

ESSENTIAL METALS

for a sustainable future

ASX Code: ESS

Corporate Profile

Shares on issue: 251,773,629 Listed Options: 15,434,525 (\$0.15 exercise: 30/11/22 expiry)

Cash: \$8.1m (30 Sep 2022)

Debt: Nil

KEY PROJECTS

LITHIUM Pioneer Dome **GOLD** Golden Ridge **GOLD** Juglah Dome

Joint Ventures (ESS %)

2 x nickel projects (20-25%)*
4 x gold projects (25-30%)*
* Free carried to a decision to mine

Corporate Directory

Non-Executive Chairman Craig McGown

Non-Executive Directors Paul Payne Warren Hallam

Managing Director Timothy Spencer

Company Secretary
Greg Fitzgerald

Exploration Manager Andrew Dunn

Investor Relations

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31 October 2022

SEPTEMBER 2022 QUARTERLY REPORT

Pioneer Dome Lithium Project: Resource drilling, metallurgical test work and mining lease application completed - Scoping Study and engagement with prospective offtaker/financiers underway

HIGHLIGHTS

- **Pioneer Dome Lithium Project, WA**: Key operational activities during the Quarter were:
 - Resource drilling programme completed, providing geological information to help frame the potential scale of mining operations for the purposes of finalising the scoping study.
 - Metallurgical test work completed on three composite samples selected to represent the upper zone of the Cade deposit, the upper zone of the Davy deposit and the fresh rock zone of the Davy deposit. The results, received post-quarter, demonstrate positive recoveries for these previously untested mineralisation domains at Dome North.
 - A mining Lease application was submitted for the Dome North Lithium Mineral Resource and near surrounds. The granting process is anticipated to take approximately six months.
 - o A **scoping study** commenced during the Quarter and is expected to be completed in January 2023. Initial production targets are based on the current Mineral Resource of 11.2Mt @ 1.21% Li₂O but will incorporate the results of an update of the Mineral Resource and pit modelling, scheduled for November. The proposed plant throughput is expected to be 1.2Mtpa.
- Project Partners: Expressions of Interest have been sought from multiple lithium industry participants to partner with the Company by assisting with financing the Project in return for project equity and offtake rights.
- Closing cash on hand as at 30 September 2022 was **\$8.1 million**. Listed options (ESSO) due to expire on 30 November 2022 with a 15c exercise price to generate approx. **\$3 million** in cash proceeds if exercised.

PIONEER DOME LITHIUM PROJECT

The Pioneer Dome Project (ESS: 100%) is located in the heart of Western Australia's lithium corridor in the Eastern Goldfields, approximately 130km south of Kalgoorlie and 275km north of the Port of Esperance. A Mineral Resource of 11.2Mt @ 1.21% Li_2O^1 has been defined at Dome North in the northern area of the Project.

The southern Yilgarn area is recognised as being well-endowed with spodumene deposits, including the Bald Hill Mine, the Mt Marion Mine and the Buldania Project. The world-class Greenbushes Deposit, the Mt Holland Mine and the Mt Cattlin Mine are located further west, south-west and south-south-west, respectively.

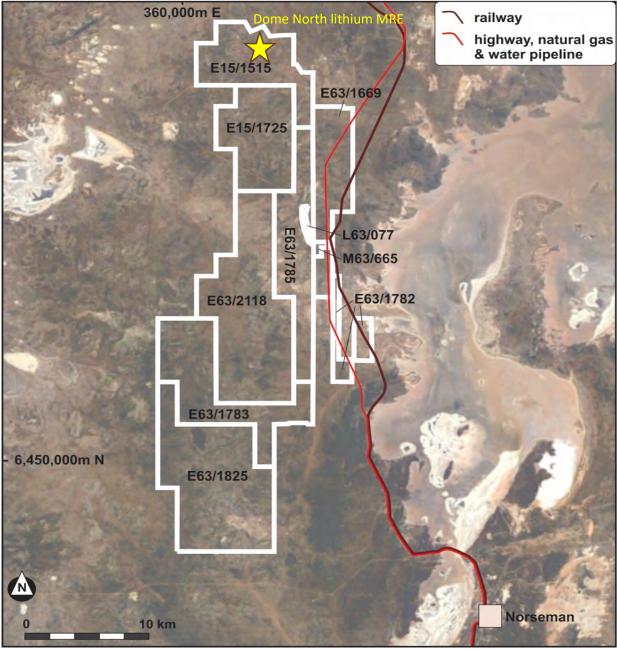


Figure 1 - The location of the tenements of the Pioneer Dome Lithium Project relative to major infrastructure.

¹ Refer ASX:ESS announcement 29 September 2020 – Dome North Resource upgrade

DOME NORTH RESOURCE DRILL PROGRAMME

The Dome North drill programme targeting depth extensions at the Cade and Davy deposits, as well as testing the northern and southern strike extensions at Davy, was completed during the Quarter. The assay results related to this programme were included in an ASX announcement dated 27 October 2022 titled 'Pioneer Dome lithium assays'.

A total of 21 holes were drilled using a combination of Reverse Circulation (RC) (5,402m) and diamond core tails (RCD) (2,093m) drilling for a total of 7,495m (see Figure 2 for the hole locations).

Observations and assay results indicate that the depth potential for spodumene mineralisation at Cade and Davy is constrained below the current Mineral Resource domains, as well as at the southern end of Davy.

