Iluka Resources Limited

2026 Annual Compliance Report EPBC 2012/6509 Balranald Mineral Sands Mine, NSW

20 October 2026

DOCUMENT REVISION STATUS RECORD

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TABLE OF CONTENTS

1. Declaration of accuracy 2

2. Description of activities 3

3. Addressing all approval conditions 6

4. EPBC approval conditions compliance table 5

5. Correcting non-compliances 19

6. New Environmental risks 19

Appendix A- Extension Grant for Stage 1 Offset Requirements 20

Appendix B- Annual Malleefowl monitoring report 2025 21

Appendix C – Notification of commencement of action 22

Appendix D - Biodiversity Management Plan commitments and implementation 23

1. Declaration of accuracy

In making this declaration, I am aware that sections 490 and 491 of the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed:	
Full name:	Brendan Isaacs
Position:	Environmental Rehabilitation & Community Superintendent
Organisation:	Iluka Resources Limited (ACN 008 675 018)
Date:	21 October 2026

2. Description of activities

EPBC number	EPBC 2012/6509
Project name	Balranald Mineral Sands Mine
Approval holder and ACN or ABN	Iluka Resources Limited (ACN 008 675 018)
The approved action	To construct, operate and rehabilitate a mineral sand mine near Balranald, NSW, and associated infrastructure activities.
Location of the project	South-western New South Wales, 12km north-west of Balranald
Person accepting responsibility for the report	Brendan Isaacs (see declaration)
Dates for the reporting period of the report	9 August 2025 to 9 August 2026
Date of preparation of the report.	20 October 2026

2.1 Activities undertaken during reporting period

The action commenced on the 9th August 2023 with the following construction works undertaken during the reporting period from 9th August 2025 to 9th August 2026:

- Mining and processing infrastructure:
  - Continued construction of:
    - Underground mining infrastructure;
    - Associated water management facilities;
    - HMC stockpile wind fences; and
    - Pads, borrow pits.
  - Commissioning of:
    - Wet Concentrator Plant (WCP);
    - mining panels;
    - pads, borrow pits, dams and water supply infrastructure;
    - underground development drilling operations; and
    - Fine Tails Reinjection infrastructure.
  - Commenced mining operation and ramp up phase reaching steady state Operations phase in August 2026.
- Non-processing infrastructure:
  - Commissioning of:
    - warehouse, storage areas, workshops; and
    - site offices, contractor yards.
- Transport infrastructure:
  - Completion of vehicle wash facilities.
- Service and utilities infrastructure:
  - Commissioning of:
    - Fuel storage and dispensing area; and
    - Permanent diesel power station.
  - Continuation of monitoring program which included development of additional groundwater monitoring bores;
  - Construction and completion of Solar Farm and BESS; and
  - Decommissioning of T3 trial site.



Plate 1- Wet Concentrator Plant (WCP) commission (image taken February 2026)



Plate 2- Solar Farm (image taken February 2026)



Plate 3- Overview of Mining Panel Area (image taken January 2026)



Plate 4- Process Dam Infrastructure (image taken February 2026)

3. Addressing all approval conditions

The reporting period for this Compliance Assessment Report is from the 9 August 2025 to 9 August 2026.

All conditions of EPBC 2012/6509 were considered over the reporting period.

4. EPBC approval conditions compliance table

Date of Decision	Condition Number	Condition	Is condition compliant?	Evidence/Comments
Variation dated 01/08/2023	1	Within the **project area** the person taking the action must not **clear**: a. more than 2,544 hectares (ha) of **Malleefowl habitat**; and b. more than 3,143 ha of **Corben's Long-eared Bat habitat**. The person taking the action must not **clear** outside the **project area** as part of this approval.	Compliant	Since the commencement of the action a total of 58.5Ha of Malleefowl habitat and 29.5Ha of Corben's Long-eared Bat habitat have been cleared respectively. No clearing occurred within the Malleefowl and Corben Bat habitats during the reporting period.
Varied dated 01/08/2023	2	The person taking the action must submit a **Biodiversity Management Plan** (**BMP**) for the **Minister's** written approval. The **BMP** must include measures to avoid and mitigate impacts to **Malleefowl** and **Corben's Long-eared Bat,** taking into consideration Chapter 6 of the *Biodiversity Assessment for the Environmental Impact Statement* (June 2016). The **BMP** must include but not be limited to: a. **pre-disturbance surveys** supervised by a **suitably qualified expert** to determine presence of: i. **Malleefowl** mounds in areas mapped as moderate, high, and very high **Malleefowl Habitat** Potential in Figures 12B and 12C as shown at Appendix A; and ii. **hollow-bearing trees** for the **Corben's Long-eared Bat** in areas mapped as Medium Tree Hollow Density, Medium-High Tree Hollow Density and High Tree Hollow Density in Figures 13A, 13B and 13C as shown at Appendix C. b. REVOKED	Compliant	The Biodiversity Management Plan (Version 5, June 2023) was approved by the Department on 1 August 2023. The BMP is published on the Iluka website in accordance with Condition 11. All measures outlined in the Biodiversity Management Plan (BMP) for the protection of Malleefowl and Corben's Long-eared Bat were implemented during the reporting period. Monitoring activities are ongoing as required by the approved BMP (refer to Appendix D)

