



Balranald Mineral Sands Project
2022 Annual Review
(1 January 2022 to 31 December 2022)

ANNUAL REVIEW DETAILS

Details of the operations are summarised in Table 1 below.

Table 1: Annual Review

Name of operation	Balranald Mineral Sands Project
Name of operator	Iluka Resources Limited
Development consent / project approval #	SSD – 5285
Name of holder of development consent / project approval	Iluka Resources Limited
Mining Lease #	ML 1736
Name of holder of mining lease	Iluka Resources Limited
Water licence #	WAL31101, WAL31102 & WAL44602
Name of holder of water licence	Iluka Resources Limited
RMP start date	12 August 2022
RMP end date	Continuing
Annual Review start date	01 January 2022
Annual Review end date	31 December 2022

I, Brendan Isaacs, certify that this audit report is a true and accurate record of the compliance status of the Balranald Mineral Sands Project for the period 1st January – 31st December 2022 and that I am authorised to make this statement on behalf of Iluka Resources.


Name of authorised reporting officer	Brendan Isaacs
Title of authorised reporting officer	Senior Environmental Specialist
Signature of authorised reporting officer	
Date	30 March 2023

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1 STATEMENT OF COMPLIANCE

This report is the 2022 Annual Review for the Balranald Mineral Sands Project (the 'Balranald Project' or the 'Project') as required by Condition 4, Schedule 5 of the development consent granted under the provisions of the NSW Environmental Planning and Assessment Act 1979 (EP&A Act). This report has been prepared using the *Annual Review Guideline Post-approval requirements for State significant mining developments* (DPE, October 2015)

A summary of the compliance status of the operation with the conditions of the relevant approvals is provided in Table 2.

Non-compliances are described in Table 3, noting that no non-compliance events occurred during the reporting period.

Table 2: Statement of compliance

Statutory approval	All conditions complied with
SSD Development consent (SSD-5285)	Yes
Mining Lease 1736	Yes
Environment Protection Licence 20795	Yes
EPBC Approval (2012/6509)	Yes

Table 3: Non-compliances

Relevant approval	Condition	Condition description	Compliance status	Comment	Where addressed in Annual Review
No non-compliances during the reporting period					

Compliance status key for Table 3

Risk level	Colour code	Description
High	Non-compliant	Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence
Medium	Non-compliant	Non-compliance with: <ul style="list-style-type: none"> potential for serious environmental consequences, but is unlikely to occur; or potential for moderate environmental consequences, but is likely to occur
Low	Non-compliant	Non-compliance with: <ul style="list-style-type: none"> potential for moderate environmental consequences, but is unlikely to occur; or potential for low environmental consequences, but is likely to occur
Administrative non-compliance	Non-compliant	Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions)

2 INTRODUCTION

2.1 Operations overview

Iluka have approval to develop a mineral sands mine in south-western New South Wales (NSW), known as the Balranald Mineral Sands Project (the Balranald Project). It includes construction, open-cut mining, primary processing, and rehabilitation of two linear mineral sand deposits, known as the West Balranald and Nepean deposits, located approximately 12 kilometres (km) and 66 km north-west of the town of Balranald, respectively. The Balranald Project also included undertaking an approved bulk sampling activity at the West Balranald deposit with the removal of up to 100,000 tonnes (t) of mineral ore to trial the use of underground mining methods.

Development consent (SSD-5285) was granted for the Balranald Project by a delegate of the NSW Minister for Planning under the Environment Planning and Assessment Act 1979 (EP&A Act) on 5 April 2016 (herein referred to as the consent). Approval was also granted under the EPBC Act (EPBC 2012/6509) by a delegate of the Commonwealth Minister for the Environment on 6 January 2017 (herein referred to as the Commonwealth approval).

Iluka has undertaken some of the approved bulk sampling activity involving the extraction of the mineral ore from depth using trial underground mining technology within the approved disturbance area of the West Balranald deposit.

The underground mining trials were conducted as follows:

- Trial 1 (T1) proof of concept undertaken between February and May 2015;
- Trial 2 (T2) commerciality test undertaken between May to October 2016;
- Trial 3 (T3) commerciality test undertaken between June to November 2020; and
- Site placed into care & maintenance from 18 November 2020.

The outcome of the bulk sampling activity confirmed the effectiveness of the underground mining method, validated key elements of the mining unit design and have been used to help guide future life-of-mine (LOM) operational conditions and inform the potential suitability (commerciality and potential reduced environmental impacts) of underground mining as an alternative method for resource extraction.