Drill testing at the northern end of the Davy deposit has confirmed the presence of two sub-parallel spodumene-bearing pegmatites. Best intersections from this drilling included:

- 3m @ 1.22% Li₂O from 134m (PDRCD720)
- 2.6m @ 0.86% Li₂O from 179m (PDRCD720) second pegmatite in hole.
- 5m @ 0.89% Li₂O from 77m (PDRC712)
- 3m @ 0.79% Li₂O from 71m (PDRC715)
- 3m @ 0.87% Li₂O from 170m (PDRC719)

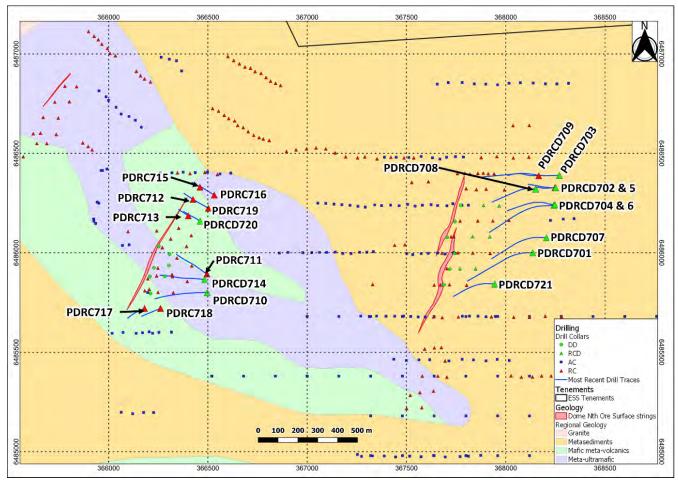


Figure 2 - Hole location and drill traces (blue lines) of most drilling at Dome North.

CADE DRILLING

A total of 10 holes for 4,654m were drilled to test the potential depth extent of the spodumene zones (Figure 3Figure 2).

Pegmatite was intersected in all seven deeper holes drilled to target depth. The 0.6m wide pegmatite intersection in hole PDRCD703 appears to limit the northern extent of the pegmatite and, while the holes drilled under the Mineral Resource intersected thick intervals of pegmatite, particularly to the south, the assays confirm that – even though the pegmatite continues at depth – the spodumene zone currently defined within the Cade deposit appears to pinch out.

No assays greater than 0.5% Li₂O were returned for these holes. The identified spodumene in this drilling was altered and it is interpreted that the lithium was depleted in these instances. This drill programme limits the underground potential at Cade.

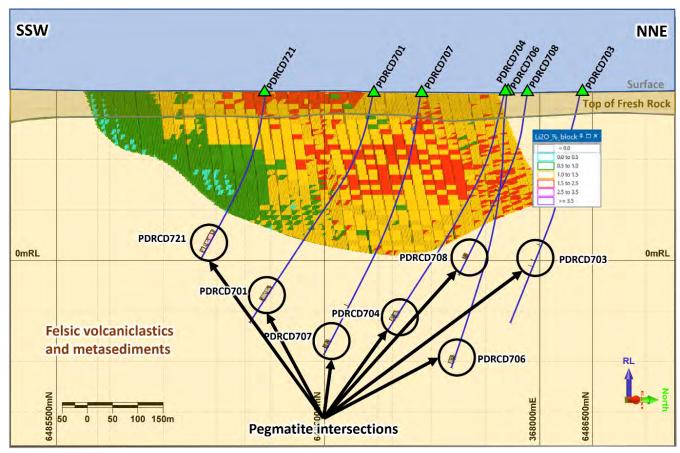


Figure 3 – Long section of the Cade deposit with the reported drill traces (blue lines). Pegmatite intersections from the most recent drill programme are shown beside the drill traces. Note that, for clarity, only the holes that reached target depth are shown.

DAVY DRILLING

Eleven holes for 2,841m were drilled at Davy to investigate the potential extension of the spodumene mineralisation at depth and along strike both to the south and north of the previous drilling (Figure 4).

Assay results and logging confirm the presence of two spodumene-bearing pegmatites at the northern end of the Davy deposit. Significant intersections included:

- 1m @ 0.68% Li₂O from 349m (PDRC711)
- 5m @ 0.89% Li₂O from 77m (PDRC712)
- 2m @ 0.72% Li₂O from 92m (PDRC713)
- 3m @ 0.79% Li₂O from 71m (PDRC715)
- 1m @ 0.65% Li₂O from 151m (PDRC716)
- 3m @ 0.87% Li₂O from 170m (PDRC719)
- 3m @ 1.22% Li₂O from 134m (PDRCD720)
- 2.6m @ 0.86% Li₂O from 179m (PDRCD720) second pegmatite in hole.

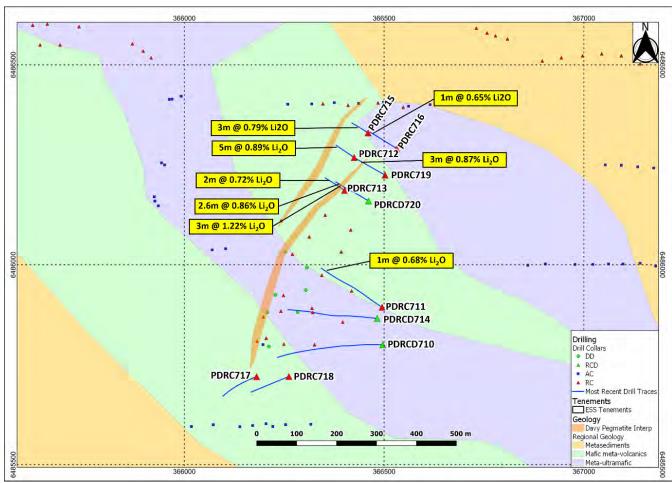


Figure 4 – Hole location and drill traces (blue lines) of most recent drilling at Davy. Note that new interpretation of the pegmatites that are projected to surface is shown by the orange shaded areas.