Date of Decision	Condition Number	Condition	Is condition compliant?	Evidence/Comments
		c. measures to ensure **active** or potentially **active Malleefowl** mounds located during **pre-disturbance surveys** between September and February (inclusive) are protected until the end of that **Malleefowl** nesting season (end of February); d. measures to identify **Malleefowl** nesting activity within **Malleefowl habitat** during the **Malleefowl** nesting season; e. speed limits and warning signs in and near **Malleefowl habitat;** f. measures to minimise dust and light spill within 200 metres of identified **Malleefowl** mounds; g. no **clearing** of vegetation mapped as Medium Tree Hollow Density, Medium-High Tree Hollow Density and High Tree Hollow Density in Figures 13A, 13B and 13C as shown at Appendix C, during the period May to October (inclusive); h. retention in situ, of all **hollow-bearing trees** identified as **active** within **Corben's Long-eared Bat habitat**, for two nights after the surrounding vegetation has been **cleared**, prior to being felled; i. fire management measures; and j. pest, predator and weed management measures. The person taking the action must not **commence** the action until the **BMP** has been approved by the **Minister** in writing. The approved **BMP** must be implemented by the person taking the action.		The action commenced on 9 August 2023 and the Department notified in writing of this commencement date on 14 August 2023 (refer to Appendix C).
Variation dated 01/08/2023	2A	To avoid and mitigate impacts as a result of the action on **Malleefowl**, prior to undertaking any **clearing** within areas mapped as moderate, high, and very high **Malleefowl Habitat** Potential, the person taking the action must ensure a **suitably qualified expert** conducts **pre-disturbance surveys** to detect and record all **Malleefowl** mounds. The person taking the action must not undertake any **clearing** unless:	Compliant	No clearing of Malleefowl habitat was undertaken during the Malleefowl breeding season within the reporting period. The Malleefowl Annual Monitoring Program conducted by GHD in October 2025 identified mounds along the mine access road and their status. All mounds were avoided (refer to Appendix B).

Date of Decision	Condition Number	Condition	Is condition compliant?	Evidence/Comments
		a. the **suitably qualified person** has completed a **Malleefowl** mound **pre-disturbance surveys** for that **breeding season**, b. all **Malleefowl** mounds, and avoidance areas around each mound, within the **project area** have been mapped for that **breeding season**, and c. the finalised **survey** results and associated maps have been submitted electronically to the **Department**. The person taking the action must ensure that no **Malleefowl** mound is directly disturbed during any **breeding season**. The person taking the action must not **clear** within 200 metres of any **Malleefowl** mound during any **breeding season**.		
Original dated 06/01/2017	3	In order to mitigate impacts to **Malleefowl** and **Corben's Long-eared Bat,** the person taking the action must undertake rehabilitation activities in accordance with **NSW approval** conditions 32, 33 and 34.	Not Applicable	No rehabilitation has been undertaken to date as the project was in construction, commissioning and commencement of operations phase. Rehabilitation will be undertaken in accordance with the conditions imposed on the mining lease(s) associated with the development under the *Mining Act 1992.*
Variation dated 16/06/2025	3A	To compensate for the loss of **Malleefowl habitat** and **Corben's Long-eared Bat habitat**, the person taking the action must retire biodiversity offset credits in accordance with Schedule 3 conditions 16 and 16A-16E of the **NSW approval** to the extent that it relates to **protected matters**	Compliant	On 16 October, the NSW Department of Planning and Environment issued a letter granting Iluka an extension of time to retired the Stage 1 biodiversity credits required under Schedule 2, Condition 16A of the NSW approval. The revised deadline for the credit retirement is now 31 October 2026 (refer to Appendix A).

Date of Decision	Condition Number	Condition	Is condition compliant?	Evidence/Comments
Variation dated 16/06/2025	3B	Changes to the **NSW approval**: i. The approval holder must notify the **Department** in writing of any proposed change to the **NSW approval** that may relate to **protected matters** within 2 **business days** of formally proposing such a change and within 5 **business days** of becoming aware of any proposed change. ii. The approval holder must notify the **Department** in writing of any change to the **NSW approval** conditions that may relate to **protected matters**, within 5 **business days** of such a change to conditions coming into effect. Such notification must include a copy of the changed **NSW approval** conditions showing what changes have been made.	Compliant	No changes to the EPBC Approval 2012/6509 were required during the compliance reporting period August 09 2025 – August 09 2026.
Variation dated16/06/2025	4	Revoked.		
Variation dated 16/06/2025	5	Revoked.		

Date of Decision	Condition Number	Condition	Is condition compliant?	Evidence/Comments
Variation dated 16/06/2025	6	Revoked.		
Original dated 06/01/2017	7	The person taking the action must ensure that cultural awareness training be included in the Aboriginal Cultural Heritage Management Plan to be developed under Schedule 3 Condition 20 of the NSW Approval. The cultural awareness training must include information on the World Heritage and National Heritage values of the Willandra Lakes Region and the culturally sensitive use of this place.	Compliant	A cultural heritage awareness package has been developed and is delivered to workers periodically.
Original dated 06/01/2017	8	Within 10 days after the **commencement** of the action, the person taking the action must advise the **Department** in writing of the actual date of **commencement**.	Compliant	The Department was notified in writing on the 14th August 2023 for the commencement of the action as being the 9th August 2023.
Variation date 16/06/2025	9	The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of this approval, including measures taken to implement the approved **Biodiversity Management Plan**, and make them available upon request to the **Department**. Such records may be subject to audit by the **Department** or an independent auditor in accordance with section 458 of the **EPBC Act** or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the **Department**'s **website**. The results of audits may also be publicised through the general media.	Compliant	Ongoing: Records, reports, pre-clearance and clearing activities in accordance with the approved Biodiversity Management Plan (BMP) are maintained. (Refer to Appendix B- Annual Malleefowl monitoring report 2025)