On 21 December 2022, Iluka were granted approval to modify the consent (MOD1) to expand the underground mining trial which includes an additional area of disturbance to the approved Balranald Project area to enable primary processing of the ore into heavy mineral concentrate (HMC) and transport of HMC offsite for secondary processing at Iluka's facilities in Victoria and/or Western Australia (WA). Figure 3 shows the underground mining trial approved by the MOD1 Consolidated Consent.

2.2 Environmental management responsibilities

Table 4 provides the details of the Iluka personnel with environmental management responsibilities during the reporting period.

Table 4: Environmental management responsibilities

Name	Role	Contact details
Philip Lazzari	Project Manager	Philip.Lazzari@iluka.com
Dave Wright	Owners Representative	Dave.Wright@iluka.com
Angela Bishop	Environment Manager	Angela.Bishop@iluka.com
Brendan Isaacs	Senior Environmental Specialist	Brendan.Isaacs@iluka.com

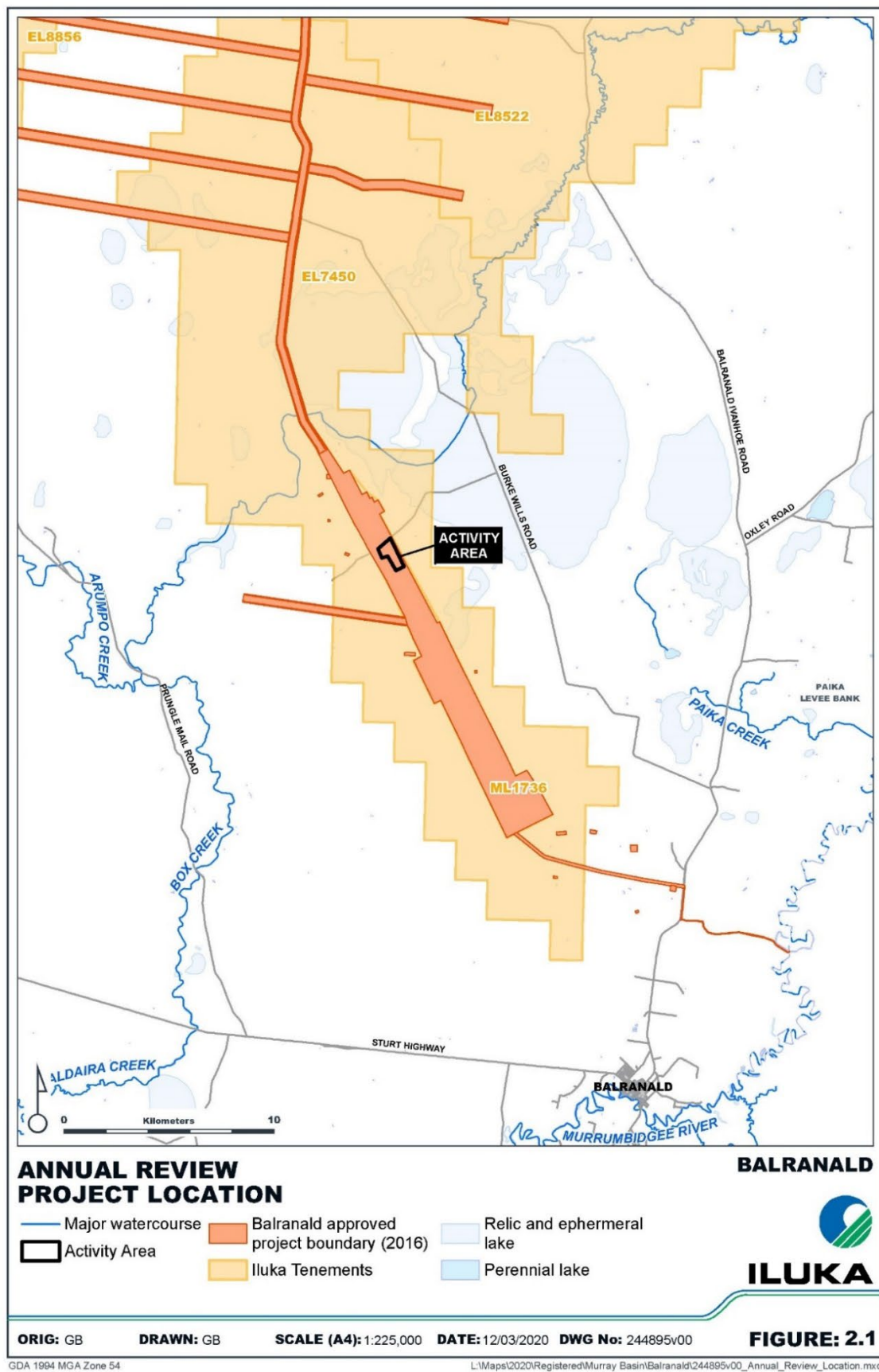


