18 July 2024

## Godolphin to present at Federation of Indian Chambers of Commerce \& Industry webinar in partnership with NSW Government

Godolphin Resources Limited (ASX: GRL) ("Godolphin" or the "Company") is pleased to advise that it has been selected to present at a webinar event today hosted by the Federation of Indian Chambers of Commerce \& Industry ("FICCI"), in partnership with the NSW Government.

Titled 'Critical Minerals Investment Opportunities in NSW', the event will include a keynote address from Dr Veena Kumari, Joint Secretary of the Ministry of Mines for the Government of India.

Godolphin is one of four ASX listed companies selected to present at the webinar, which will include introductions from:

- Malini Dutt, Trade \& Investment Commissioner India, from Investment NSW, and
- Pankaj Satija, Head of Critical Mineral Initiatives and Co-Chair of the FICCI Mining Committee.

Selection in the initiative follows the Company's ongoing work alongside the NSW Government's Department of NSW Resources and Austrade, (Australian Trade and Investment Commission) to promote Godolphin's 100\% owned Narraburra Rare Earths Project.

The webinar will be broadcast to a list of registered attendees comprised of India-based sophisticated investors and industry representatives, as part of targeted efforts by policymakers in India and Australia to build strategic networks connecting Indian capital markets with the NSW resources industry.

The NSW Government will be represented by Tony Linnane, Executive Director Strategy, Performance and Industry Development at NSW Resources. Following the company presentations, closing remarks will be presented by Andrew Carter, Investment Commissioner at Austrade for South-East Asia and Arpna Gupta, Additional Director \& Head - Mines, Metals, Hydrocarbons and Energy at FICCI.

A copy of Godolphin's webinar presentation for today's event is attached.
<<ENDS>>
This market announcement has been authorised for release to the market by the Board of Godolphin Resources Limited.
For further information regarding Godolphin, please visit https://godolphinresources.com.au/ or contact:
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## About Godolphin Resources

Godolphin Resources (ASX: GRL) is an ASX listed resources company, with 100\% controlled Australian-based projects in the Lachlan Fold Belt ("LFB") NSW, a world-class gold-copper province. A strategic focus on critical minerals and green metals through ongoing exploration and development in central west NSW. Currently the Company's tenements cover over $3,500 \mathrm{~km}^{2}$ of highly prospective ground focussed on the Lachlan Fold Belt, a highly regarded providence for the discovery of Rare Earth Elements, Copper, Gold and Base Metal deposits. Additional prospectivity attributes of GRL tenure include the McPhillamys gold hosting Godolphin Fault and the Boda gold-copper hosting Molong Volcanic Belt.

Godolphin is exploring for clay hosted REE's in both NSW and QLD, structurally hosted \& epithermal gold, base-metal deposits and large, gold-copper Cadia style porphyry deposits in the Lachlan Fold Belt. It is pleasing to be continuing a focus of exploration efforts to define new targets for unlocking the potential of its East Lachlan tenement holdings and increasing the mineral resources of its advanced Lewis Ponds Gold \& Base Metals Project and Yeoval Copper Gold Project. Reinvigoration of exploration efforts across the tenement package is the key to discovery and represents a transformational stage for the Company and its shareholders.

COMPLIANCE STATEMENT The information in this report that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Ms Jeneta Owens, a Competent Person who is a Member of the Australian Institute of Geoscientists. Ms Owens is the Managing Director, full-time employee, Shareholder and Option holder of Godolphin Resources Limited. Ms Owens 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. Ms Owens consents to the inclusion in the report of the matters based on her information in the form and context in which it appears.

Information in this announcement is extracted from reports lodged as market announcements referred to above and available on the Company's website www.godolphinresources.com.au. The Company confirms that it is not aware of any new information that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Persons' findings are presented have not been materially modified from the original market announcements.