Date of Decision	Condition Number	Condition	Is condition compliant?	Evidence/Comments
Original dated 06/01/2017	10	Within three months of every 12-month anniversary of the **commencement** of the action, the person taking the action must publish a report on their **website** addressing compliance with each of the conditions of this approval, including implementation of any **management plans** and reports as specified in the conditions. Documentary evidence providing proof of the date of publication and non-compliance with any of the conditions of this approval must be provided to the **Department** at the same time as the compliance report is published. Reports must remain published for the life of the approval. The person taking the action may cease preparing compliance reports required by this condition with written agreement of the **Minister**.	Compliant	Ongoing: The reporting period for this Compliance Report is from the 9 August to 9 August each year. The Department endorsed Compliance Report 2025 was published on the Iluka website within 3 months of 12-month anniversary of the commencement of the action.
Variation dated 01/08/2023	10A	The approval holder must submit all **plans** required by these conditions electronically to the **Department**.	Complaint	The BMP was approved by the Department on 1 August 2023. No further updates to the BMP has been made post approval, during the reporting period.
Variation dated 01/08/2023	11	Unless otherwise agreed in writing by the **Minister**, the approval holder must publish each **plan** on the **website** within 15 **business days** of the date: a. the **plan** is approved by the **Department** in accordance with a requirement of these conditions, if the **plan** requires the approval of the **Minister**, or b. the **plan** is submitted to the **Department** in accordance with a requirement of these conditions, if the **plan** does not require the approval of the **Minister**, or c. the **plan** is approved by a state or territory government official as required under a state or territory government condition which must	Compliant	The latest version of BMP approved by the Department on 1 August 2023 is published on the Iluka website. Balranald - Community Engagement | Iluka Resources

Date of Decision	Condition Number	Condition	Is condition compliant?	Evidence/Comments
		be complied with in accordance with these **EPBC Act** conditions.		
Variation dated 01/08/2023	11A	The approval holder must keep all published **plans** required by these conditions on the **website** until the expiry date of this approval.	Compliant	The latest version of BMP approved by the Department on 1 August 2023 is published on the Iluka website. Balranald - Community Engagement | Iluka Resources
Variation dated 01/08/2023	11B	The approval holder is required to exclude or redact sensitive ecological data from **plans** published on the **website** or otherwise provided to a member of the public. If sensitive ecological data is excluded or redacted from a **plan**, the approval holder must notify the **Department** in writing what exclusions and redactions have been made in the version published on the **website**.	Compliant	No sensitive information has been disclosed and no content has been redacted.
Variation dated 01/08/2023	11C	The approval holder must maintain accurate and complete **compliance records**.	Compliant	Records of activities carried in accordance with the approval are kept on record including all surveys and reports for threatened species management. Records are kept of any identified non-compliances with the conditions of approval.

Date of Decision	Condition Number	Condition	Is condition compliant?	Evidence/Comments
Variation dated 01/08/2023	11D	If the **Department** makes a request in writing, the approval holder must provide electronic copies of **compliance records** to the **Department** within the timeframe specified in the request. Note: **Compliance records** may be subject to audit by the **Department**, or by an independent auditor in accordance with section 458 of the **EPBC Act**, and/or be used to verify compliance with the conditions. Summaries of the results of an audit may be published on the **Department's website** or through the general media.	Compliant	No request has been made by the Department to provide such records.
Variation dated 01/08/2023	11E	The approval holder must ensure that any **monitoring data** (including **sensitive ecological data**), **surveys**, maps, and other spatial and metadata required under the conditions of this approval are prepared in accordance with the *Guidelines for biological **survey** and mapped data*, Commonwealth of Australia 2018, or as otherwise specified by the **Minister** in writing.	Compliant	Monitoring data, survey reports and spatial data have been prepared by a suitably qualified person and submitted to the Department in accordance with the guidelines.
Variation dated 01/08/2023	11F	The approval holder must ensure that any **monitoring data** (including **sensitive ecological data**), **surveys**, maps, and other spatial and metadata required under the conditions of this approval are prepared in accordance with the *Guide to providing maps and boundary data for **EPBC Act projects***, Commonwealth of Australia 2021, or as otherwise specified by the **Minister** in writing.	Compliant	Monitoring data, survey reports and spatial data have been prepared by a suitably qualified person and submitted to the Department in accordance with the guideline.
Variation dated 01/08/2023	11G	The approval holder must submit all **monitoring data** (including **sensitive ecological data**), **surveys**, maps, other spatial and metadata and all species occurrence record data (sightings and evidence of presence) electronically to the **Department** within 20 **business days** of each anniversary of the date of this approval decision or in accordance with the requirements of the *Balranald Mineral Sands Project NSW (EPBC*	Compliant	Monitoring data, survey reports and spatial data have been submitted to the Department in accordance with the BMP.

