



ILUKA



Aerial Image of the Eneabba Phase 2 Flotation Plant Under Construction

Mid-West Newsletter – June 2022

Welcome to the June 2022 Iluka Resources update for the Mid-West.

→ Eneabba Rare Earths Refinery Project Update

Phase 3 Commencement

Building upon Phases 1 and 2 Iluka has commenced Phase 3 of Eneabba Rare Earth Refinery Project (the Project) to deliver a strategic hub for the downstream processing of Australia's rare earth resources at Eneabba, Western Australia. The refinery will produce the high value rare earth oxides neodymium, praseodymium, dysprosium and terbium. These are critical inputs across a range of industries and technologies including electric vehicles, sustainable energy, advanced electronics, medical and defence applications.

Project Ownership

Eneabba is the highest grade rare earths operation globally. The refinery will be capable of processing rare earth feedstocks sourced from both Iluka's portfolio and from a range of potential third party concentrate suppliers with minimal environmental impacts. Iluka's close collaboration with the Australian Government reflects the alignment of the company's commercial objectives for its rare earths business with the Commonwealth's Critical Minerals Strategy. Phase 3 will be owned and operated by a wholly-owned Special Purpose Entity called Iluka Rare Earths Pty Ltd. The construction and commissioning of Phase 3 is being funded via a risk sharing arrangement with the Australian

Government which includes a \$1.25 billion non-recourse loan to Iluka.

Project Opportunities

Iluka is actively working with stakeholders to identify partnership and enterprise opportunities with regional stakeholders relating to the refinery, worker accommodation and across the various supporting services needed for ongoing operations. One of the methods being used to achieve regional partnership and enterprise opportunities is a requirement for the Engineering Procurement Construction Management (EPCM) Contractor to provide a 'first pass' for local people, businesses and Aboriginal participation in the Project as appropriate and available from the region. The Project is expected to create up to 500 construction jobs and then up to 300 operational jobs with first production anticipated to commence in late 2025. Beyond the production of rare earth oxides, the refinery also provides a foundation for potential future value chain opportunities being established in the region. For further information on the Project please visit and subscribe to updates at iluka.com/operations-resource-development/engagement-hub

→ Sustainability is central to everything we do – Cataby solar energy investigation.

The mineral sands and rare earths produced by Iluka are used in a range of sustainable development and renewable energy applications, including solar panels and wind turbines. The installation of renewable energy infrastructure at the company's mine sites sees these products come full circle.

The engineering team at Cataby are progressing a business case for a solar installation at the mine. Options being considered include the construction of a 9MW solar farm; and establishing a long-term offtake agreement with a solar developer.

Cataby represents anywhere from 60 to 70% of Iluka's annual Western Australian power consumption. The high power usage is mostly due to the distance that product is pumped, with distances upwards of 12 kilometres from pit to processing.

→ Cockatoo monitoring research shows signs of success

As a part of our commitment to minimising impacts on the environment, Iluka has funded environmental research led by Murdoch University, to track the movement of female breeding birds at Cataby.

The research involves utilising GPS tracking and banding to monitor the health of the birds. By the end of 2021, cockatoo breeding populations at Cataby showed signs of success resulting in 12 nests and 13 chicks. Murdoch University will continue to work with us to visit and track the flock at Cataby. We are excited to continue monitoring the birds and to apply the information gained to help with the management and protection of this magnificent endangered species.



The Murdoch University Black Cockatoo Conservation Management Project Team

→ **From residue to revenue - Iluka is generating important production and revenue from products that were once considered 'waste'.**



In 2012, Narngulu constructed a Mobile Processing Unit (MPU) to recover zircon from the plant's tailings. Since then, the MPU has generated a profitable income stream, while also reducing our closure and rehabilitation liability.

The Narngulu mineral separation plant (MSP) produces zircon, rutile and ilmenite products. Processing heavy mineral concentrate (HMC) from Jacinth-Ambrosia in South Australia and non-magnetic material from Cataby, the Narngulu MSP is one of the largest mineral separation facilities globally.

Throughout the plant's processing activities there are by-product (or tailings) streams which contain material unable to be recovered through the main plant. These tailings are stockpiled on site and processed further by the MPU through a simple spiral separation circuit.

The MPU produces zircon-in-concentrate (ZiC), which is combined with chemical grade zircon, another by-product stream that is also produced at Narngulu. This product is sent to off-shore processing facilities to produce a lower-grade zircon, used in lower grade ceramics and for zircon chemicals.

→ **Iluka & UWA are working together to assist schools and create change in the Mid-West.**

The Thoughtful Schools Research Team from the University of Western Australia and Iluka Resources have jointly committed to a project that has the potential to be a powerful force for positive change in the regions. The Thoughtful Schools Program aims to help schools respond to the impact of adversity and trauma on emotion, behaviour, learning and social skills for children, young people and adults. The program will include training, coaching and personal development within school communities. Further information is available on the Thoughtful Schools website: thoughtfulschools.org.au

→ Iluka in the Community



Iluka's Cataby mine has partnered with the Shire of Dandaragan's Bushfire Brigade to install an emergency water supply in the Cataby area.

In 2019 during a bushfire event the need for additional permanent water supplies to help fight fires was raised by the local community fire brigade volunteers we work alongside with. To help protect local people, the environment and resources Iluka Cataby operations responded by installing a permanent water supply for fighting fires and other emergencies including vehicle accidents. We all hope the local bushfire brigade never have to use it but it is reassuring to know an additional permanent water supply is in the area if required.

Iluka donates \$25,000 to build nature playground at Dandaragan Primary School

As a part of Iluka's social investment strategy and working in collaboration with the School's P&C, the development of children and their motor skills was identified as an important priority. School staff recognised that senior students were missing a challenging play area and therefore the playground design encourages active play times and learning opportunities. The playground includes a net swing, a zipline and a large fort.



Redeveloping Coolangah Park

Iluka Resources is working with the Yued Noongar community to redevelop the local park for children in Moora. The park will be called the Coolangah Park, named after the Noongar word for 'kids'. This project involves a partnership between Iluka, Tronox, the Shire of Moora and Curtin University. The project is being managed by a community steering group that holds regular meetings to keep local people updated.

Iluka acknowledges the Traditional Owners of the Country on which we work and live and pay our respect to Elders past and present.



To find out more about Iluka's projects, you can reach us at:

Email: communities.support@iluka.com

Call our 24-hour community line on 1800 305 99

To subscribe to digital updates visit: iluka.com/operations-resource-development/engagement-hub

www.iluka.com