## FEOdolphin

## Narraburra Rare Earth Project

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18 July 2024 | A S X: GRL
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FOCUSED ON BECOMING AN INTEGRAL PRODUCERIN AUSTRALIA'SCRITICAL MINERALS AND FUTURE METALS SUPPLY CHAIN

RARE EARTH ELEMENTS I COPPER-GOLD-BASEMETALS

## DISCLAIMER AND COMPETENT PERSONS STATEMENT

GOMPETENT PERSONS STATEMENT

Jorc INFORMATION The Presentation has been prepared with reference to public reports made by Ardea Resources Limited (Ardea) (ASX:ARL) and Godolphin Resources Limited (Godolphin or Company) (ASX:GRL). Notably, the Presentation includes information relating to the:
The Presentation has been prepared with reference to public reports made by Ardea Resources Limited (Ardea) (ASX:ARL) and Godolphin Resources Limited (Godolphin or Co
Mount Aubrey Resource Update, reported by Ardea in ASX announcement 28 August 2019 in accordance with JORC 2012 (Mount Aubrey Resource). Competent Person: Johan Lambrechts
Lewis Ponds Resource Update, reported by Godolphin Resources Ltd in ASX announcement 2 February 2021 in accordance with ORC 2012 (Lewis Ponds Resource). Competent Persons: Ro
ewis Ponds Resource Update, reported by Godolphin Resources Ltd in ASX announcement 2 February 2021 in accordance with JORC 2012 (Lewis Ponds Resource). Competent Persons: Ross Corben \& Johan Lambrechts
arraburra - Maiden Mineral Resource Estimate. AS announced on 19 April 2023 (ASX: GRL) the MRE was classified as 46 .7Mt Indicated and 47.4mt Inferred in accordance with J ORC 2012 (Narraburra Resource) Competent


Godolphin's Reporting of the Estimates
 nanner consistent with the JORC Code 2012. At present, Godolphin has not completed its own assessment of the reliability of the Estimates and cautions potential investors in Godolphin against relying on the Estimates. Information relating to the work programs used to
source Update, reported Dy Ardea in ASX announcement 15 August 2019 in accordance with JORC 2012 ( (eoval Resource): Mount Aubrey Resource Update, reported by Ardea in ASX announcement 28 August 2019 in accordance with JORC 2012 (Mount Aubrey Resource).

 t nothing has come to the attention of Godolphin that causes it to question the accuracy or reliability of the former owner's estimates. Godolphin has not independently validated the Estimates and therefore is not to be regarded as reporting adopting or endorsing the Estimates.

## ISCLAIMER

CAUTIONARY NOTE REGARDING FORWARD LOOKING INFORMATION
This Australian Securities Exchange (ASX) rel






 ward-looking information contained herein to reflect new events or circumstances, except as may be required by law.
securities exchange, regulation services provider, securities commission or other regulatory authority has approved or
securites exchange, reguation services provider, se.
 nal market announcements.


## Godolphin

| Major shareholders | \% held |
| :--- | :---: |
| American Rare Earths Limited (ASX:ARR) | $12.15 \%$ |
| Brian O'Shannassy \& Associates | $5.06 \%$ |
| Ian Buchhorn \& Associates | $4.99 \%$ |
| Saba Nominees Pty Ltd | $3.12 \%$ |
| Orange Minerals NL (ASX:OMX) | $2.96 \%$ |
| HSBC Custody Nominees (Australia) Ltd | $2.82 \%$ |
| Top 20 | $\mathbf{4 4 . 0 5 \%}$ |


| Board of Directors |  |
| :--- | ---: |
| Non-Executive Chairman | Mr Jeremy Read |
| Managing Director | Ms Jeneta Owens |
| Non-Executive Director | Dr Christopher Hartley |
| Non-Executive Director | Ms Amanda Sparks |

## HNVESTMENT HIGHLIGHTS

Focused on the development of projects containing critical minerals and future metals across an established tenement suite in NSW


Focused on development of Narraburra following recent appointment of Ausenco to lead scoping study with ongoing exploration initiatives planned

Maiden JORC 2012 MRE* at Narraburra Rare Earth project to 94.9 Mt @ 739 ppm including high grade core of 20 Mt @ 1,079 TREO using a 600 ppm cut off

Exceptional REE recoveries from initial testing with ANSTO of 80\% - 95\% extraction of key
magnet REEs (Nd, Pr, Tb, Dy)