Date of Decision	Condition Number	Condition	Is condition compliant?	Evidence/Comments
		2012/6509), Commonwealth ***Biodiversity Management Plan***, version 5.0 (June 2023), Iluka Resources Limited 2023.		
Variation dated 01/08/2023	11H	The approval holder must prepare a **compliance report** for each 12-month period following the date of this approval decision, or as otherwise agreed to in writing by the **Minister**. The person taking the action may cease preparing **compliance reports** required by this condition with written agreement of the **Minister**.	Complaint	Ongoing: The reporting period for this Compliance Report is from the 9 August to 9 August each year. This Compliance Report has been prepared in accordance with the Condition 11H of the EPBC 2012/6509.
Variation dated 01/08/2023	11I	Each **compliance report** must be consistent with the *Annual Compliance Report Guidelines*, Commonwealth of Australia 2014.	Complaint	This compliance report has been prepared in accordance with the guideline.
Variation dated 01/08/2023	11J	Each **compliance report** must include**:** a. Accurate and complete details of compliance and any non-compliance with the conditions and the **plans**, and any incidents. b. One or more **shapefile** showing all **clearing** of **protected matters**, and/or their habitat, undertaken within the 12-month period at the end of which that **compliance report** is prepared. c. A schedule of all **plans** in existence in relation to these conditions and accurate and complete details of how each **plan** is being implemented.	Compliant	a) No non-compliance was identified during reporting period. b) No clearing of threatened species habitat (Malleefowl and Corben's Long-eared Bat) was undertaken during the reporting period. c) Biodiversity Management Plan is the only approved plan to date. Refer to Appendix D for a table of commitments and implementation.

Date of Decision	Condition Number	Condition	Is condition compliant?	Evidence/Comments
Variation dated 01/08/2023	11K	The approval holder must provide initial notification to the **Department** in writing, within 2 **business days** of becoming aware of any incident and/or potential non-compliance and/or actual non-compliance with the conditions or commitments made in a **plan**.	Compliant	No incidents or non-compliances occurred during the reporting period.
Variation dated 01/08/2023	11L	The approval holder must specify in the initial notification**:** a. Any condition or commitment made in a **plan** which has been or may have been breached. b. A short description of the incident and/or potential non-compliance and/or actual non-compliance. c. The location (including co-ordinates), date and time of the incident and/or potential non-compliance and/or actual non-compliance. **Note**: If the exact information cannot be provided, the approval holder must provide the best information available.	Compliant	No incidents or non-compliances occurred during the reporting period.
Variation dated 01/08/2023	11M	The approval holder must provide to the **Department** in writing, within 12 **business days** of becoming aware of any incident and/or potential non-compliance and/or actual non-compliance, the details of that incident and/or potential non-compliance and/or actual non-compliance with the conditions or commitments made in a **plan**. The approval holder must specify**:** a. Any corrective action or investigation which the approval holder has already taken. b. The potential impacts of the incident and/or non-compliance. c. The method and timing of any corrective action that will be undertaken by the approval holder.	Compliant	No incidents or non-compliances were occurred during the reporting period.

Date of Decision	Condition Number	Condition	Is condition compliant?	Evidence/Comments
Variation dated 01/08/2023	12	The approval holder must ensure that independent audits of compliance with the conditions are conducted as requested in writing by the **Minister**.	Not Applicable	There have been no requests made by the Minister to conduct an independent audit during the reporting period.
Variation dated 01/08/2023	12A	For each independent audit, the approval holder must**:** a. Provide the name and qualifications of the nominated independent auditor, the draft audit criteria, and proposed timeframe for submitting the **audit report** to the **Department** prior to commencing the independent audit. b. Only **commence** the independent audit once the nominated independent auditor, audit criteria and timeframe for submitting the **audit report** have been approved in writing by the **Department**. c. Submit the **audit report** to the **Department** for approval within the timeframe specified and approved in writing by the **Department**. d. Publish each **audit report** on the **website** within 15 **business days** of the date of the **Department's** approval of the **audit report**. e. Keep every **audit report** published on the **website** until this approval expires.	Not Applicable	There have been no requests made by the Minister to conduct an independent audit during the reporting period.
Variation dated 01/08/2025	12B	Each **audit report** must be completed to the satisfaction of the **Minister** and be consistent with the ***EPBC Act*** *Independent Audit and* ***Audit Report*** *Guidelines*, Commonwealth of Australia 2019.	Not Applicable	There have been no requests made by the Minister to conduct an independent audit during the reporting period.

Date of Decision	Condition Number	Condition	Is condition compliant?	Evidence/Comments
Variation dated 01/08/2025	13	If, at any time after eight years from the date of this approval, the person taking the action has not **commenced** the action, then the person taking the action must not **commence** the action without the written agreement of the **Minister**.	Compliant	The action commenced on 9 August 2023 as notified in writing to the Department on 14 August 2023 (refer to Appendix C).
Original dated 06/01/2017	14	The person taking the action may choose to revise a **management plan** approved by the **Minister** under condition 2 without submitting it for approval under section 143A of the **EPBC Act,** if the taking of the action in accordance with the revised **plan** would not be likely to have a **new or increased impact.** If the person taking the action makes this choice they must: a. notify the **Department** in writing that the approved **plan** has been revised and provide the **Department** with an electronic copy of the revised **plan**; b. implement the revised **plan** from the date that the **plan** is submitted to the **Department**; and c. for the life of this approval, maintain a record of the reasons the approval holder considers that taking the action in accordance with the revised **plan** would not be likely to have a **new or increased impact**.	Not Applicable	Management plans approved under Condition 2 were not revised during the reporting period.
Original dated 06/01/2017	14A	The person taking the action may revoke their Condition 14 at any time by notice to the **Department.** If the person taking the action revokes the choice to implement a revised plan without approval under section 143A of the **EPBC Act.** The **plan** approved by the **Minister** must be implemented.	Not Applicable	Management plans approved under Condition 2 were not revised during the reporting period.