The visual observations and assay results constrain the potential spodumene resource to the south and at depth.

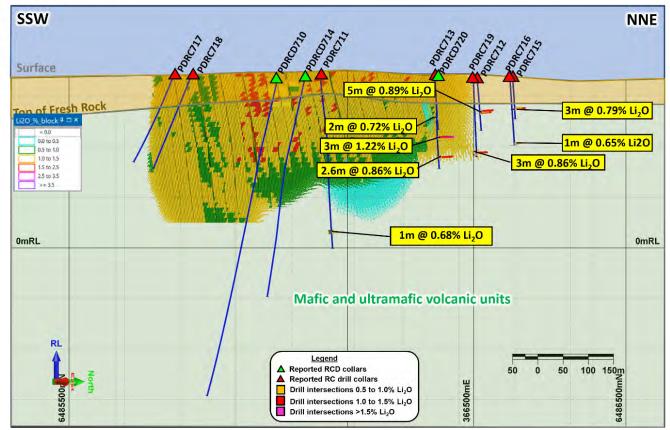


Figure 5 – Long section of the Davy deposit with the reported drill traces (blue lines). Significant intersections from the most recent programme are labelled with the yellow call outs.

METALLURGICAL TEST WORK

The three composites for the test work programme were selected from core drill holes from the three domains. Geological logging, elemental assays and an open pit optimisation were used to check that the composites were as representative of the domains as is practical, given the samples available.

The results of the test work were contained in an ASX announcement dated 7 October titled 'Positive lithium met test work results'.

KEY FINDINGS

- All test work to date indicates that the vast bulk of the Dome North resource (Cade Fresh, Cade Weathered and Davy Fresh) will result in high recoveries with the production of marketable concentrate grades.
- The test work was designed to determine the lithia recoveries based on a hybrid pilot DMS and flotation flowsheet.
- The results show that the Cade Weathered mineralisation is expected to return an overall recovery similar to the 74-82% Li₂O overall recovery rates returned from the previously tested Cade Fresh composite sample. The whole Cade deposit represents 73% of the Mineral Resource.

- The results show that the Davy Fresh mineralisation is expected to return a lower overall recovery at around 64% Li₂O.
- Due to the higher degree of weathering in the Davy Weathered composite, it is difficult to confidently estimate from these results the expected overall lithia recovery for this domain via a hybrid pilot DMS and flotation flowsheet. However, the results suggest it could be in the range of 30-50% Li₂O recovery at a target concentrate grade of 5.7% Li₂O.
- Although the Davy Weathered and Davy Fresh composites have returned lower recoveries, they
 represent smaller components of the Mineral Resource. The Davy weathered and transitional zones
 represent 4% of the Mineral Resource whilst the Davy fresh zone represents 16% of the Mineral
 Resource.
- The Scoping Study will determine how much each domain represents in terms of mining inventory.

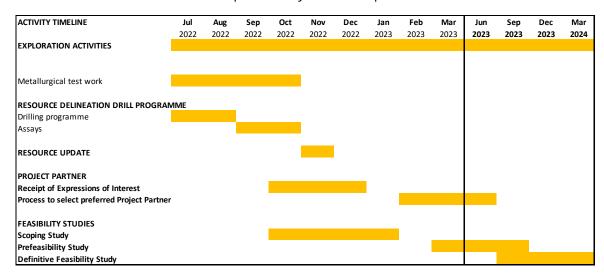
GETTING DEVELOPMENT READY

The initial key steps being taken to advance the Pioneer Dome Lithium Project towards development are:

- Update of Lithium Mineral Resource report due end-November
- Open Pits Optimisation study results due December
- Expressions of Interest issued to potential project partners seeking financing in return for offtake rights responses due December.
- Scoping Study report due January
- Mining lease application lodged in September and expected to take 6 months to be granted.

The Dome North lithium Mineral Resource remains the only Australian lithium Mineral Resource not yet subject to an offtake commitment.

The Company is presently engaged in ongoing discussions with various local and international lithium participants interested in off-take and/or investment. The Company cautions that it is not party to any binding agreements with respect to the aforementioned discussions and that an investment decision should not be made on the basis of these discussions. There can be no certainty that any binding agreement or agreements will eventuate. The Company will keep shareholders updated as to any material developments, cautioning that at the current time all discussions are preliminary and incomplete.



GOLDEN RIDGE GOLD PROJECT

The Golden Ridge Gold Project (ESS: 100% Au) is located 20km south-east of Kalgoorlie and is highly prospective for gold and nickel mineralisation. The Project lies within the well-endowed Menzies-Boorara Shear Zone that hosts the Paddington, Boorara and Golden Ridge Deposits. Exploration at the Project has identified multiple highly prospective gold and nickel targets.

No significant gold exploration activities were undertaken during the Quarter.