Figure 1: Project location and activity area

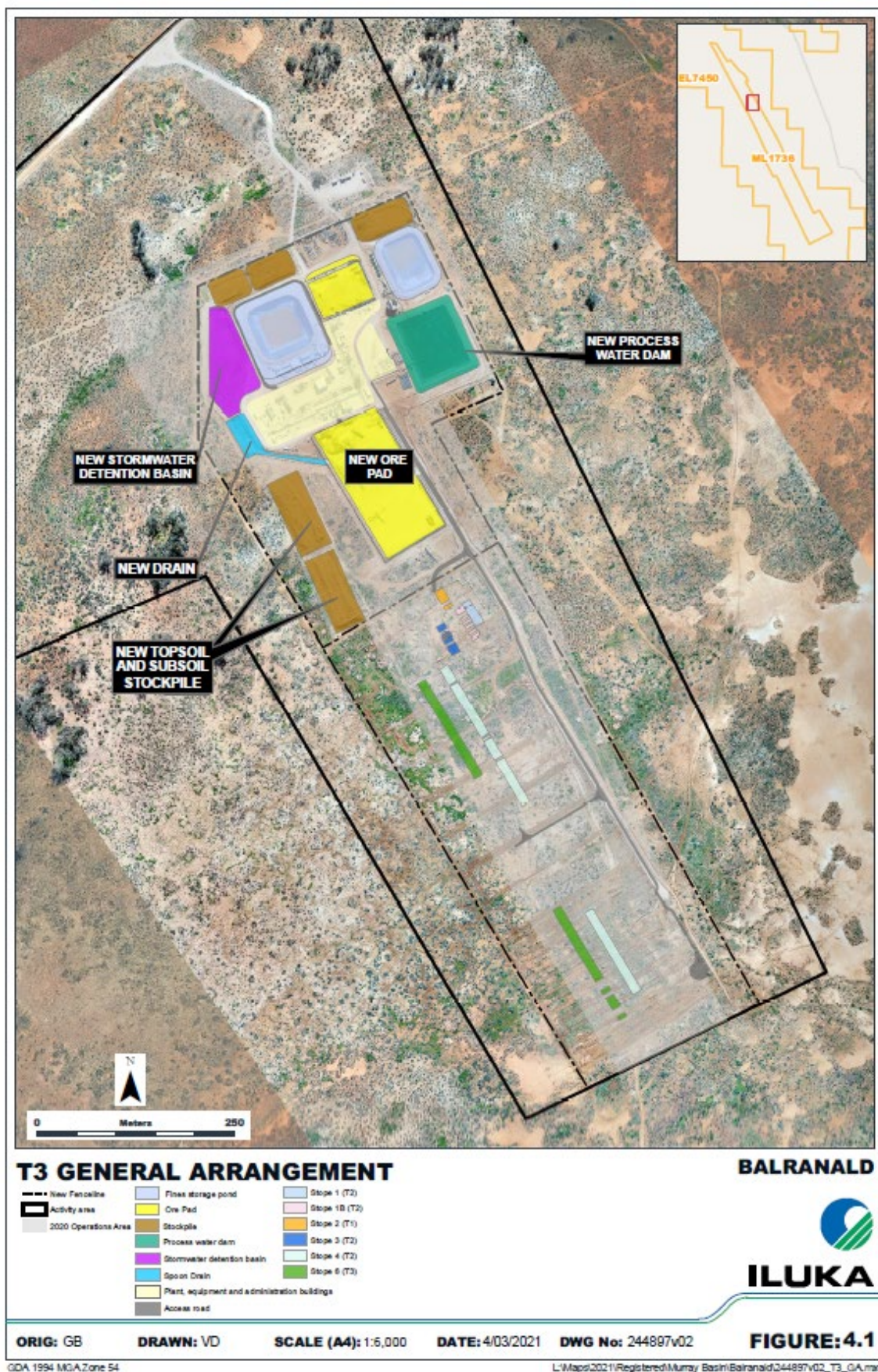


Figure 2: T3 trial site general arrangement

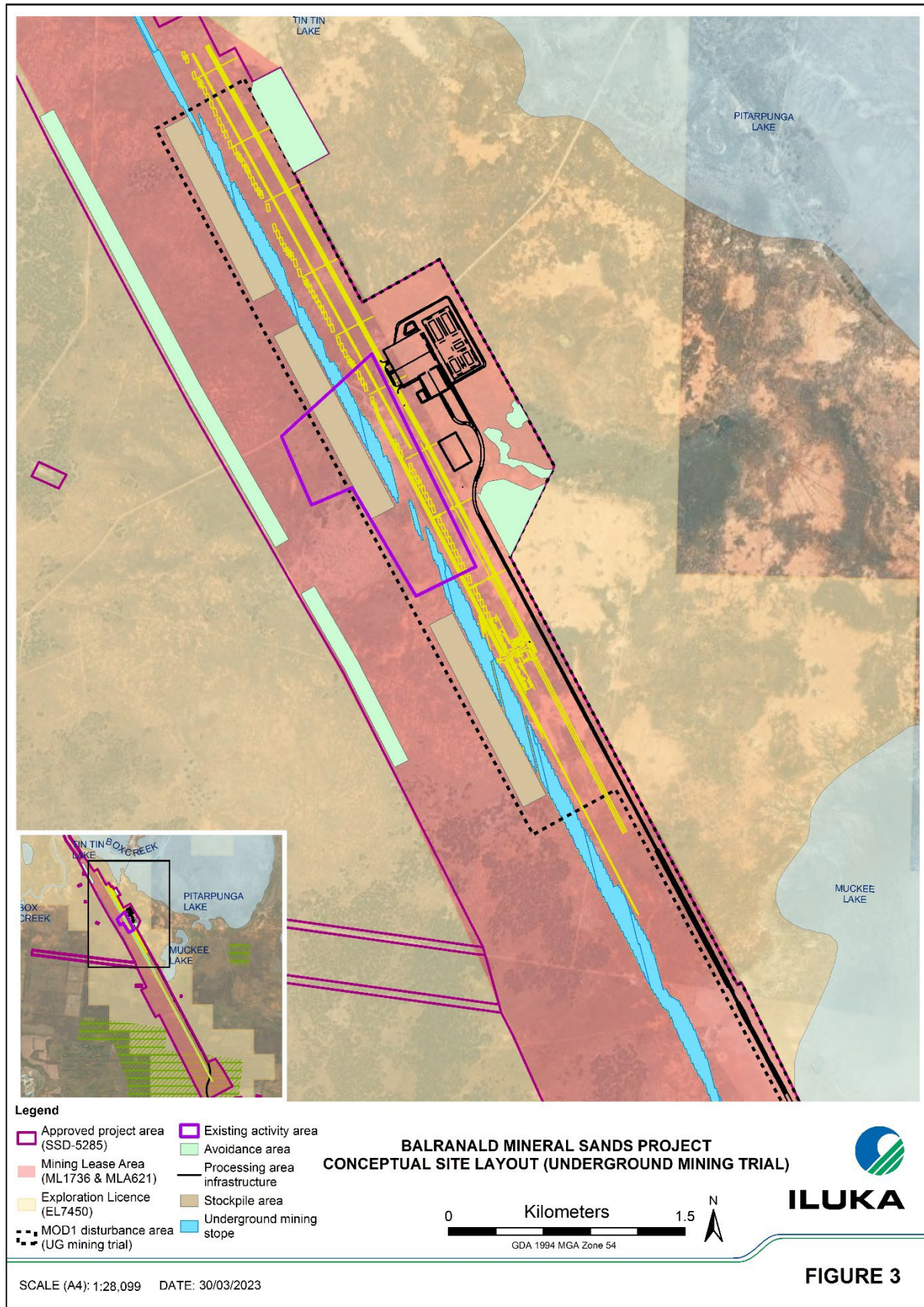


Figure 3: Approved modified project (MOD1) conceptual site layout

3 APPROVALS

The Balranald Project is a Level 1 mine and was assessed as a State Significant Development (SSD) under Part 4 of the EP&A Act.

The current approvals (including consents, authorisations, licenses and management plans) for the Project are summarised in Table 5 and Table 6 below.

