

# **ASX RELEASE**

#### ASX RELEASE

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**ASX CODE** 

PNN

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#### PROJECTS

**Argentina** Salta Lithium Project

Santa Ines Copper-Gold Project

**Australia** Eyre Peninsula Kaolin-Halloysite Project

Musgrave Nickel-Copper-Cobalt-PGE Project

# Drilling delivers highest average lithium grades and strong brine density at Incahuasi Salar

- Four-hole JORC Mineral Resource drilling program completed at Incahuasi salar at the Salta Lithium Project in Argentina
- Hole PM23-IN-04 intersects lithium-bearing brines in a 60m interval under the alluvial fan in the southern area of the salar
- PM23-IN-04 delivers the highest average lithium grade 214mg/L returned to date and a high average brine density of 1.21kg/L returned to date
- Drilling at Incahuasi returns consistent lithium grades at all four holes and confirms Mineral Resource potential
- Brine and drill core samples sent for laboratory analysis to confirm brine chemistry and density, drainable porosity and lithium grades
- JORC Mineral Resource to be confirmed at Incahuasi with drilling to commence at the Rincon salar and then the Pocitos salar
- Power's Mineral Resource drilling campaign is designed to deliver a substantial upgrade to the Salta Project's existing JORC Lithium Mineral Resource, and to support future development plans

Lithium exploration and development company Power Minerals Limited (ASX: PNN) (**Power** or **the Company**) is pleased to announce results from the final drill hole of its JORC Mineral Resource definition drilling program at the Incahuasi salar, at its Salta Lithium-Brine Project, in the Salta province in the lithium triangle of north-west Argentina (Figure 4).

Hole PM23-IN-04 was the final hole in a four-hole drilling program at the Incahuasi salar, and has delivered the highest average lithium grades in Power's Mineral Resource drilling to date, along with high brine density results.

Assay results from five packer brine samples taken from selected intervals in PM23-IN-04 returned consistent lithium grades (Figure 1),





of up to **221mg/L** (milligrams per litre) lithium (Li) with an average grade of **214mg/L** Li, along with excellent brine density, of up to **1.21kg/L** (kilograms per litre) (Table 1).

PM23-IN-04 was successfully completed to a depth of 120 metres. A total interval of at least 60 metres, with the potential to host lithium in brines, was intersected. The results successfully confirmed the presence of lithium-bearing brines in this target area. These positive results under these alluvial fans, which have previously not been tested, expand the area and volume of potential lithium brine mineral resources. The base of the acquifer was not confirmed by the drilling.

Consistent lithium grades were returned from all five samples taken within the 60 metre interval, along with consistent values for other elements. This outcome is a positive indicator of strong aquifer thickness for brine in hole PM23-IN-04.

Also encouragingly, the lithium concentration in PM23-IN-04 is higher on average than the first three drillholes at Incahuasi; PM22-IN-02 averaged 210mg/L, PM22-IN-01 averaged 195mg/L, and PM23-IN-03 averaged 185mg/L. The results confirm a consistency of lithium grade across all four holes at Incahuasi.

Refer previous ASX announcements of 29 March 2023, 14 February 2023 and 12 January 2023 for further details of the results of previous holes in the program. See Figure 3 for Incahuasi drillhole locations.



Figure 1: Brines packer testing at drillhole PM23-IN-04 at Incahuasi salar, Salta Lithium Project.





"The results from the final drillhole in our Mineral Resource definition drilling at the Incahuasi salar are significant and positive. In addition to returning the highest average lithium grades to date and high brine density results, they also confirm consistency of lithium grade across all four holes completed in the program. We will now move to confirm a maiden JORC Mineral Resource at Incahuasi, while the drill rig moves to the Rincon salar, the next target in our ongoing Mineral Resource definition drilling campaign."

**Power Minerals MD Mena Habib** 

Sample	Depth From	Depth To	Density kg/L	Li mg/L
PNN-2575/76 (averaged)	56	58	1.21	212
PNN-2574	68	70	1.21	216
PNN-2573	80	82	1.21	214
PNN-2571	92	94	1.21	210
PNN-2570	116	118	1.21	221

 Table 1: Highlight results for fourth drillhole (PM23-IN-04) at Incahuasi salar

Drillhole PM23-IN-04 is situated near the south-western boundary of Power's licence area at the Incahuasi salar. The drillhole was located on an alluvial fan, approximately 1km from the edge of the current salt surface at Incahuasi (Figure 3).