JUGLAH DOME GOLD PROJECT

The Juglah Dome Project (ESS: 100%) is located ~60km east-southeast of Kalgoorlie and is highly prospective for gold mineralisation. Exploration by previous owners identified multiple gold targets using soil geochemistry and drilling. The Project lies in a similar geological setting to the Majestic and Imperial Deposits, located 10km to the north-west, and the Daisy Complex to the west, which forms part of Silver Lake Resources Limited's Mt Monger Operations.

No significant gold exploration activities were undertaken during the Quarter.

JOINT VENTURE INTERESTS

Essential Metals has a portfolio of minority (20%-30%) free-carried interests in four gold and two nickel joint ventures located in Western Australia.

Acra Gold Joint Venture Eastern Goldfields WA

ESS 25% - Northern Star Resources Limited (ASX: NST) 75%

Joint Venture partner, Northern Star Resources, advised that Reverse Circulation (RC) drilling was completed at the Gambia South prospect located two kilometres south of Horizon Mineral's Gambia open pit and 49 kilometres southwest of the Carosue Dam mill. Gold mineralisation along the Gambia trend is associated with multiple flat-lying stacked lodes hosted within a northwest trending gabbro unit.

In total, nine RC holes were drilled for a total of 995m. Drilling successfully intersected the host gabbro package; however, the tenor of results were below expectations relative to the initial program completed in October 2021.

Drilling has confirmed the existing interpretation of flat lying lodes but indicate limited strike and width extent of the high-grade gold zones and therefore it is believed that there is limited potential resource tonnage. No further drilling is planned or recommended for the Gambia South target area. Further exploration will be directed further along strike to the south where limited drilling has been completed.

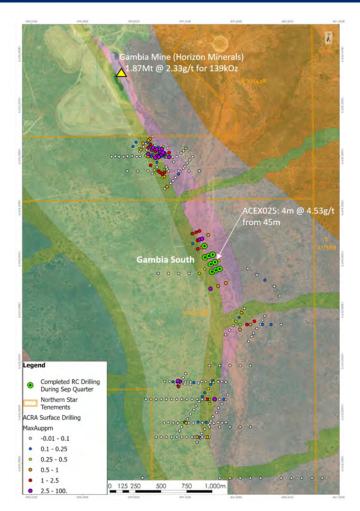


Figure 6. Map showing the location of planned Gambia South RC drilling, the status of results, geology and interpreted mineralised structures.

Blair - Golden Ridge Nickel Joint Venture Eastern Goldfields WA (nickel rights only)

ESS 100% reducing to 25% - Australian Nickel Co. Ltd (renamed from Crest Investment Group 1 Ltd) earning 75% (farmin stage)

The Blair - Golden Ridge Nickel Project is located approximately 30km by sealed road to the south east of Kalgoorlie-Boulder and hosts the historical Blair Nickel Mine, which produced a total of 1.2 Mt@ 2.63% Ni between 1989 and 2009. The consolidated 113km² project area is considered highly prospective for the discovery of new high-grade komatiite-hosted nickel deposits (Kambalda style).

The Golden Ridge Project is currently being managed by highly experienced nickel explorers and developers Australian Nickel Company Limited ("ANCO") through a Farm-In Joint Venture Agreement with Essential Metals Limited ("ESS"). ANCO has the right to earn a 75% interest in the nickel and related commodities rights by spending \$4.0 million over 4 years, with ESS retaining a 25% free-carried interest to a decision to mine.

Key activities during the quarter included:

• Completion of a 77 hole (7,519 metre) aircore (AC) drilling program across the Leo Dam Prospect located to the immediate north east of the Blair Nickel Mine. Laboratory assays are pending.

- Targeting and planning for a 30 hole (4,500 5,000 metre) reverse circulation drilling program at the Blair South Gresham Prospects scheduled for commencement in October. A selection of holes will be cased and down hole electromagnetic (DHEM) surveys undertaken.
- Integration of all available modelled electromagnetic plates (targets) into the drilling database. These targets are being re-assessed in the context of the new information delivered from RC drilling completed earlier in the year.
- Ongoing targeting and assessment across the Golden Ridge Project using the extensive historical database continues.

Balagundi Gold/Base Metals Joint Venture Eastern Goldfields WA

ESS 100% reducing to 25% - Black Cat Syndicate Limited (ASX: BC8) earning 75% (farm-in stage)

The Balagundi Project is located 25km east of Kalgoorlie and sits immediately adjacent to the north-west portion of the Myhree Mining Centre within the Kurnalpi Terrane, which is separated from the Myhree Mining Centre by the Victory Fault (a second order regional structure). The project is prospective for both gold and base metal VMS-style deposits. Essential Metals and Black Cat entered into the Farm-in and Joint Venture in July 2019.

During the Quarter, a government subsidised (EIS) diamond drilling programme was completed for a total of 917m to test surface geochemical and sub-surface geophysical anomalies at three targets (Anvil, Brontes, Asterope).

Full hole analysis conducted by AR-ICP for a suite of elements, as well as petrographical analysis, are underway and expected to be completed during the December quarter.

Wattle Dam Nickel Joint Venture Eastern Goldfields WA (nickel rights only)

ESS 20% - Maximus Resources Limited (ASX: MXR) 80%

The Company holds a 20% free-carried interest (nickel only) in the Wattle Dam project near Kambalda, WA, with Maximus Resources Ltd (ASX: MXR).

Exploration activity by the JV operator, Maximus Resources Limited (Maximus), focused on the Hilditch West target during the Quarter.

