



## **WELCOME TO THE MAY 2022 ILUKA RESOURCES UPDATE FOR THE MURRAY BASIN**

### **Wimmera**

The Wimmera PFS recommenced October 2021 and is currently on track to conclude in late 2022. The PFS report will inform the decision by the Iluka Board on whether to progress into 12 month Definitive Feasibility Study (DFS). Technical development work on the zircon refining process continues. This will produce key information inputs for technical studies.



In April 2022 the Iluka Board approved the Final Investment Decision to build a fully integrated rare earths refinery at Iluka's Eneabba site in Western Australia. 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. Beyond the Eneabba stockpile, Iluka's Wimmera project could serve as long life rare earth concentrate feed source to the Eneabba refinery. Supplying Wimmera rare earth concentrate to Eneabba for production is now preferred.

Landowner consultation was held prior to a number of fieldwork programs that have been completed over the last few months, including for agricultural assessment (Q4 2021); Red Tailed Black Cockatoo survey (Q1 2022); drilling (Q2 2022); and cultural heritage assessment (Q2 2022).



The preferred mining method (dredge ore mining) has continued to be further refined through input of updated geotechnical assessment data derived from the 2022 diamond drilling program.

Key environmental work packages continue to be progressed, subject to the required level of project scope definition being available. These include assessments relating to ecology, agriculture, bushfire risk, historical heritage, noise and vibration, air quality and greenhouse gas, radiation, surface water and groundwater.



## Natimuk Agricultural Show – March 2022

Iluka staff again attended this year's Natimuk Agricultural Show (25<sup>th</sup> March 2022). The show was very well attended by the local community and it was a great opportunity to showcase a variety of information related to Iluka and its projects.

The centrepiece of our stall was information on the Wimmera project and its status in the planning phase. This along with the rehabilitation programs for the former Echo and Douglas mines were of significant interest to those that dropped in for discussion.

It was great to be the sponsor for the Poultry and Bakery sections of which the winning entries were very impressive!





## Euston

Through Q4 2021 and Q1 2022 the Euston field program was successfully concluded with all water bores, monitoring and re-injection bores drilled. Diamond drill cores and geological samples have been collected and analysed to help further understanding of the nature of the Euston deposits. Work is ongoing to compile and report on these findings and results which will inform technical decisions in Q3 and Q4 2022.

Baseline environmental studies were also conducted to gain a better understanding of Euston's surface water, air quality, flora & fauna, and to help inform Iluka's environmental approvals program, as well as input into a biodiversity offset study.

Areas of disturbance have now been rehabilitated.

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## Balranald

Iluka undertook a mining trial at its Balranald Project, about 60km from the Balranald township, over the second half of 2020.

The outcomes of trial confirmed the effectiveness of the underground mining method and validated key elements of the mining unit design.

Growing confidence in the application of the underground technology was a key factor in the Board's decision in August 2021 to approve the next phase of the project.



The mining trial site has been kept in care and maintenance. Iluka maintains a regular presence undertaking monitoring and inspections.

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## Land Management

The land team provide a support function to Iluka's rehabilitation and projects group. Land management involves working with landholders on a range of projects, typically related to agricultural production. The team works with leaseholders to improve agricultural productivity on rehabilitated land across all our sites. This includes establishing and maintaining agreements, and sourcing and interpreting data which provides feedback on the response of the land to particular management actions.

The 2021 cropping season commenced well with good early winter rains. Unfortunately the rainfall received throughout the second half of the winter growing season was poor, which resulted in average to below average crop yields.

Iluka completed trials growing tillage radish on the Kulwin TSF in 2021 to assess how this species assists in reducing compaction and improves nutrient recycling in soils. These trials have proven to be a great

success and the knowledge gained can be used in future revegetation programs. As of May 2022, there are 160 ha of tillage radish and vetch seed mix sown within rehabilitated areas.

The land team again undertook range of crop samples to understand the performance response of rehabilitated land to analogous (or neighbouring) non-mined areas. In addition to data received from harvest machinery and satellite imagery, the team also sources physical samples to measure crop yields, grain quality, biomass and soil health. The samples are taken from the field for analysis with specialist equipment and agronomists. Each year this data and information build a profile that over time, informs the overall rehabilitation story.

The collaboration and local knowledge provided by our participating landholders is an invaluable element in the rehabilitation process.