Brine samples and core from PM23-IN-04 and PM23-IN-03 have been sent for laboratory analysis to determine detailed brine chemistry and density, drainable porosity, and confirm lithium grades (Figure 2). Results will be reported when they are available.







Figure 2: Core from drillhole PM23-IN-04 at Incahuasi salar, Salta Lithium Project.







Figure 3: Drillhole locations at the Incahuasi salar with potential lithium brine Resource area (green outline).

## Background to Incahuasi Resource Drilling

The completed drilling program at the Incahuasi salar represents the first phase of Power's ongoing JORC Mineral Resource expansion drilling campaign at the Salta Project. Drilling will now move to the next target, the Rincon salar, and then to the Pocitos salar.

With drilling at Incahuasi now complete, Power plans to confirm a maiden JORC Mineral Resource at this target, with the aim of contributing significant additional resources to the Project's existing resource inventory.





Power's ongoing Mineral Resource drilling campaign is targeting the Incahuasi, Rincon and Pocitos salares at the Salta Project (Figure 4), and is designed to expand the Project's existing JORC Mineral Resource, to support future development plans.

### About the Salta Lithium Project

The Salta Project is strategically located in the Salta province in north-west Argentina and is part of the Lithium Triangle, the world's leading lithium-brine region. The Project consists of five salares (salt lakes) that sit within seven mining leases, over a total project area of 147.07km<sup>2</sup>. The Project's Incahuasi salar is located immediately adjacent to Ganfeng Lithium Co. Ltd's project and the Rincon salar is adjacent to Rincon Mining Ltd, recently acquired by Rio Tinto Ltd for US\$825 million. Power is focused on the accelerated exploration and development of the Project, to drive shareholder value.



Figure 4: Salta Lithium Brine Project location map, north-west Argentina (PNN licences in green)

Authorised for release by the Board of Power Minerals Limited.

#### -ENDS-





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### **About Power Minerals Limited**

Power Minerals Limited is an ASX-listed lithium-focused exploration and development company, committed to the systematic exploration and development of its core asset, the Salta Lithium Brine Project in the prolific lithium triangle in the Salta Province in Argentina. It is currently undertaking a major JORC Mineral Resource expansion drilling campaign at Salta, and is focused on expediting development of the Project in to a potential, future lithium producing operation. Power also has a portfolio of other assets in key, demand-driven commodities including; kaolin-halloysite, nickel-copper-cobalt and PGEs plus copper-gold.

#### **Competent Persons Statement**

This announcement regarding the Salta Lithium project has been prepared with information compiled by Marcela Casini, MAusIMM. Marcela Casini is the Company's Exploration Manager, Argentina and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration 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". Marcela Casini consents to the inclusion in the report of the matters based on her information in the form and context in which it appears.

#### **Forward looking Statements**

This announcement contains 'forward-looking information' that is based on the Company's expectations, estimates and projections as of the date on which the statements were made. This forward-looking information includes, among other things, statements with respect to the Company's business strategy, plans, development, objectives, performance, outlook, growth, cash flow, projections, targets and expectations, mineral reserves and resources, results of exploration and related expenses. Generally, this forward-looking information can be identified by the use of forward-looking terminology such as 'outlook', 'anticipate', 'project', 'target', 'potential', 'likely', 'believe', 'estimate', 'expect', 'intend', 'may', 'would', 'could', 'should', 'scheduled', 'will', 'plan', 'forecast', 'evolve' and similar expressions. Persons reading this announcement are cautioned that such statements are only predictions, and that the Company's actual future results or performance may be materially different. Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the Company's actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information.

# JORC Code, 2012 Edition – Table 1 Report

## Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul> <li>Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling.</li> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralization that are Material to the Public Report.</li> <li>In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverized to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralization types (e.g. submarine nodules) may warrant disclosure of detailed information.</li> </ul>	<ul> <li>The diamond drill hole was completed using triple tube HQ3 drilling with 61.1mm diameter core. Core recovery was measured on all core runs.</li> <li>Sampling from the diamond core for petrophysical parameters has been completed but results have not yet been received.</li> <li>Liquid samples were collected using drillhole packers at various depths with regular two metre thicknesses.</li> <li>Drillhole packer fluid samples were measure at the time of sampling for density, temperature and pH.</li> <li>During the packer test, several 200L drums are filled with drillhole fluid. If a single drum is not filled in 30 minutes, the formation interval being tested is considered dry, in that case it is considered that the fluid is only that within the drilling barrel and so is not representative of the formation at that depth.</li> <li>To collect a representative sample the drillhole fluid must be cleaned. Current sampling involved taking out the amount of brine that represents three times the drillhole volume capacity at any given depth.</li> <li>Five liquid samples (plus quality control samples) from given depths have been analysed for a suite of elements, density, electrical conductivity and pH.</li> </ul>
Drilling techniques	• Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc.).	<ul> <li>Contractor Hidrotec SRL completed the drilling by triple tube HQ3 diamond core.</li> <li>Surface brine has been used as drilling fluid for lubrication during drilling.</li> </ul>