Date of Decision	Condition Number	Condition	Is condition compliant?	Evidence/Comments
Original dated 06/01/2017	14B	Condition 14 does not apply if the revisions to the approved **management plan** include changes to environmental offsets provided under the **plan** in relation to a matter protected by a controlling provision for the action, unless otherwise agreed in writing by the **Minister.** This does not otherwise limit the circumstances in which the taking of the action in accordance with a revised **plan** would, or would not, be likely to have **new or increased impacts**.	Not Applicable	Management plans approved under Condition 2 were not revised during the reporting period.
Original dated 06/01/2017	14C	If the **Minister** gives a notice to the person taking the action that the **Minister** is satisfied that the taking of the action in accordance with the revised **plan** would be likely to have a **new or increased impact**, then: a. Condition 14 does not apply, or ceases to apply, in relation to the revised **plan**; and b. The person taking the action must implement the **plan** approved by the **Minister**. To avoid any doubt, this condition does not affect any operation of conditions 14, 14A and 14B in the period before the day the notice is given.At the time of giving the notice the **Minister** may also notify that for a specified period of time that condition 14 does not apply for one or more specified **management plans** required under the approval.	Not Applicable	Management plans approved under Condition 2 were not revised during the reporting period.
Original dated 06/01/2017	14D	Conditions 14, 14A, 14B and 14C are not intended to limit the operation of section 143A of the **EPBC Act** which allows the person taking the action to submit a revised **plan** to the **Minister** for approval.	Not Applicable	Management plans approved under Condition 2 were not revised during the reporting period.

Date of Decision	Condition Number	Condition	Is condition compliant?	Evidence/Comments
Variation dated 01/08/2023	15	The approval holder must notify the **Department** electronically 60 **business days** prior to the expiry date of this approval, that the approval is due to expire.	Not Applicable	Not triggered - The approval (EPBC ref 2012/6509) expires on January 1, 2046.
Variation dated 01/08/2023	16	Within 20 **business days** after the completion of the Action**,** and, in any event, before this approval expires, the approval holder must notify the **Department** electronically of the date of completion of the Action and provide **completion data**. The approval holder must submit any spatial data that comprises **completion data** as a **shapefile**.	Not Applicable	Action not completed and approval expiry date is 1 January 2046.

5. Correcting non-compliances

No non-compliances were recorded during the reporting period.

6. New Environmental risks

No new environmental risks became apparent during the reporting period.

Appendix A- Extension Grant for Stage 1 Offset Requirements

Department of Planning and Environment

Our ref: SSD-5285-PA-49

Ryan Inocco
Principal Advisor – Land
Iluka Resources Limited
Level 17 240 St Georges Terrace
Perth WA 6000

16/10/2025

Subject: Extension Request for Stage 1 Offset Requirements

Dear Mr Inocco

I refer to your letter dated 6 October 2025 requesting an extension of time to retire the stage 1 biodiversity required under Schedule 2, Condition 16A of the development consent for the Balranald Mineral Sands Mine (SSD-5285) (the project).

The Department notes that construction commenced on 7 August 2023 within the stage 1 offset area and, following a previous extension request (SSD-5285-PA-46), the stage 1 biodiversity credits are required to be retired by 31 October 2025.

The Department has reviewed the information provided and considers that it is reasonable to extend the timeframe for the biodiversity credits to be retired.

Accordingly, as nominee of the Secretary I grant an extension of time until 31 October 2026 to retire the biodiversity credits associated with the stage 1 offset area.

If you wish to discuss the matter further, please contact Brittany Golding on 02 9995 5742.

Yours sincerely



Stephen O'Donoghue
Director
Resource Assessments

As nominee of the Secretary

Appendix B- Annual Malleefowl monitoring report 2025

Annual Malleefowl Monitoring Program Balranald Mineral Sands Mine

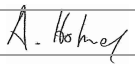
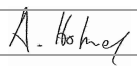
2025 Monitoring Report

Iluka Resources Limited

06 February 2026

→ The Power of Commitment



Project name		Iluka Resources Ltd - Annual Malleefowl Monitoring Program in Balranald 2024					
Document title		Annual Malleefowl Monitoring Program Balranald Mineral Sands Mine | 2025 Monitoring Report					
Project number		12648093					
File name		12648093_REP_Annual Malleefowl Monitoring Program_2025 Monitoring Report.docx					
Status Code	Revision	Author	Reviewer		Approved for issue		
			Name	Signature	Name	Signature	Date
S3	0	C. Kennedy					15/12/25
S4	1	C. Kennedy	A Holmes		A Holmes		6/02/1/26
[Status code]							
[Status code]							
[Status code]							

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Executive summary

Iluka Resources Limited (Iluka) operates a mineral sands mine in south-western New South Wales, known as the Balranald Mineral Sands Mine (the Balranald Mine). The southern and northern ends of the site are located approximately 12 kilometres (km) and 66 km north-west of the town of Balranald, respectively.

The Balranald Mine Project was approved under the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) and under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) (EPBC 2012/6509). A condition of approval is that Iluka must undertake annual monitoring for Malleefowl (*Leipoa ocellata*) in accordance with the approved Biodiversity Management Plan (BMP) and the Malleefowl Monitoring and Management Sub Plan (MMMSP).

The Malleefowl is listed as **Endangered** under the NSW *Biodiversity Conservation Act 2016* (BC Act) and as **Vulnerable** under the EPBC Act. Additionally, Malleefowl qualify as **Vulnerable** under international criteria for threatened species according to the IUCN 2022.

