ASX Announcement

19 September 2019

TECHNOLOGY TRIALS SEEK TO IMPROVE PLATINA SCANDIUM PROJECT METRICS.

Platina Resources Limited ("Platina" or the "Company") will seek to lower capital costs and enhance the revenue streams of its Platina Scandium Project near Condobolin in New South Wales by trialling two new technologies. The vat leaching trial will focus on leaching at atmospheric temperature and pressure where there is the potential to lower capital costs.

Small-scale vat leaching

Platina will assess the application of a small-scale vat leach technology used for nickel laterite ores to scandium processing in a bid to establish a smaller, lower cost project better aligned to the low volumes of the current scandium market. While conventional high-pressure acid leaching (HPAL) may recover more metal, the technology is more complex, larger scale and requires considerably more capital. Core Metallurgy in Brisbane has been engaged to conduct the trial.

High purity alumina recovery

The Company has previously demonstrated that it could extract high purity alumina from clarified leach solutions produced from the recovery of scandium in a HPAL plant. However, recoveries were low. An alternative process technology will now be trialled to investigate whether we can achieve better recoveries of the aluminium which will be converted into high purity alumina, which has a premium value, and is used to manufacture sapphire glass and lithium-ion-battery separators.

Platina Managing Director, Corey Nolan, said emerging technologies promised to make the most of the Company's scandium project.

"The aim of the trials is to ensure we develop a project that utilises all the high value metals available in the deposit," Mr Nolan said.

"Vat leaching is smaller scale and is expected to be a far lower cost and could provide scandium to the market for product development. In the future, as the scandium market gets larger, HPAL processing could then be implemented, and improved recoveries of scandium, nickel and cobalt as well as an alumina by-product will enhance revenue streams significantly and offset the higher capital costs of the technology," he said.

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For more information or photos:
Corey Nolan
Managing Director
Phone +61 (0)7 5580 9094
admin@platinaresources.com.au

Gareth Quinn
Corporate Affairs Manager
Mobile: 0417 711 108
gareth@republicpr.com.au

New frontiers
New growth

Level 2, Suite 9, 389 Oxford Street
Mt Hawthorn Western Australia 6016
Phone +61 (0)7 5580 9094
Email: admin@platinaresources.com.au
platinaresources.com.au

VAT LEACHING PROCESS

Vat leaching involves the placement of ore into large vats and irrigating it with an acidic solution which percolates through the bed of ore. The ore must first be agglomerated to ensure the bed is permeable. Valuable metals are slowly leached from the ore particles and drain from the bottom of the vat with the exiting liquor. While metal extraction is potentially lower than that achieved using HPAL, high pressures or temperatures are not required, simplifying equipment design and construction, which offers potential to lower capital costs significantly. The vats can be operated in series so that the fresh acid solution contacts partially leached ore from which the most soluble material has already been leached, and leach solution with depleted acidity contacts fresh ore that has greater neutralising capacity.

Tests will initially be undertaken to determine an effective agglomeration process. Following the agglomeration testwork, approximately 200 kg of ore will be agglomerated for vat leach testing. Vat leaching will be undertaken in 150 mm diameter x 2 m high columns over 30 days, and extraction of scandium and impurities will be monitored. The testwork program will evaluate the extent of scandium extraction and acid consumption efficiency, to establish whether the technology can support a small scale first stage commercial operation.

ABOUT PLATINA RESOURCES

Platina is an Australian-based company focused on returning shareholder value by advancing early-stage metals projects through exploration, feasibility, permitting and into development.

The Company has interests in the following projects:

- Platina Scandium Project (100% interest) - located in central New South Wales, the project is one of the largest and highest-grade scandium deposits in the world, which has the potential to become Australia's first scandium producer with cobalt and nickel credits. A Definitive Feasibility Study was completed in late 2018 demonstrating the technical and economic viability of constructing the project. The Company is now focused on completing the permitting and securing offtake and financing.
- Skaergaard (100% interest) - One of the world's largest undeveloped gold deposits and one of the largest palladium resources outside of South Africa and Russia, located in Greenland;
- Munni Munni (30% interest) - Situated in the Pilbara region of Western Australia, the project is one of Australia's most significant Platinum Group Metal occurrences. Munni Munni also has potential for conglomerate hosted gold and is a Joint Venture with Artemis Resources Limited; and
- Blue Moon (to earn a 70% interest) – Located in California, USA, the project is subject to a NI 43-101 Mineral Resource estimate. The resource is open at depth and along strike and has favourable metallurgy.

For more information please see: www.platinaresources.com.au

DISCLAIMER

Statements regarding Platina Resources' plans with respect to its mineral properties are forward-looking statements. There can be no assurance that Platina Resources' plans for development of its mineral properties will proceed as currently expected. There can also be no assurance that Platina Resources will be able to confirm the presence of additional mineral deposits, that any mineralisation will prove to be economic or that a mine will successfully be developed on any of Platina Resources' mineral properties or that Platina will achieve any of the valuation increases shown by the peer group zinc companies.