Recently secured exploration licenses of Cambrai and Trungley directly adjacent Narraburra
provide optionality and control of area


Copper and gold projects in the highly prospective Lachlan Fold Belt ready for drilling - Current resources inventory of 519 koz gold


A multi-discovery strategy with a pipeline of rare earth projects with low capital entry costs and significant potential upside


Underpinned by an experienced Board and management team with intimate area knowledge and a track record of project development

## NDPR PRICES STRENGTHENING FROM 12-MONTH LOWS

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PrNd Misch Metal (\$/kg) - 12 months


PrNd Misch Metal (\$/kg) - 2 month
Source: https://global-reia.org/

## DDEMAND FOR MAGNET REE

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74\% of the current REE Market Value -is from the MREE (Pr, Nd, Tb, Dy). Forecast to grow to $90 \%$ by 2033

- Numerous applications such as glass, catalysts, batteries and magnets
. Forecast growth of (MREEs) which are used in electric (Vehicles/ wind turbines/ mobile phones etc
- As of 2022 MREEs account for ~26\% of Market Volume BUJ IMPORTANTLY represents 74\% of Market Value
- Demand forecast to grow at $\sim 4 \%$ / year until 2033
- Light Rare Earth Elements (LREE)

Cheaper (\$US):

- La = ~\$2/kg
- The Twins (Nd and Pr) $=\sim \$ 100 / \mathrm{kg}$

Heavy Rare Earths (HREEs)


Expensive (\$US)
$\int \begin{aligned} & \mathrm{Tb}=\$ 1700 / \mathrm{kg} \text {, } \\ & \mathrm{Dy}=\sim \$ 440 / \mathrm{kg}\end{aligned}$
Dy $=\sim \$ 440 / \mathrm{kg}$

## Godolphin

## SIGNIFICANT FOOTHOLD IN NSW

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A STABLE JURISDICTION
Project suite:
- Narraburra (100%) - Rare earth elements (REE)
Cambrai (100%) - REE, tin and copper
- Trungley (100%) - REE
- Yeoval (100%) - Copper and gold
    - Copper Hill East (100%) - Copper and gold
    - Gundagai North & South (100%) - Gold
GRL MAINTAINS ONE OF THE LARGEST
EXPLORATION LANDHOLDINGS IN THE
LACHLAN FOLD BELT AND WITH OVER
3,500KM}\mp@subsup{}{2}{2}\mathrm{ OF HIGHLY PROSPECTIVE
TENURE ACROSS NSW
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## NARRABURRA RARE EARTH DISTRIBUTION




Diagnostic leach tests being conducted in the ANSTO Minerals Leach L-aboratory, Sydney, NSW

## NARRABURRA

## LOW COST DEVELOPMENT POTENTIAL

Outstanding metallurgy results point to Narraburra's low-cost development \& processing potential
Testing completed with Australian Nuclear Science and Technology Organisation (ANSTO)
Phase 1: 2023 delivered 92\% recovery of key magnet REEs (Pr, Nd, Tb, Dy) with best results of Nd 94\% and Pr 90\%
Phase 2: 2024 of comprehensive leach testing program has also delivered exceptional REE recoveries:

- 80\% - 95\% extraction of key magnet REEs (Nd, Pr, Tb, Dy) with best results of Nd 96\%, Pr 92\%, Tb 91\% and Dy 93\%
- Size fraction results show the REEs, including the magnet REEs, are concentrated in the fine size fractions
- -38 $\mu \mathrm{m}$ fraction showing an average increase that doubles the TREO grade
- Suggests simple, low cost screening of the ore may significantly enhance the grade for processing of the REE mineralisation
- Results will inform the 2024 works program, which may include additional drilling to further define the existing Mineral Resources Estimate and ongoing metallurgical tests
${ }^{2}$ refer ASX: GRL announcement: 19 February 2024


Plan showing correlation of highest SWIR, TIR and TREO values at the kaolin - plagioclase transition zone

## NARRABURRA

## CLAY HOSTED RARE EARTH MINERALISATION

Hylogger ${ }^{3}$ Spectroscopic logging of all diamond drill core was undertaken by the Geological Survey of NSW at its WB Clarke Geoscience Centre at Londonderry