In accordance with the National Malleefowl Monitoring Manual (National Malleefowl Recovery Team 2020), the primary aim of the Malleefowl monitoring program is to track changes in the number of breeding birds inhabiting selected sites across the project area.

Annual monitoring of Malleefowl at the Balranald Mine commenced with baseline monitoring in December 2023 for the 2023-2024 breeding season (Year 1) (EMM 2024) followed by monitoring for Malleefowl for 2024 (Year 2). GHD Pty Ltd (GHD) was engaged by Iluka to undertake monitoring for Malleefowl for the 2025 (Year 3) season. This report presents the results of the Year 3 monitoring.

GHD's ecologists undertook the Malleefowl monitoring in October 2025. The monitoring comprised two parts:

– Monitoring of the three established 2 x 2 km sites/areas, and
– Monitoring of the area up to 200 m from the approved haul road disturbance boundary.

GHD also deployed motion-sensing cameras at selected locations, in an effort to record Malleefowl activity around mounds and potentially chick hatchings.

During the monitoring, fifty-eight mounds or potential mounds were found and assessed. Twenty-one of the mounds were deemed 'active': ten in Area 2 (mounds 1, 5, 24, 25, 27, 29, 31, 33, 34 and 36), eight in Area 3 (mounds 7, 10, 37, 38, 39, 40, 44 and 45) and three along the northern end of the Haul Road (mounds 18, 49 and 51). Nineteen of the fifty-eight mounds had been detected and assessed in previous survey events.

Sightings of Malleefowl were recorded at five locations via camera traps (four of these five sightings were active mounds – mound 10 only captured Malleefowl moving through the area, not altering the mound).

All images of Malleefowl were of adult birds rather than chicks. At four of the mounds, at least two birds were seen attending the mounds. No chick hatching was observed. The majority of the mounds monitored by cameras also shows signs of feral predator activity – cats, foxes, pigs.

The Malleefowl mound counts and the Malleefowl bird sightings made by GHD in October 2025 are greater than counts made in previous survey and monitoring events, which is due to LiDAR data being provided to GHD by Iluka, allowing a more extensive and targeted assessment to be made in 2025.

This survey had a larger sample size of fifty-eight mounds within the three areas and haul road. The twenty-one active mounds found across Area 2, Area 3 and the Haul Road sites provides a greater survey effort and sample size to track and assess Malleefowl breeding activity and potential disturbance from the project and other impacts such a pest predators..

The use of motion-sensing cameras at active mounds showed clearly that feral animals continue to be a threat to Malleefowl breeding success. The results indicate that the feral predator control efforts to date need to be continued and possibly increased to reduce the threat to acceptably low levels.

Future management and monitoring of the site for Malleefowl should include:

– Continue or increase control efforts for the most prevalent feral predators – foxes and pigs.

– Consider targeted cat-control methods to reduce or eradicate the local population of cats.
– Implement control methods for goats; to reduce the vegetation damage they cause to Malleefowl habitat.
– Enforce slow traffic speed limits on any roads that pass close to known mounds or through Malleefowl high-use areas.
– Continue to monitor known mounds and birds.

This report is subject to, and must be read in conjunction with, the limitations set out in sections 1 and 2 and the assumptions and qualifications contained throughout the Report.

Contents

Executive summary i

1. Introduction 1

1.1 Scope and purpose of this report 1

1.2 Research questions 2

1.3 Limitations and assumptions 2

1.3.1 Accessibility of documents 3

1.4 Study site 3

1.5 Previous assessments 3

2. Methods 4

2.1 Malleefowl Habitat and Mound Monitoring 4

2.2 Cameras 4

2.3 Permits 5

3. Results 5

3.1 Malleefowl mounds 5

3.2 Malleefowl sightings 10

3.3 Cameras 11

3.4 Weather 13

4. Discussion 13

5. Recommendations 14

6. References 15

Table index

Table 1 Malleefowl mounds assessed by GHD in October 2025. 7

Table 2 Malleefowl evidence in October 2025 10

Table 3 Malleefowl sightings in previous surveys 10

Table 4 Results of cameras deployed at mounds 11

Table 5 Images of Malleefowl from motion-sensing cameras 12

Table 6 Temperature and rainfall during the monitoring (recorded at Mildura) 13

Figure index

Figure 1 Malleefowl monitoring results, October 2025. 6

Appendices

Appendix A	Field Data 2024 & 2025
Appendix B	Mound Assessments - history
Appendix C	Images of mounds
Appendix D	Images of other native and non-native species 2024 & 2025
Appendix E	Historical map of mounds (Figure 2.1 from EMM 2024)
Appendix F	Map of mounds from baseline monitoring (Figure 4.1 from EMM 2024)

1. Introduction

Iluka Resources Limited (Iluka) operates a mineral sands mine in south-western New South Wales (NSW), known as the Balranald Mineral Sands Mine (the Balranald Mine). It includes construction, open-cut mining, primary processing, and rehabilitation of two linear mineral sand deposits, located approximately 12 kilometres (km) and 66 km north-west of the town of Balranald, respectively. On 21 December 2022, Iluka were granted approval to modify the consent (MOD1) to undertake am underground mining trial for up to 6 years, which includes an additional area of disturbance to the approved Balranald Mine 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.