Maximus completed a follow-up drill programme, designed to expand the initial scout drilling which successfully discovered shallow nickel-copper-cobalt intersections which included 5m @ 1.2% Ni and 2m @ 1.5% Ni (ASX:MXR announcement 22 July 2021).

The programme was comprised of 14 RC holes for 1,590m and two diamond drill holes for 490m. The diamond drilling was completed under the EIS which co-funded 50% of the drilling costs.²

Drilling intersected additional mineralisation within the project area with significant intercepts including:

5m @ 0.9% Ni, 0.03% Co, 0.05% Cu from 42m, including 2m @ 1.1% Ni, 0.03% Co, 0.05% and

² Refer ASX:MXR announcement dated 20 July 2022 "Quarterly Activities Report".

- o 9m @ 0.6% Ni, 0.03% Co from 49m, including 4m @ 0.8% Ni, 0.05% Co and
- o 0.02% Cu and 11m @ 0.4% Ni, from 95m (HWRC016)
- 28m @ 0.3% Ni from 92m including 4m @ 0.5% Ni from 106m (HWRC008)
- 11m @ 0.4% Ni, 0.03% Co from 27m including 2m @ 0.9% Ni, 0.04% Co, 0.02% Cu from 27m (HWRC015)
- 1m @ 0.9% Ni, 0.03% Co from 70m (HWRC010)

Larkinville Joint Venture Eastern Goldfields WA

ESS 25% - Maximus Resources Limited (ASX: MXR) 75%

The Company holds a 25% free-carried interest (all minerals except 20% for nickel) in the Wattle Dam project near Kambalda, WA, with Maximus Resources Ltd (ASX: MXR).

A multi-target UAV (drone) magnetic survey was completed over various targets across Maximus' projects, including the Larkinville JV tenement.

Kangan Gold Joint Venture Pilbara, WA

ESS 30% - Novo Resources Limited 70%

The Kangan Project is located in the West Pilbara region of Western Australia. Novo Resources Corp holds a 70% interest in the Project with Essential Metals retaining a 30% interest. Novo will fully fund all gold exploration programmes with Essential Metals free-carried until a decision to mine is made.

No significant gold exploration activities were undertaken during the Quarter.

CORPORATE

As at 30 September 2022, the Company held \$8.1 million in cash reserves and had no debt.

At the end of the quarter the Company held 1.25 million shares in International Lithium Corp (TSXV: ILC.V) valued at \$0.11 million (\$0.09 per share).

During the quarter the Company issued 1,546,362 ordinary shares for gross proceeds of \$231,954 upon the exercise of listed ESSO share options at \$0.15 that expire on or before 30 November 2022.

Post-quarter: On 14 October, Carl Travaglini resigned from the positions of Chief Financial Officer and Company Secretary and Greg Fitzgerald was appointed as Company Secretary.

Appendix 5B expenditure disclosure

During the quarter, the Company paid a total of A\$149,000 to related parties, comprising all directors of the Company (Managing Director salary, non-executive director fees and superannuation). (Appendix 5B, Item 6).

This ASX release has been approved by the Board of Directors

For further information:

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Relevant ASX announcements:

- 29 September 2020 Dome North Resource upgrade
- 14 July 2022 Pioneer Dome Lithium Project update
- 19 July 2022 Nickel drill hits at Blair golden Ridge Nickel JV Project
- 12 August 2022 Pioneer Dome Lithium Project update
- 5 September 2022 Scoping Study and offtake discussions commence
- 12 September 2022 Drilling commences at Balagundi Cu-Zn-Pb-Au Project (BC8 cross-release)
- 13 September 2022 Scoping study and offtake discussions commence amended
- 26 September 2022 Mining lease lodged over Dome North Lithium Resource
- 7 October 2022 Positive lithium met test work
- 27 October 2022 Pioneer Dome lithium assays

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

ABOUT ESSENTIAL METALS LIMITED

Essential Metals is a well-funded and active explorer focused on key global demand-driven commodities, focussed on the creation of shareholder wealth through exploration and project development. The Company operates three strategically located lithium and gold projects in Western Australia.

100% OWNED AND MANAGED PROJECTS:

- **LITHIUM**: The **Pioneer Dome LCT Project** is highly prospective for lithium-caesium-tantalum (LCT) mineral systems and includes the **Dome North Lithium Mineral Resource** of 11.2 million tonnes @ 1.21% Li₂O.³
- **GOLD:** The **Juglah Dome Project** is located 60km east-southeast of Kalgoorlie and is considered to be highly prospective for gold and has potential for VHMS style polymetallic deposits.
- **GOLD:** The **Golden Ridge Project** is located ~20km SSE of Kalgoorlie, WA. Our activities are focussed on reappraising known prospects as well as identifying new areas within the large land tenure.