- Known association of REE mineralisation with Kaolin (Clay) worldwide
- REE distribution is highest in the spectro-mineralised domains that represent the base of the most intense weathering.
- This horizon corresponding to the kaolinite clay zone with highest REE concentrations
QEMSCAN ${ }^{3}$ (an automated mineralogical analysis technique) mineralogy completed with Australian Nuclear Science and Technology Organisation (ANSTO)
- The model mineralogy results indicate that the most abundant REEbearing minerals include lanthanite-Nd and microcrystalline REEs
- Liberation statistics indicate that most abundant REE-bearing minerals are moderately liberated, confirming the ready leachability of the kaolinite clay zone - unlocking additional development and processing opportunities


## ADDITIONAL UPSIDE THROUGH 100\%-OWNED REE PROJECTS

Crungley, New South Wales - EL9628
. Surrounds Narraburra to the north, east and south
Contains Boginderra granite, an A-type granite of the Narraburra suite containing REE targets already identified from historical rock chip sampling

Cambrai, New South Wales - EL9601

(9)
Also adjacent to the Narraburra REE Project
Hosts Thanowring granite, a Devonian aged A-type granite of the Narraburra suite which has never been tested for REE

## Bingara, New South Wales - EL9506

Located in the New England region of northern NSW,
Key indicators included the potential for similar Jurassic
peralkaline rock units, host to the Toongi deposit
High radiometric responses associated with peralkaline rocks

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## NARRABURRA

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MULTIPLE NEW RARE EARTH EXPLORATION TARGETS IDENTIFIED AT NARRABURRA WITH POTENTIAL TO SIGNIFICANTLY UP SCALE THE PROJECT

- Exploration targets with potential to expand the existing JORC 2012 Mineral Resource Estimate, have been identified at Godolphin's 100\% owned Narraburra Rare Earth Elements (REE) Project
- Reprocessing and interpretation of regional aeromagnetic data has identified four high priority target areas for follow-up exploration, as follows:
- Targets 1 and 2: Areas with the potential to expand the existing Mineral Resource Estimate
- Target 3: $2 \mathrm{~km} \times 2 \mathrm{~km}$ area of likely granite undercover, adjacent to the Narraburra REE Deposit and with the ability to host REE mineralisation above the target granite
- Target 4: Narraburra REE deposit analogue - 7km long exploration target corridor mapped along the newly interpreted Narraburra Fault Zone
- On ground exploration will commence immediately to systematically assess these targets and develop follow-up drilling programs which will be undertaken in the coming months.


## Godolphin

## 2024 EXPLORATION TIMELINE - A DISTINCT FOCUS ON REE

## O

COMMENCEMENT
OF NARRABURRA MINING
(COPING STUDY (a)


TRUNGLEY SURFACE GEOCHEMICAL PROGRAMS

NARRABURA
METALLURGICAL TEST WORK BEGINS

NARRABURRA MINERALOGY METALLURGICAL RESULTS

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N URRABURRA
MINING STUDY NURRABURRA
PHASE 1
RESULTS
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UPDATE TO
MRE
COMMENCES

CAMBRAI \& TRUNGLEY GEOCHEMICAL RESULTS

AIRCORE DRILLING OF GEOCHEMICAL ANOMALIES

AlRCORE DRILLING RESULTS

REVIEW \&
FOLLOW-UP

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## New Gold-Copper Soil Anomaly Defined At Spring Creek Prospect

(1)A new gold - copper - arsenic in soil anomaly has been defined along a splay of the Narangal Thrust fault, on the Copper Hill East Project

Anomaly was defined from assay results obtained from a soil orientation line, conducted to determine the best method of following up high grade grab samples - included results of up to $2.80 \mathrm{~g} / \mathrm{t}$ gold and $0.47 \%$ copper

Detailed soil survey now underway to test for a bedrock strike continuation to the north and south of the defined anomaly soil survey will inform a potential drill program

Soil survey expected to be completed in June 2024 with the assay results early in Q3 CY2024