The Balranald Mine Project was approved under the NSW *Environmental Planning and Assessment Act 1979* (EP&A Act) on 5 April 2016 and under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) (EPBC 2012/6509) on 6 January 2017. A condition of the approval requirements is that Iluka must undertake annual monitoring for Malleefowl (*Leipoa ocellata*) in accordance with the approved Biodiversity Management Plan (BMP) and the Malleefowl Monitoring and Management Sub Plan (MMMSP).

Iluka's MMMSP has been prepared in accordance with the guidelines provided in the National Manual for the Malleefowl Monitoring System (National Malleefowl Recovery Team, 2020) and the National Recovery Plan for Malleefowl (Benshemesh J., 2007).

The Malleefowl is listed as **Endangered** under the NSW *Biodiversity Conservation Act 2016* (BC Act), as **Vulnerable** under the EPBC Act and as **Vulnerable** under international criteria for threatened species according to the IUCN 2022. The MMMSP outlines the life history, distribution and threats to Malleefowl and details measures for the management and monitoring of Malleefowl individuals and mounds within the project area.

Annual monitoring of Malleefowl at the Balranald Mine commenced with baseline monitoring in December 2023 for the 2023-2024 breeding season (Year 1) (EMM 2024) followed by monitoring for Malleefowl for 2024 (Year 2). GHD Pty Ltd (GHD) was engaged by Iluka to undertake monitoring for Malleefowl for the 2025 (Year 3) season.

This report presents the results of the Year 3 monitoring.

1.1 Scope and purpose of this report

This report provides the results of Malleefowl monitoring for 2025 at the Balranald Mineral Sands Mine in accordance with the approved Biodiversity Management Plan (BMP) and the Malleefowl Monitoring and Management Sub Plan (MMMSP).

In accordance with the National Malleefowl Monitoring Manual (National Malleefowl Recovery Team 2020), the primary aim of the Malleefowl monitoring program is to track changes in the number of breeding birds inhabiting selected sites across the project area.

The agreed scope for this monitoring is for GHD to undertake the following:

- Monitor existing mounds within three 2 x 2 km sites and record details as per the MMMSP.
- Conduct ground searches for new mounds.
- Assess LiDAR data supplied and obtained by Iluka (drone supplied and operated by Iluka).
- Visit any suspected new mounds identified by LiDAR and record details.
- Monitor existing mounds within 200 m of the MOD1 approval boundary.
- Conduct searches on foot for new mounds adjacent to the mine access road within 200 m of MOD1 approval boundary (10 km x 0.5 km section) within Malleefowl habitat and record details.
- Install remote cameras on any active mounds to record activity and chick hatchings. Retrieve cameras (to be done by Iluka) when breeding has ceased and assess data, recording number of hatchings.
- Use GPS to record and name/number all previously identified mounds and any new mounds identified (both in plots and in 200 m buffer of road).

– Collate all monitoring data and produce an annual report as per requirements of the MMMSP within 10 weeks of monitoring.
– Submit all raw data sheets to the National Malleefowl Monitoring Program.

GHD is to supply:

– Sufficient remote cameras for all active mounds located.

Iluka is to supply:

– Location details for currently known active or inactive mounds.
– Drone fitted with LiDAR;
– Drone pilot;
– Change out batteries in remote cameras as required until end of breeding season; and
– Postage / delivery of cameras back to consultants nominated office

1.2 Research questions

In addition to the primary monitoring aims, monitoring also aims to answer the following questions:

– Is vegetation clearing, increased noise and lighting resulting in a negative impact on Malleefowl breeding activity adjacent to the West Balranald Mine (MOD1)?
– Is fox and feral predator control under the BMP having a positive impact on Malleefowl breeding activity?
– Are bushfires having a negative impact on Malleefowl breeding activity?
– Are Malleefowl constructing new nests in rehabilitation areas?

It is understood that not all of these questions will be answerable after every monitoring event.

1.3 Limitations and assumptions

This report has been prepared by GHD Pty Ltd for Iluka Resources Limited and may only be used and relied on by Iluka Resources Limited for the purpose agreed between GHD and Iluka Resources Limited as set out in section 1.2 of this report.

GHD otherwise disclaims responsibility to any person other than Iluka Resources Limited arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report are limited by the following:

– The field assessment:
– Involved the use of Collector for ArcGIS mapping application to record site information. This mapping tool was accurate to within 10 m on site.
– Did not involve any targeted surveys for species other than Malleefowl.

The opinions, conclusions and any recommendations in this report are based on conditions encountered, observations made, and information reviewed up to the date of preparation of the report. As GHD was only present on specific dates and certain time periods, this report is only indicative (and not definitive) of conditions present on the site(s). Conditions governing flora and fauna (whether in type or quantity) can change and fluctuate at different times throughout the year (due to factors including seasonal changes, external events or third-party intervention), and it is generally not possible to observe such changes or fluctuations where only a discrete site visit has taken place. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

GHD has prepared this report on the basis of information provided by Iluka Resources Limited. GHD has not independently verified or checked this information beyond the agreed scope of work. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

1.3.1 Accessibility of documents

If this report is required to be accessible in any other format, this can be provided by GHD upon request and at an additional cost if necessary.

1.4 Study site

The Balranald Mine site is north of Balranald in south-west NSW. Access to the Balranald Mine site is approximately 12 km north of the Balranald township (Figure 1). From there, the project site itself extends approximately 60 km to the north-northwest.

For long-term monitoring of Malleefowl, three permanent monitoring sites (each 2 x 2 km) were established towards the southern end of the project site in December 2023 (EMM 2024) (Figure 1). Access to and within these locations is limited to foot only, with some limited vehicle access to the perimeter of the sites.