JOINT VENTURE INTERESTS:

- **GOLD:** The **Acra** Project is near Kalgoorlie. Northern Star Resources Limited (ASX: NST) has earned a 75% Project Interest and continues to fully fund exploration programmes until approval of a Mining Proposal by DMIRS is received with Essential Metals holding a 25% interest.
- **GOLD:** The **Kangan** Project is in the West Pilbara and part of a joint venture with Novo Resources Corp (TSXV.NVO), who will fund 100% of gold exploration programmes until a decision to mine is made, with Essential Metals holding a 30% interest.
- **GOLD:** The **Balagundi** Project is subject to a farmin & JV agreement where Black Cat Syndicate Limited (ASX: BC8) is earning a 75% interest in the Project located at Bulong, near Kalgoorlie. Black Cat will then fully fund gold exploration programmes until a decision to mine is made, with Essential Metals retaining a 25% interest.
- GOLD: The Company holds a 25% free-carried interest (gold only) in the Larkinville Project near Kambalda, WA, with Maximus Resources Ltd (ASX: MXR).
- **NICKEL:** The nickel mineral rights on the **Blair-Golden Ridge** Project, which includes the suspended Blair Nickel Sulphide Mine. are subject to a Farmin/Joint Venture with Crest Investment Group, a nickel exploration specialist which is earning up to a 75% interest. The Company will retain a 25% free-carried interest up to a decision to mine.
- NICKEL: The Company holds a 20% free-carried interest (nickel only) in the Wattle Dam project near Kambalda, WA, with Maximus Resources Ltd (ASX: MXR).

Forward Looking Statements

This document may contain forward-looking statements which involve a number of risks and uncertainties. These forward looking statements are expressed in good faith and believed to have a reasonable basis. These statements reflect current expectations, intentions or strategies regarding the future and assumptions based on currently available information. Should one or more of the risks or uncertainties materialise, or should underlying assumptions prove incorrect, actual results may vary from the expectations, intentions and strategies described in this announcement. No obligation is assumed to update forward looking statements if these beliefs, opinions, and estimates should change or to reflect other future developments.

³ Refer ASX:ESS announcement 29 September 2020 – Dome North Resource upgrade

Competent Person Statements

Exploration Results - ESS Projects

Mr Andrew Dunn (MAIG), Exploration Manager who is employed full-time by Essential Metals Limited, compiled the technical aspects of this Report, other than pertaining to the Joint Ventures. Mr Dunn is eligible to receive equity-based securities in Essential Metals Limited under the Company's employee incentive schemes. Mr Dunn is a member of the Australian Institute of Geoscientists and has sufficient experience that is relevant to this style of mineralization and type of deposit under consideration and to the activity that is being reported on 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". Mr Dunn consents to the inclusion in the report of the matters in the form and context in which it appears.

Dome North Mineral Metallurgical Test Work - Competent Person Statement

The information in this report that relates to metallurgical test work for the Dome North Lithium Project has been reviewed by Mr Joshua Paterson who is a member of the Australasian Institute of Mining and Metallurgy. Mr Paterson is an employee of Primero Ltd and has sufficient experience relevant to the style of processing response and type of deposit under consideration, and to the activities 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'. Mr Paterson consents to the inclusion in the report of a summary based upon his information in the form and context in which it appears.

Dome North Lithium Project - Mineral Resources

The information in this Report that relates to Mineral Resources for the Dome North Lithium Project is based on and fairly represents information compiled by Competent Persons Mr Stuart Kerr and Mr Lauritz Barnes as extracted from the report entitled "Dome North Lithium Project – Resource upgrade" created on 29 September 2020 and is available to view on www.essmetals.com.au. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and, in the case of Mineral Resources, 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.

Dome North Lithium Mineral Resource (29 September 2020)

Project area	Category	Tonnes (Mt)	Grade (Li₂O %)	Tonnes Li₂O
Cada Danasit	Indicated	5.4	1.30	70,000
Cade Deposit	Inferred	2.8	1.18	33,000
Davy Deposit	Inferred	2.3	1.13	25,000
Heller Deposit	Inferred	0.7	1.02	8,000
Total		11.2	1.21	136,000

Blair-Golden Ridge Nickel Project Joint Venture

The information in this announcement which relates to exploration targets, exploration results or mineral resources is based on information compiled by Mr. Peter Langworthy. Mr. Langworthy has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking 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' (the JORC Code). Mr. Langworthy is Managing Director and Principal Consultant of OMNI GeoX Pty Ltd. And a Director of the Australian Nickel Company Limited Mr. Langworthy consents to the inclusion of the information in this announcement in the form and context in which it appears.

Acra Gold Project Joint Venture - Exploration Work

The information in this announcement that relates to exploration results for the Acra Project Joint Venture is based on information compiled by Michael Mulroney, a Competent Person who is a Member of the Australasian Institute of Mining and Metallurgy and a full-time employee of Northern Star Resources Limited. Mr Mulroney has sufficient experience that is relevant to the styles of mineralisation and type of deposits 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" for the Company's Acra Project Joint Venture. Mr Mulroney consents to the inclusion in this announcement of the matters based on this information in the form and context in which it appears.

Exploration Results (Wattle Dam and Larkinville Joint Ventures)

The information in this report pertaining to the Wattle Dam Nickel JV and the Larkinville JV is based on information reviewed, collated and compiled by Dr Travis Murphy, a full-time employee of Maximus Resources Limited. Dr Murphy is a professional geoscientist and Member of The Australian Institute of Geoscientists and has sufficient experience relevant to the style of mineralisation and type of Deposit under consideration and to the activity which has been undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Dr Murphy consents to the inclusion in the report of the matters based on information in the form and context in which it appears.

Appendix 1

The following information is provided in accordance with ASX Listing Rule 5.3 for the Quarter.

