operation, which will support sustained sample production and more robust qualification activities with C4V and potential customers. Initial assessment indicates the existing facility may be capable of substantial increases in throughput compared with the original design, and further work is in progress to quantify this and the associated capital requirements.

### **Management Update**

Alluminous has also appointed Peter Barnes as Chief Operating Officer. Peter is a Chemical Engineer with an MBA from UWA and extensive experience in scaling up operations from pilot plant through feasibility and commercialisation. He will oversee ongoing pilot plant optimisation, manage the scoping study process, and plan the execution of project scale-up. Peter joins Dr Nicholas Welham and Camila Lizarazo in driving Alluminous' development strategy.

### **Market Engagement and U.S. Activities**

Alluminous has continued market engagement, with particular focus on the United States. Managing Director David Leavy recently undertook meetings with investors, strategic advisors and industry participants in New York, Washington DC and San Francisco. These meetings, supported by Amvest Capital, a related shareholder in Alluminous, provided opportunities to present Alluminous' commercialisation pathway and discuss the role of high-purity alumina across battery, AI, data centre, defence, semiconductor, optics and photonics markets.

Attendance at SPIE Photonics West in January in San Francisco allowed engagement with customers, technology partners and suppliers, offering additional insight into downstream applications for high-purity alumina and informing product development, qualification priorities, and commercial planning.

Impact Minerals Managing Director, Dr. Mike Jones, said, *“To see this amount of HPA produced after less than three years in the HPA business is a very exciting development for Impact. We are very encouraged by the progress Alluminous has made with the C4V collaboration, highlighted by this shipment of 15 kg of HiPurA® HPA for testwork. This tangible milestone demonstrates execution capability and moves us closer to product qualification in technically demanding battery markets.*

*Operating the Perth pilot plant in batch mode and planning the shift to continuous operation are key priorities for the upcoming months. Early signs suggest the facility could achieve higher throughput; if confirmed, this would greatly improve the scalability and capital efficiency of Alluminous’ development process.*

*C4V’s technical expertise and infrastructure support will provide valuable independent validation of the material. The extended engagement David Leavy has undertaken in the U.S. continues to enhance our understanding of customer and supply chain needs in key global markets.*

Alluminous Managing Director, David Leavy, said, *“The dispatch of our first HPA samples to C4V is a proud moment for the team and a crucial step in turning pilot-scale production into qualification data that matters to OEMs. Meeting with the C4V technical team in New York helped align expectations and sequencing of the testwork programme, and we look forward to integrating performance feedback as it comes in.*

*With Peter Barnes joining as COO, we have enhanced our operational leadership and capacity to optimise and scale our processes. Our ongoing market engagement in the U.S. has been invaluable in shaping how we prioritise product development and qualification pathways for high-purity alumina across multiple advanced end-markets.*

## Next Steps

Alluminous will continue to optimise the pilot plant's performance and transition to continuous operation, as well as assess the throughput potential. Feedback from C4V performance data will be used to guide product development.

Impact will continue to develop the Lake Hope project and evaluate ways to incorporate natural feedstock with HiPurA® downstream processing.

Authorised by the Board of Impact Minerals Limited.

**Dr Michael G Jones**

Managing Director

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