Table 5: Current consents, authorizations and licenses

Type	Identification	Details
Development Consent	SSD-5285	Granted: 5 April 2016 Duration: 16 years
Development Consent Modification (MOD1)	SSD-5285 (MOD1)	Modified: 21 December 2022
EPBC Act Referral 2012/6509	EPBC 2012/6509	Granted: 6 January 2017 Duration: 1 January 2046
Mining Lease	ML1736	Granted: 9 May 2016 Duration: 21 years
Environment Protection Licence	EPL20795	Granted: June 2016 and renewed annually
Water Access Licence(s)	WAL31101 WAL31102 WAL44602	Total allocation volume – 2,000 ML

Table 6: Approved management plans during reporting period

Management Plan	Changes during reporting period
Environmental Management Plan (EMP): Bulk Sampling Activities- Care & Maintenance (18 January 2021, Version 5)	
Rehabilitation Management Plan (12 August 2022, Version 1)	New management plan developed in accordance with Division 3, Condition 10 of Mining Amendment (Standard Conditions of Mining Leases – Rehabilitation) Regulation 2021.
Balranald Project: Aboriginal Cultural Heritage Management Plan (ACHMP) (14 April 2016, Version 1)	
Groundwater Management Plan: Bulk Sampling Activities (29 June 2020, Version 6)	

4 OPERATIONS SUMMARY

4.1 Introduction

The T3 mining trial commenced in early August 2020 and was completed in early November 2020. The site was demobilised and put into care and maintenance in November 2020.

4.2 Site construction

No construction activities occurred during the reporting period.

4.3 Mining operations

No mining or processing operations occurred during the reporting period.

Table 7: Production summary (MOD1 Underground mining trial)

Material	Approved limit (specify source)	Previous reporting period (actual)	This reporting period (actual)	Next reporting period (forecast)
Overburden	No limit	0	0	0
Ore	No limit	0	0	0
Coarse reject	No limit	0	0	0
Fine reject (Tailings)	No limit	0	0	0
Product (HMC)	700,000 tonnes per annum (SSD-5285) MOD1	0	0	0

4.4 Exploration

No exploration activities were undertaken during the reporting period.

4.5 Decommissioning

Decommissioning commenced in 2020 with the disconnection of services including electrical and water reticulation. The site was placed into care and maintenance in November 2020.

Notification was provided to the Resources Regulator on 18 November 2020 regarding the suspension of mining operations.

The tails sand and Heavy Mineral Concentrate (HMC) stockpiles were covered with tarpaulins to prevent wind erosion and HMC migration, and are monitored regularly to ensure the tarpaulins remain effective.

The site is secured with an agricultural stock fence and locked gate. Exclusion zone signs are placed around the perimeter.

Site clean-up works during the reporting period included removal of contaminated soil by a licenced third-party contractor and off-site disposal to an authorised waste facility, recycling of scrap metal and general off-site waste disposal.

4.6 Next reporting period

Consolidated Development Consent (SSD-5285, MOD1) was approved on 21 December 2022 for the extension of the extended Underground Mining Trial.

Construction of the MOD1 extended Underground Mining Trial involves the initial vegetation clearing and soil stripping within the approved Balranald Project footprint, with the following infrastructure proposed to be located within this area:

- processing plant infrastructure, comprising WCP, flotation plant and WHIMS plant;
- product and tails pad(s);
- process water, potassium amyl xanthate (PAX) and fines dams;
- underground mining infrastructure;
- temporary stockpiles (topsoil, subsoil and overburden);
- timber stockpiles (felled vegetation);
- hardstand and laydown areas;
- site offices, warehousing, workshops, amenities and carparking;
- services and utilities infrastructure;
- fuel storage and dispensing area;
- telecommunications tower;
- mine access road and accommodation camp; and
- internal access tracks and roadways.

5 ACTIONS REQUIRED FROM PREVIOUS ANNUAL REVIEW

No actions required from the previous Annual Review.

Table 8: Actions required from previous Annual Review

Action required from previous Annual Review	Requested by	Action taken by the Operator	Where discussed in Annual Review
Nil			

6 ENVIRONMENTAL PERFORMANCE

The Environmental Management Plan (EMP) for the bulk sampling activities during care & maintenance was implemented during the reporting period. The EMP detailed the performance criteria (where relevant), mitigation and management and environmental performance monitoring (where relevant) during care & maintenance.

Table 9 provides a summary of the environmental performance monitoring completed during the reporting period.