1. Listing of Tenements (Consolidated Basis) as at Quarter End

Tenement	Holder	Notes	Status
Pioneer Dome I	Project Located 133km SSE of Kalgoorlie, WA		
E15/1515	Essential Metals Limited		Granted
E15/1725	Essential Metals Limited		Granted
E63/1669	Essential Metals Limited		Granted
E63/1782	Essential Metals Limited		Granted
E63/1783	Essential Metals Limited		Granted
E63/1785	Essential Metals Limited		Granted
E63/1825	Essential Metals Limited		Granted
E63/2118	Essential Metals Limited		Granted
L63/77	Essential Metals Limited		Granted
M63/665	Essential Metals Limited		Granted
M15/1896	Essential Metals Limited		Application
Golden Ridge N	ickel Project Located 30km SE of Kalgoorlie, WA		
E26/186	Golden Ridge North Kambalda Pty Ltd	1, 2	Granted
E26/211	Golden Ridge North Kambalda Pty Ltd	1, 2	Granted
E26/212	Golden Ridge North Kambalda Pty Ltd	1, 2	Granted
M26/220	Golden Ridge North Kambalda Pty Ltd	1, 2	Granted
M26/222	Golden Ridge North Kambalda Pty Ltd	1, 2	Granted
M26/284	Golden Ridge North Kambalda Pty Ltd	1, 2	Granted
M26/285	Golden Ridge North Kambalda Pty Ltd	1, 2	Granted
L26/272	Golden Ridge North Kambalda Pty Ltd	1, 2	Granted
Juglah Dome Pr	oject Located 60km ESE of Kalgoorlie, WA		
E25/585	Western Copper Pty Ltd	3	Granted
Regional Project	ts, Located in WA		
E15/1710	Essential Metals Limited		Granted
Kangan Lithiun	n & Gold Project Located 80km S of Port Hedland, (Wodgina) WA		
E45/4948	Essential Metals Limited	5	Granted
E47/3318-I	Essential Metals Limited	4, 5	Granted
E47/3321-I	Essential Metals Limited	4, 5	Granted
E47/3945	Essential Metals Limited	5	Granted
Balagundi Gold	& Base Metals Project Located 25km NE of Kalgoorlie, WA		
E27/558	Essential Metals Limited	6	Granted
Acra Gold Proj	ect Located 60km NE of Kalgoorlie, WA		
E27/278	Essential Metals Limited / Northern Star Resources Limited	7, 8	Granted
E27/438	Essential Metals Limited / Northern Star Resources Limited	7, 8	Granted
E27/491	Essential Metals Limited / Northern Star Resources Limited	8	Granted
E27/520	Essential Metals Limited / Northern Star Resources Limited	7, 8	Granted
E27/548	Essential Metals Limited / Northern Star Resources Limited	8	Granted
E27/579	Essential Metals Limited / Northern Star Resources Limited	7, 8	Granted
E28/1746	Essential Metals Limited / Northern Star Resources Limited	7, 8	Granted
E28/2483	Essential Metals Limited / Northern Star Resources Limited	8	Granted

Tenement	Holder	Notes	Status	
Wattle Dam Nic	kel Project Located 65km S of Kalgoorlie, WA			
M15/1101	Maximus Resources Limited	9, 10	Granted	
M15/1263	Maximus Resources Limited	9, 10	Granted	
M15/1264	Maximus Resources Limited	9, 10	Granted	
M15/1323	Maximus Resources Limited	9, 10	Granted	
M15/1338	Maximus Resources Limited	9, 10	Granted	
M15/1769	Maximus Resources Limited	9, 10	Granted	
M15/1770	Maximus Resources Limited	9, 10	Granted	
M15/1771	Maximus Resources Limited	9, 10	Granted	
M15/1772	Maximus Resources Limited	9, 10	Granted	
M15/1773	Maximus Resources Limited	9, 10	Granted	
Larkinville West	: Gold Project Located 75km S of Kalgoorlie, WA			
M15/1449	Essential Metals Limited / Maximus Resources Limited	11	Granted	
P15/5912	Essential Metals Limited / Maximus Resources Limited	11	Granted	
Maggie Hays Hil	Maggie Hays Hill Nickel JV, Located 140km SE of Southern Cross			
E63/1784	Essential Metals Limited / Poseidon Nickel Limited	12	Granted	

Note	
1	Golden Ridge North Kambalda Pty Ltd is a 100% owned subsidiary of Essential Metals Limited.
2	Nickel sulphides rights are subject to the Australian Nickel Company Ltd Farmin/Joint venture.
3	Western Copper Pty Ltd is a 100% owned subsidiary of Essential Metals Limited.
4	Subject to a 1.5% net smelter royalty right held by FMG Pilbara Pty Ltd.
5	Kangan Gold JV Agreement: Novo Resources Corp holds a 70% Project Interest in gold and precious metals mineral rights.
6	Balagundi Farmin/JV Agreement: Black Cat Syndicate Limited is earning a 75% Project interest.
7	Heron Resources Limited retains nickel laterite ore rights.
8	Acra JV Agreement: Northern Star Resources Limited 75% interest. Essential Metals Limited 25% free carried interest.
9	Heron Resources Limited retains pre-emptive right to purchase nickel laterite ore.
10	Wattle Dam Nickel JV Agreement: Title, Mineral Rights held by Maximus Resources Limited. Essential Metals Limited 20% free carried interest in nickel sulphide minerals.
11	Larkinville West JV Agreement: Maximus Resources Limited 75%, Essential Metals Limited 25% free carried interest, except nickel rights which are subject to the Wattle Dam JV.
12	Maggie Hays Lake JV Agreement: Poseidon Nickel Limited 80%, Essential Metals Limited 20% & free carried interest to commencement of mining.