Criteria	JORC Code explanation	Commentary
Drill sample recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximize sample recovery and ensure representative nature of the samples.</li> <li>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</li> </ul>	<ul> <li>Diamond drill core recoveries were calculated by measuring the core recovered against the drillers recorded depth for each diamond core run.</li> <li>There can be high range in core recovery (zero to 100%) in some sections of drillhole. With complete core loss it is difficult to impossible to determine visual porosity for that interval. It is unknown if the core loss will reflect a positive or negative bias on the results reported over that down hole section.</li> <li>Brine quality is not directly related to core recovery and is largely independent of the quality of core samples. However, the porosity and permeability of the lithologies where samples are taken is related to the rate of brine inflow.</li> </ul>
Logging	<ul> <li>Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	<ul> <li>All drill core has been qualitatively logged by company geologists, recording lithology, alteration, sedimentary structures, visual porosity estimate to company procedures.</li> <li>All drill core was photographed prior to removing from site.</li> <li>The entire length of all drillhole core has been logged.</li> <li>The drillhole is geophysically logged for resistivity and spontaneous potential (SP) to assist in identifying the aquifer.</li> </ul>
Sub-sampling techniques and sample preparation	<ul> <li>If core, whether cut or sawn and whether quarter, half or all core taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to maximize representivity of samples.</li> <li>Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.</li> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<ul> <li>The sampling of drill core for petrophysical parameters is currently in progress.</li> </ul>

Criteria	JORC Code explanation	Commentary				
Quality of assay data and laboratory tests	<ul> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <li>For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</li> <li>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</li> </ul>	<ul> <li>The Alex Stewart (Norlab) laboratory in Palpala, Jujuy, Argentina, is used as the primary laboratory to conduct the assaying of the brine samples collected as part of the sampling program. The Alex Stewart laboratory specialises in the chemical analysis of brines and inorganic salts, with experience in this field.</li> <li>Control samples included one standard and one blank were used to monitor potential contamination of samples and the repeatability of analyses. Control samples were inserted at a ratio of 1:2.7 field samples (38% control).</li> <li>The control samples, including one blank, one Standard and one field duplicate sample were all within acceptable ranges.</li> <li>Alex Stewart also provided results for one laboratory duplicate with all values within acceptable variances.</li> </ul>				
Verification of sampling and assaying	<ul> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul>	<ul> <li>On completion of the drilling, the logging and sampling data will be checked by the Exploration Manager for inconsistencies and then stored in an MS Access relational database.</li> <li>No holes were twinned.</li> <li>Drill core was logged by hand on printed log sheets. Data is then input into MS Excel spreadsheets which are then emailed to database manager for input into MS Access. The data is interrogated and all discrepancies are communicated and resolved with the field teams to ensure only properly verified data is stored in the Access database.</li> </ul>				
Location of data points	<ul> <li>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</li> <li>Specification of the grid system used.</li> </ul>	<ul> <li>All drill hole collar was initially surveyed with a hand held GPS.</li> <li>No drillhole downhole orientation surveys were conducted on the vertical hole.</li> </ul>				

Criteria	JORC Code explanation	Commentary				
	• Quality and adequacy of topographic control.	• All work has been carried out using standard WGS84 UTM Zone 19S coordinate system.				
Data spacing and distribution	<ul> <li>Data spacing for reporting of Exploration Results.</li> <li>Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</li> <li>Whether sample compositing has been applied.</li> </ul>	• This drillhole is on the southeast side of the Incahuasi Salar (Salta) and the diamond drilling spacing when complete is expected to be sufficient to establish the geological and grade continuity of the deposit for Mineral Resource estimation.				
Orientation of data in relation to geological structure	<ul> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</li> </ul>	<ul> <li>The salt lake (salar) deposits that contain lithium-bearing brines generally have sub-horizontal beds and lenses that contain sand, gravel, salt, silt and clay. The vertical diamond drill hole will provide a better understanding of the stratigraphy and the nature of the sub-surface brine bearing aquifers</li> <li>Reported depths are all down-hole depths in metres.</li> </ul>				
Sample security	• The measures taken to ensure sample security.	<ul> <li>Samples were transported to the laboratory for chemical analysis in sealed 1-litre rigid plastic bottles with sample numbers clearly identified. Samples were transported by a trusted member of the team or courier.</li> <li>The water samples were moved from the drillhole site to secure storage at the camp on a daily basis.</li> </ul>				
Audits or reviews	• The results of any audits or reviews of sampling techniques and data.	<ul> <li>All planned sampling techniques and procedures for data capture were deemed to be of industry standard and satisfactory; being supervised by the company's senior and experienced geologists.</li> </ul>				

## Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	<ul> <li>Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.</li> <li>The security of the tenure held at the time of reporting along with any known impediments to obtaining a license to operate in the area.</li> </ul>	<ul> <li>Mina 'Sisifo' File Number 20545 is held 100% by Power Minerals SA, an Argentina entity wholly owned by Power Minerals Ltd (ASX:PNN).</li> <li>The Mina is held under grant from the Mining Court of Salta Province, Argentina in perpetuity and is appropriately maintained.</li> </ul>
Exploration done by other parties	<ul> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	• There is no known modern exploration in this local area by other parties.
Geology	• Deposit type, geological setting and style of mineralisation.	<ul> <li>The sediments within the salar consist of salt/halite, clay, sand and silt horizons, accumulated in the salar from terrestrial sedimentation and evaporation of brines.</li> <li>Brines within the Salt Lake are formed by the solar concentration of fluids containing trace amounts of elements such as lithium. The lithium originated as a product of geothermal fluids and the weathering of volcanic rocks.</li> <li>Geology was recorded during the diamond drilling.</li> </ul>
Drillhole Information	<ul> <li>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:         <ul> <li>easting and northing of the drill hole collar</li> <li>elevation or RL (Reduced Level – elevation above sea level in meters) of the drill hole collar</li> <li>dip and azimuth of the hole</li> <li>down hole length and interception depth</li> <li>hole length.</li> </ul> </li> </ul>	<ul> <li>Drillhole ID: PM23-IN-04</li> <li>Easting: 650999 (WGS84, Zone 19S)</li> <li>Northing: 7314076 (WGS84 Zone 19S)</li> <li>Elevation: 3,495 metres (above sea level)</li> <li>Total hole depth: 120 metres (vertical)</li> <li>Sample results, Li in mg/L, depth in metres, density in kg/L.</li> </ul>

Criteria	JORC Code explanation	Commentary					
	information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should	Sample	Depth From	Depth To	Density kg/L	Li mg/L	
	clearly explain why this is the case.	PNN- 2575/76 (averaged)	56	58	1.21	212	
		PNN-2574	68	70	1.21	216	
		PNN-2573	80	82	1.21	214	
		PNN-2571	92	94	1.21	210	
		PNN-2570	116	118	1.21	221	
Data aggregation methods	<ul> <li>In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated.</li> <li>Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.</li> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>	Assay me sampling samples	an avera	ges have the sam oth field a	been provid e sampling and laborat	ded where interval. I ory duplic	Multiple Multiple ate samples.
Relationship between mineralisation widths and intercept lengths	<ul> <li>These relationships are particularly important in the reporting of Exploration Results.</li> <li>If the geometry of the mineralization with respect to the drill hole angle is known, its nature should be reported.</li> <li>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known').</li> </ul>	<ul> <li>The drill</li> <li>Mineralis</li> <li>is perper</li> </ul>	ation intendicular to	drilled wit erpreted t o this.	h dip of -90 o be horizc	degrees ( intally lyin	vertical). g and drilling
Diagrams	<ul> <li>Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.</li> </ul>	<ul> <li>Map is pr report.</li> </ul>	rovided. I	Relevant s	sections are	e provided	in the main

Criteria	JORC Code explanation	Commentary
Balanced reporting	• Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.	• All grade information has been provided.
Other substantive exploration data	<ul> <li>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples         <ul> <li>size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</li> </ul> </li> </ul>	<ul> <li>Core samples for petrophysical measurements have been collected but results have not been completed.</li> </ul>
<i>Further work</i>	<ul> <li>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	<ul> <li>The results will be assessed on an ongoing basis and additional holes will be planned and drilled when deemed necessary. All further work on each target area is dependent on the results received.</li> </ul>