## Kulwin

All bulk rehabilitation earthworks at the Kulwin mine were completed in November 2021. Following the completion of earthworks, all of the completed areas have had their first crops sown.

A small amount of disturbance (2Ha) remains to be rehabilitated around a water storage dam.

Following the completion of rehabilitation earthworks, the Kulwin mine will move into an agricultural and environmental monitoring phase while we work towards achieving the approved completion criteria.

As part of the Regent Parrot Offset Management Plan, Greening Australia undertook roadside revegetation work in June 2021 within various roadside reserves outside of the Kulwin mine. Additional infill planting was also carried out within the Kulwin Bushland Reserve. Approximately 2,405 tubestock (consisting of native species of local provenance) were planted as part of this revegetation program.

Following completion of this planting program, Iluka has undertaken maintenance works to support these revegetation works, such as periodic watering of the newly planted tubestock.

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## Woornack, Rownack and Pirro

Earthworks at the Woornack, Rownack and Pirro (WRP) mines are largely complete with 88 hectares remaining to be completed. The final area to be rehabilitated consists of a mined pit containing stored ilmenite, a water storage facility and an access road to the mined pit. Rehabilitation of these areas is expected to be finished by 2025 and will progress following completion of ilmenite removal from pit.

Greening Australia were commissioned to undertake revegetation works within the mine disturbance area of the F1 Block (Unreserved Crown Land) at the WRP mine. This revegetation area is approximately 84Ha of land that has been returned to native vegetation, with the revegetation works completed in the first half of 2021.



Since the completion of the initial revegetation program, Iluka has undertaken maintenance works within the revegetated footprint. These maintenance works have primarily consisted of pest management and the periodic watering of tubestock. Revegetation works at the F1 Block are anticipated to be completed over a period of three years, dependent on how successfully the vegetation establishes over this time.

The first vegetation survey was completed in November 2021 following the execution of revegetation works. The survey found that native vegetation seeded were germinating, whilst tubestock plants and direct planting of mature grasses generally appeared to be in good condition. The consultants who completed the survey commented that it is likely that recent rains and favourable weather conditions resulted in successful germination from seeds.



*Germination of native species within a direct seeding line at the WRP F1 Block, April 2022*

It is anticipated that species richness at the revegetation site will improve over time, particularly with the favourable weather conditions experienced in recent months.

A follow-up vegetation survey was completed in April 2022 however the results of this survey have not yet been received.

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## Douglas

Rehabilitation earthworks at the Douglas mine continued in the last quarter of 2021 focusing on the reprofiling of tailings within Pit 22 in preparation for capping with overburden. Other autumn works included the placement of overburden, subsoil and subsequent topsoil into Pit 5; backfilling Pit 21 with overburden and the commencement of remediation works at Pit 10.



*Pit 21 backfilled to design surface, April 2022*

Environmental monitoring at the Douglas mine and Hamilton MSP is ongoing with results of monitoring programs reviewed as data is received. No trends of concern or exceedances have been identified for any of the monitoring events



undertaken over the past 6 months. Weed and pest animal control works are ongoing, including inspections within the offset properties associated with the Douglas mine.

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## Ouyen Mine Accommodation

The Ouyen camp was closed for accommodation in February 2022 and is currently being demolished. All buildings are being transported to Balranald where they will form part of Iluka's future accommodation camp for that project. The site is being remediated before being handed back to the land-owners, expected to take place in June.

Iluka's accommodation facilities located on the outskirts of Ouyen have been used through the construction, mining and rehabilitation phases of both the Kulwin and WRP mines. With cessation of rehabilitation earthworks in late 2021, the Ouyen camp will be surplus to our accommodation needs in the Ouyen region. It is intended that the camp buildings will be relocated to NSW for future use, allowing the Ouyen camp site to be rehabilitated in the first half of 2022 and returned to the landowner.



*Iluka's Ouyen camp accommodation site, Q1 2022*

Please contact us if you would like more information or to discuss any of the activities described above, or other Iluka activities with no current updates in the Murray Basin.

You can reach us by email at [communities.support@iluka.com](mailto:communities.support@iluka.com), online at [www.iluka.com/contact-us](http://www.iluka.com/contact-us), or by calling our 24-hour community line on 1800 305 993.

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