2.	Tenements acquired during the Quarter (Consolidated Basis)
	None.
3.	Tenements sold, relinquished, reduced or lapsed during the Quarter (Consolidated Basis)

Tenements applied for during the Quarter (Consolidated Basis)
 M15/1896.

None.

Appendix 5B

Mining exploration entity or oil and gas exploration entity quarterly cash flow report

Name of entity

ESSENTIAL METALS LIMITED		
ABN	Quarter ended ("current quarter")	
44 103 423 981	30 September 2022	

Con	solidated statement of cash flows	Current quarter \$A'000	Year to date (3 months) \$A'000
1.	Cash flows from operating activities		
1.1	Receipts from customers	-	-
1.2	Payments for		
	(a) exploration & evaluation	-	-
	(b) development	-	-
	(c) production	-	-
	(d) royalties	-	-
	(e) staff costs	(314)	(314)
	(f) administration and corporate costs	(269)	(269)
1.3	Dividends received (see note 3)	-	-
1.4	Interest received	19	19
1.5	Interest and other costs of finance paid	-	-
1.6	Income taxes paid	-	-
1.7	Government grants and tax incentives	-	-
1.8	Other (provide details if material)	11	11
1.9	Net cash from / (used in) operating activities	(553)	(553)

2.	Ca	sh flows from investing activities		
2.1	Pa	yments to acquire or for:		
	(a)	entities	-	-
	(b)	tenements	-	-
	(c)	property, plant and equipment	-	-
	(d)	exploration & evaluation	(2,089)	(2,089)
	(e)	investments	-	-
	(f)	other non-current assets	-	-

ASX Listing Rules Appendix 5B (17/07/20)

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (3 months) \$A'000
2.2	Proceeds from the disposal of:		
	(a) entities	-	-
	(b) tenements	-	-
	(c) property, plant and equipment	-	-
	(d) investments	-	-
	(e) other non-current assets	-	-
2.3	Cash flows from loans to other entities	-	-
2.4	Dividends received (see note 3)	-	-
2.5	Other (provide details if material)	-	-
2.6	Net cash from / (used in) investing activities	(2,089)	(2,089)

3.	Cash flows from financing activities		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)	-	-
3.2	Proceeds from issue of convertible debt securities	-	-
3.3	Proceeds from exercise of options	260	260
3.4	Transaction costs related to issues of equity securities or convertible debt securities	-	-
3.5	Proceeds from borrowings	-	-
3.6	Repayment of borrowings	-	-
3.7	Transaction costs related to loans and borrowings	-	-
3.8	Dividends paid	-	-
3.9	Other (provide details if material)	-	-
3.10	Net cash from / (used in) financing activities	260	260

4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	10,527	10,527
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(533)	(533)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(2,089)	(2,089)
4.4	Net cash from / (used in) financing activities (item 3.10 above)	260	260

ASX Listing Rules Appendix 5B (17/07/20) + See chapter 19 of the ASX Listing Rules for defined terms.

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (3 months) \$A'000
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	Cash and cash equivalents at end of period	8,146	8,146

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	3,146	5,527
5.2	Call deposits	5,000	5,000
5.3	Bank overdrafts	-	-
5.4	Other (provide details)	-	-
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	8,146	10,527

6.	Payments to related parties of the entity and their associates	Current quarter \$A'000
6.1	Aggregate amount of payments to related parties and their associates included in item 1	149
6.2	Aggregate amount of payments to related parties and their associates included in item 2	-
	if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must includ nation for, such payments.	le a description of, and an

7.	Financing facilities Note: the term "facility" includes all forms of financing arrangements available to the entity. Add notes as necessary for an understanding of the sources of finance available to the entity.	Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000	
7.1	Loan facilities	-	-	
7.2	Credit standby arrangements			
7.3	Other (please specify)	-	-	
7.4	Total financing facilities	-	-	
7.5	Unused financing facilities available at quarter end			
7.6	Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well.			
	N/A			

8.	Estim	ated cash available for future operating activities	\$A'000
8.1	Net cash from / (used in) operating activities (item 1.9)		(553)
8.2	(Payments for exploration & evaluation classified as investing activities) (item 2.1(d))		(2,089)
8.3	Total r	elevant outgoings (item 8.1 + item 8.2)	(2,642)
8.4	Cash and cash equivalents at quarter end (item 4.6)		8,146
8.5	Unused finance facilities available at quarter end (item 7.5)		-
8.6	Total available funding (item 8.4 + item 8.5)		8,146
8.7	Estimated quarters of funding available (item 8.6 divided by item 8.3)		3.08
	Note: if the entity has reported positive relevant outgoings (ie a net cash inflow) in item 8.3, answer item 8.7 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.7.		
8.8	If item 8.7 is less than 2 quarters, please provide answers to the following questions:		
	8.8.1 Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?		
	Answer: N/A		
	8.8.2 Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?		
	Answer: N/A		
	8.8.3 Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?		
	Answer: N/A		
	Note: where item 8.7 is less than 2 quarters, all of questions 8.8.1, 8.8.2 and 8.8.3 above must be answered.		

Compliance statement

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

Date: 31 October 2022

Authorised by: The Board of Directors

(Name of body or officer authorising release - see note 4)

Notes

- 1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
- 2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, AASB 6: Exploration for and Evaluation of Mineral Resources and AASB 107: Statement of Cash Flows apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.
- 3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
- 4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee eg Audit and Risk Committee]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
- 5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's Corporate Governance Principles and Recommendations, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.