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## ONVESTMENT SUMMARY




## APPENDIX 1

COPPER, GOLD AND BASE METALS PROJECTS

## Lewis Ponds:

- JORC 2012 Minera Resource Estimate of 6.20 Mt at 2.0g/t gold, $80 \mathrm{~g} / \mathrm{t}$ silver, $2.7 \%$ zinc, $1.6 \%$ lead and $0.2 \%$ copper
Resource is part of a larger mineral system extending over 9km SE with extensive gold, copper and base metal workings


## Yeoval \& Goodrich:

Existing JORC 2012 Mineral Resource Estimate of 12.8 Mt at 0.38\% copper, 0.14 g/t gold, 2.2 g/t silver \& 120 ppm molybdenum Typical porphyry Cu-Au style mineralisation at Yeoval. Large skarn alteration system identified - Vaughn's Ridge Copper Hill East (CHE):
Copper and gold project hosts Ordovician Molong Volcanic Belt rocks, intrusive rocks same age as Cadia and Boda
Gundagai:
Historical gold mining area with substantial historical workings



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## APPENDIX 2

## INCREASING THE LEWIS <br> PONDS OPPORTUNITY

Spicers Lode open to the north - no drilling

Large gaps within the resource - infill drilling

Untested Downhole EM off hole conductors - not tested

Lewis Ponds Copper rich south - no modern follow-up

Re-interpretation of soil geochemical data confirms significant gold and multi-element anomalism similar to the nearby two-million-ounce McPhillamys Gold Deposit

## APPENDIX 2

INCREASING THE LEWIS PONDS OPPORTUNITY

Results from an orientated soil survey north of known mineralisation at Lewis Ponds identified areas of elevated gold in soils, co-incident with VTEM
anomalies with a similar signature to the main Mineralised lodes at Lewis Ponds - direct drill targets
A downhole electromagnetic survey at Lewis Ponds identified three off hole conductors providing drill targets with the potential to extend the currently defined Mineral Resource - drill targets

An additional mineralised lens, the Quarry Lode is NW of the MRE, drilling in 2021 has confirmed
mineralisation including gold and has been intersected at depth in previous drilling, upper levels and northern extent untested.
(T)

Testing highlights significant potential for McPhillamys Style gold deposit


## APPENDIX 2: UNLOCKING VALUE AT LEWIS PONDS




## Gadolphin

## APPENDIX 4

COPPER HILLEAST (CHE) COPPER AND GOLD PROJECT
. Project located in the same volcanic
sequence as Boda ( 50 km north) and CadiaRidgeway ( 50 km south)

- Two drilling phases completed in 2020
- Preliminary indications from work include:
- Copper and gold in soils anomaly
- Minimum of 7 km strike length
- Strong magnetic anomaly in north with copper gold anomaly at Turrawonga Prospect
- Native copper in surface rocks with strong copper in soil anomaly at Lyons Prospect

Images: Native copper from surface rocks Copper Hill ast refer ASX:GRL announcement 7 May 2020.



## APPENDIX 4

## Godolphin

## CHE TURRAWONGA - COPPER GOLD

PORPHYRY POTENTIAL

- Prospect hosts a magnetic anomaly with coincident Au/Cu anomaly-tested with four RC drill holes, two with diamond tails
- Drill holes intersected:
- Multiple intrusions
- Zones of strong magnetite and pyrite
- Chlorite-epidote-albite alteration
- Variably disseminated chalcopyrite and occasional bornite
- MIMDAS survey completed, several resistivity lows identified
- All characteristic of an alteration zone periphery to porphyry-related gold-copper mineralisation
- A trace element geochemistry study was completed, sodic alteration identified at Turrawonga
- Petrography and age dating of intrusive rocks highlight that rocks are the same age as porphyry intrusions at world-class Cadia copper gold mine, Copper Hill Deposit and Boda Project

Previous results included:

- 32m @ 0.29g/t gold \& 0.13\% Cu in CHERC012
- 30m @ 0.64g/t gold \& $0.04 \% \mathrm{Cu}$ in CHERCO13


## Results provide good

 foundation for additional exploration activities