Table 9: Environmental performance summary

Aspect	Approval criteria / EIS prediction	Performance during period	Trend / key management implications	Implemented/proposed management actions
Weeds	SSD-5285. Condition 17, Schedule 3 – Control weeds	Inspections for declared weeds were carried out. Identified occurrences of Bathurst Burr (<i>Xanthium spinosum</i>) were mechanically removed and disposed of at the Balranald Landfill.	Bathurst Burr had to be mechanically removed as plants had formed seeds.	Inspections for declared weeds will be carried out Biannually to identify infestations prior to seed development. Weeds will be sprayed with a suitable herbicide in accordance with best industry practice.
Subsidence	No specific condition, Subsidence Management Plan (SMP) prepared as part of EMP	Little to no measurable movement was observed in any of the survey areas and no new sink holes have presented. The May 2022 subsidence monitoring report is provided as Appendix B.	Subsidence areas remain stable and fenced to restrict access.	Subsidence was monitored in May 2022, no further monitoring is proposed at the T3 site.
Groundwater	SSD-5285. Condition 15, Schedule 3 – Groundwater Management Plan (GMP) appended to EMP.	Groundwater level and quality monitoring indicates little or no impact on nearby groundwater users.	No impact to regional groundwater level or quality.	Groundwater monitoring of regional and third party bores undertaken in July 2022. Next monitoring scheduled for January 2023.
Noise	SSD-5285. Condition 3, 4 and 5, Schedule 3 – Noise	No noise monitoring carried out during 2022.	No noise generating activities onsite.	No noise monitoring during care & maintenance period. Monitoring to commence during construction of the underground mining trial in 2023.

Aspect	Approval criteria / EIS prediction	Performance during period	Trend / key management implications	Implemented/proposed management actions
Air quality	SSD-5285. Condition 6, 7, 8 and 9, Schedule 3 – Air quality	No air quality monitoring carried out in 2022.	HMC and tails stockpiles remain covered with no evidence of HMC migration..	No air quality monitoring during care & maintenance period. Monitoring to commence during construction of the underground mining trial in 2023.
Biodiversity	SSD-5285. Condition 16 and 17, Schedule 3 – Biodiversity	Drill pads and tracks were rehabilitated in 2022.	Promote natural regeneration of disturbed areas.	Vegetation clearing during the construction of the underground mining trial will be conducted in accordance with approved Biodiversity Management Plans.
Cultural heritage	SSD-5285. Condition 18, 19, 20 and 21 – Heritage	Cultural Heritage material was salvaged from a portion the MOD1 activity area in consultation with RAPs in August 2022. Artefacts were recorded and placed into the keeping place.	Salvage of artefacts prior to construction for the protection of Culturally sensitive material.	Additional salvage works are scheduled for May 2023 within the additional MOD1 disturbance area (MLA621)

7 WATER MANAGEMENT

7.1 Water take

Water use for the previous water year 1 July 2021 to 30 June 2022 is summarised in Table 10. There was no further take for the remainder of the 2022 calendar year.

Table 10: Summary of water use

Water Licence #	Water Source and Water Sharing Plan	Entitlement / allocation	Passive take / inflows	Active pumping	Total (ML)
44602	Western Murray Porous Rock Groundwater Source/NSW Murray Darling Basin Porous Rock Groundwater Sources 2020.	2,000 ML	0 ML	0 ML	0 ML
31101		0 ML	0 ML	0 ML	0 ML
31102		0 ML	0 ML	0 ML	0 ML

7.2 Groundwater monitoring

Analysis of the July 2022 groundwater pressure and quality data, with comparison to the October 2021, pre-activity and during activity data analysed by EMM (2021), has found the following:

The average change in groundwater levels which occurred in regional monitoring bores when comparing pre-activity and July 2022 data was -0.12 m. The low variation in groundwater levels indicates that T3 activities had little or no impact on nearby groundwater levels.

Minor changes in field pH, TDS, EC and total iron concentrations were observed when comparing pre-activity, October 2021 and July 2022 data from regional bores. Exceptions to this include a considerable reduction in the average pH and increase in ORP observed in regional SFM bores, which could suggest a natural trend occurring in this aquifer. An increase was also noted in the average total iron measurement in LPS bores however the median measurement was lower in July 2022 than October 2021. Additionally, most bores have shown an increase in ORP when comparing pre-activity, October 2021 and July 2022 measurements.

An increasing trend of dissolved zinc measurements was found at a regional SFM and LPS bore that are not known historically to have high dissolved zinc concentrations. These exceedances may be erroneous and will be confirmed the next time these bores are sampled. No other significant trends were found in any groundwater quality parameters that would suggest the local groundwater system was impacted by T3 activities. In general, analyte concentrations measured in July 2022 were similar to those measured prior to the beginning of T3 and in October 2021. Some exceedances of groundwater quality SSTLs in regional and third-party bores were noted but were determined to be due to natural fluctuations or local mineralisation (elevated background concentrations). With the exception of dissolved zinc, in bores where an SSTL exceedance was noted, no increasing trends were observed, and no other bores showed similar exceedances.

The July 2022 Groundwater monitoring report is provided as Appendix A.

8 REHABILITATION

An Annual Rehabilitation Report and Forward Program has been prepared in accordance with *Mining Amendment (Standard Conditions of Mining Leases— Rehabilitation) Regulation 2021* under the *Mining Act 1992*.

The 2022 Annual Rehabilitation Report and 2023-2025 Three Year Forward Program are provided as Appendix B and Appendix C, respectively.

9 COMMUNITY

9.1 Complaints

No community complaints were received during the 2022 reporting period. A copy of the complaints register for the Project is provided on the Iluka Resources website in accordance with the Condition 11, Schedule 5 of SD-5285.

9.2 Community engagement

5 Rivers Outback Festival

Iluka was the major sponsor for the 5 Rivers Outback Festival held by Balranald Inc from the 7th to 9th of October 2022.

An Iluka display was setup in the main street of Balranald to provide the local community with the latest project updates and to respond to any queries or concerns raised by community members. All interactions with the local community and visitors to the area were positive and the project was well supported.



Iluka's Environment and Communities Superintendent (Vicki Hood) manning the display at Balranald's Five Rivers Outback Festival.

Murray Basin Newsletter

Iluka published a newsletter "Murray Basin Update" in November 2022 to inform the community about Iluka's latest projects in the Murray Basin.

The November 2022 newsletter and other project updates are available on the Iluka website <https://iluka.com/engage>.

Registered Aboriginal Parties (RAPs)

Iluka consulted and engaged with RAPs to undertake an Aboriginal Cultural Heritage sub-surface exploratory survey and collection of surface artefacts in August and September 2022. Iluka is committed to protecting and preserving Aboriginal Cultural Heritage and consulting with Traditional Owners on all Cultural Heritage matters.

9.3 Community contributions

Iluka's community contributions during the reporting period are summarised below in Table 11.

Table 11: Community contributions

Community Group	Sponsorship and Donations
Homebush Recreation Club	Sponsorship of breakaway roping event
Balranald Incorporated	Major Sponsorship for 5 Rivers Outback Festival 2022
Balranald Murrumbidgee Classic	Sponsorship for Murrumbidgee Classis 2023 fishing competition
Various community and charity groups	Donation of redundant mining equipment for auction in 2023. All proceeds to go to local community groups.

10 INDEPENDENT AUDIT

No Independent Audit was conducted during the reporting period. The first Independent Audit is required within 12 months from the commencement of construction associated with the underground mining trial.

The Department of Planning and Environment (DPE) issued a letter to Iluka on 20 January 2021 confirming that as construction of the mine has not formally commenced under the Development Consent, and only bulk sampling activities are currently being undertaken, the requirement for an Independent Audit under Condition 8 Schedule 5 has not yet been triggered.

11 INCIDENTS AND NON-COMPLIANCE

11.1 Non-compliances

No non-compliances with the conditions of the relevant statutory approvals occurred during the 2022 reporting period.

11.2 Reportable incidents or exceedances

No reportable incidents with the conditions of the relevant statutory approvals (Table 5) occurred during the 2022 reporting period.

11.3 Official cautions or warnings

No official cautions, warning letters, penalty notices or prosecution proceedings were received by any regulatory agency for the Project during the 2022 reporting period.

12 ACTIVITIES FOR NEXT REPORTING PERIOD (2023)

12.1 Environmental management

Prior to the commencement of construction of the underground mining trial all environmental management plans (EMPs) required by Consolidated Development Consent (SSD-5285) will be developed and approved by DPE. The EMPs required for the construction and operation of the underground mining trial are:

- Environmental Management Strategy;
- Air Quality Management Plan;
- Noise Management Plan;
- Biodiversity Management Plan (NSW and Commonwealth);
- Traffic Management Plan;

- Water Management Plan; and
- Aboriginal Cultural Heritage Management Plan Addendum.

Other existing management plans that will be updated to reflect the approved MOD1 Consolidated Consent are:

- Rehabilitation Management Plan;
- Radiation Management Plan; and
- Pollution Incident Response Management Plan.

Salvage of the remaining cultural heritage material within the MOD1 extended Underground Mining Trial activity area will be undertaken in consultation with Registered Aboriginal Parties (RAPs) and a qualified archeologist in Q2 2023. Cultural heritage will be managed in accordance with an approved Cultural Heritage Management Plan.

Pre-clearance surveys will be undertaken between September and February prior to vegetation clearing to identify hollow bearing trees and Malleefowl mounds. Clearing will be conducted in accordance with an approved Biodiversity Management Plan.

Attended noise monitoring will be conducted prior to commencement of construction to obtain baseline data and then quarterly during construction. Noise monitoring will be undertaken in accordance with an approved Noise Management Plan.

Air quality monitoring for PM₁₀ and PM_{2.5} will commence prior to construction using a continuous particulate monitor to obtain baseline data and provide ongoing compliance monitoring for air quality during construction. Air quality monitoring will be undertaken in accordance with an approved Air Quality Management Plan.

Groundwater monitoring bores will be installed during construction to obtain baseline data prior to the commencement of mining operations. Groundwater monitoring will be undertaken in accordance with an approved Water Management Plan.

12.2 Community engagement

Balranald Shire Council will be consulted in March 2023 to provide an update on the project, including when Iluka expect to commence construction and to discuss the accommodation camp facility.

Balranald Shire Council and Transport for NSW will be consulted during 2023 regarding the required road upgrades during the first 12 months of construction.

Consultation with RAPs will be undertaken in March 2023, RAPs will assist in the salvage and recording of Aboriginal artefacts discovered during surveys within the additional disturbance area approved by MOD1.

Consultation with RAPs will continue in 2023 to establish the Aboriginal Cultural Heritage Working Group. The group will meet at least twice per year, and will be an advisory committee which Iluka will work with in relation to ongoing management of Aboriginal heritage associated with the project.

Consultation will be undertaken with various government agencies and other stakeholders in 2023 prior to construction for the development and approval of the Environmental Management Plans for the project.

Consultation with the Resources Regulator will be undertaken during 2023 to further develop the rehabilitation objectives and final land use plans as approved by MOD1 for the site required under the Mining Regulation 2016.

Community consultation will be undertaken over the next reporting period, including attending community events, providing project updates and responding to queries or complaints.

12.3 Approval conditions triggered during next reporting period

Approval conditions to be triggered in the next reporting period are listed in Table 12.

Table 12: Approval conditions triggered during next reporting period

Action	Source	Timing
Notify DPE of commencement of construction of the underground mining trial	SSD-5285 Schedule 2, Condition 11(b)	Prior to commencement of construction
Enter into Voluntary Planning Agreement with Balranald Shire Council	SSD-5285 Schedule 2, Condition 18	Prior to commencement of construction
Implement road upgrade works detailed in Table 8 of SSD-5285	SSD-5285 Schedule 3, Condition 22	Within 12 months of commencing construction
Enter into a road maintenance agreement with Balranald Shire Council	SSD-5285 Schedule 3, Condition 25	Prior to commencement of construction
Conduct Independent Environment Audit	SSD-5285 Schedule 5, Condition 8	Within 12 months of commencing construction
Retire stage 1 Offset credits as specified in Table 7 of SSD-5285	SSD-5285 Schedule 3, Condition 16A	Within 24 months of the commencement of disturbance
Development and approval of EMS	SSD-5285 Schedule 5, Condition 1	Prior to commencement of any development
Development and approval of EMPs	SSD-5285 Schedule 3, Conditions 5, 9, 15, 17, 20, 27, 33	Prior to commencement of disturbance and construction
Installation of meteorological weather station	SSD-5285 Schedule 3, Conditions 10	During life of development
Make EMPs publicly available on website	SSD-5285 Schedule 5, Conditions 10	Earliest convenience after approval
Development and approval of Commonwealth Biodiversity Management Plan	EPBC Ref: 2012/6509 Condition 2	Prior to commencement of the action

Action	Source	Timing
Notify DECCEW of commencement of the action in writing	EPBC Ref: 2012/6509 Condition 8	Within 10 days after the commencement of the action
Publish Biodiversity Management Plan on Iluka website	EPBC Ref: 2012/6509 Condition 11	Within 1 month of being approved
Variation to Environment Protection Licence 20795	Protection of the Environment Operations Act 1997	Prior to commencement of any development

APPENDICES

A-1.1 Appendix A: Hydrogeochemical assessment- July 2022 groundwater monitoring event.

A-1.2 Appendix B: Subsidence monitoring May 2022

A-1.3 Appendix C: Annual Rehabilitation Report 2022

A-1.4 Appendix D: Three Year Forward Program 2023-2025

A-1.5 Appendix E: Plan 1- Current status of mining & rehabilitation and current landform contours.

**A-1.6 Appendix F: Plan 2- Forecast disturbance and rehabilitation years 2023-
2025**