Within the Balranald Mine site is the MOD1 approval area, which is defined as the 'modified' area that contains all activities associated with the mining operation, construction, operations, haul road, rehabilitation and associated infrastructure and activities (Figure 1). Within and up to 200 m from the approved MOD1 disturbance boundary, monitoring is required of existing known Malleefowl mounds, and surveys for new mounds within suitable Malleefowl habitat are also required to identify any new mounds that may need to be protected during the breeding season (Sep-Feb).

The sites selected as part of this monitoring program are intended to form part of the National Malleefowl Monitoring System. Monitoring Malleefowl in relation to the Balranald Mine provides an opportunity to satisfy aim 2 of the National Malleefowl Monitoring System, namely 'interpret breeding density trends in the light of management practices and environmental variables'.

1.5 Previous assessments

ArcGIS data shows information from seven previous Malleefowl mound assessments relating to the project:

- OEH 2013
- Ecotone 2013
- Niche 2015
- EMM 2022
- BWM 2023 (pre-clearance work)
- EMM 2024 (Baseline monitoring)
- GHD 2024 monitoring

2. Methods

Four ecologists undertook the Malleefowl monitoring between 20 – 21 October 2025. Daily teams were formed as required from our Mildura-based ecology team: Alex Holmes, Dan Eyles, Will Wilson and James Howells.

2.1 Malleefowl Habitat and Mound Monitoring

The annual Malleefowl monitoring comprises two parts:

– Monitoring of the three established 2 x 2 km sites, and
– Monitoring of the area up to 200 m from the approved MOD1 disturbance boundary.

According to the MMMSP, annual monitoring of three 2 x 2 km sites is required between September and February (Malleefowl breeding season). For this assessment, monitoring of those sites was undertaken in late October. Monitoring immediately following rainfall was avoided, as rainfall could cause prints to be less obvious or completely washed away.

At each of the three sites, habitat condition was assessed by percentage cover of each vegetation stratum (ground-cover grass, ground-cover herbs, ground-cover other, small shrubs, medium shrubs, large shrubs and leaf litter) and a site photo was taken. Previously known mounds were visited, and the location of new mounds were recorded.

For the monitoring of the area up to 200 m from the approved MOD1 disturbance boundary, existing (i.e., previously known and documented) mounds were visited and details recorded, and survey was undertaken for new mounds, to identify all mounds that may need to be protected during the breeding season (Sep-Feb).

For all monitoring, ground surveys were conducted in accordance with the National Malleefowl Monitoring Manual. At each mound, condition and activity was assessed using the 1 to 6 profile rating system of the National Malleefowl Monitoring Manual to define mound size, use and age. Data were collected in the field using datasheets from the MMMSP, and the following information was recorded at each mound identified:

– Observer and date.
– Site and mound number.
– GPS location of mound.
– Mound dimensions and profiles.
– Malleefowl activity (i.e. the occurrence of litter trails or any other signs that may indicate the mound is being prepared for breeding).
– Prints or tracks on the mound (i.e., Malleefowl, Fox, Kangaroo, other).
– Signs of predation (e.g., evidence of eggshell or feathers) (searched for at active mounds in a 20 m radius around the mound).
– Mound status including active mounds, leaf litter present, inactive mounds or long-unused mounds. Mound status was assessed as per definitions provided in the MMMSP, p16 (active mound, leaf litter present, inactive mound, long-unused mound).

Data will be provided to Iluka in MS Excel spreadsheets (for contribution to a long-term monitoring dataset and for Iluka to hold on file). Raw data sets will be sent to the National Malleefowl monitoring program.

2.2 Cameras

With site-knowledge input from Iluka's environment team, GHD deployed motion-sensing cameras at selected locations, in an effort to record Malleefowl activity around mounds and chick hatchings. GHD deployed five motion-sensing cameras at five active mounds. Cameras were retrieved by Iluka in early November, when breeding was expected to have ceased. Results from the cameras aimed to determine or confirm nest activity and predator activity around the mounds.

2.3 Permits

This monitoring was undertaken in accordance with conditions identified under Scientific License (license number SL100146) under section 132c of the NSW NPW Act 1974, and in accordance with the Standard Operating Procedures in place under GHD's animal ethics committee.

3. Results

3.1 Malleefowl mounds

During the monitoring, fifty-eight mounds were found and assessed. Two mounds numbered 13 and 17 were not found – thought to be destroyed in Haul Rd construction. They were both assessed as 'inactive' before 2024 and classified no longer a mound/imperceptible in 2024 by GHD. The locations of the mounds are shown in Figure 1 and are summarised as follows:

– Area 1: 4 mounds
– Area 2: 22 mounds
– Area 3: 23 mounds
– Haul Road (in 200 m buffer area): 9 mounds

Twenty-one of the mounds were 'active': ten in Area 2 (mounds 1, 5, 24, 25, 27, 29, 31, 33, 34 and 36), eight in Area 3 (mounds 7, 10, 37, 38, 39, 40, 44 and 45) and three along the northern end of the Haul Road (mounds 18, 49 and 51).

Nineteen of the fifty-eight mounds had been detected and assessed in previous survey events. Determining corresponding previous identification numbers to some mounds was found to be difficult due to mound identification not being shown on the baseline monitoring maps (EMM 2024). The history of mound assessment is shown in Appendix B. Photographs of mounds in October 2024 and 2025 are shown in Appendix C.

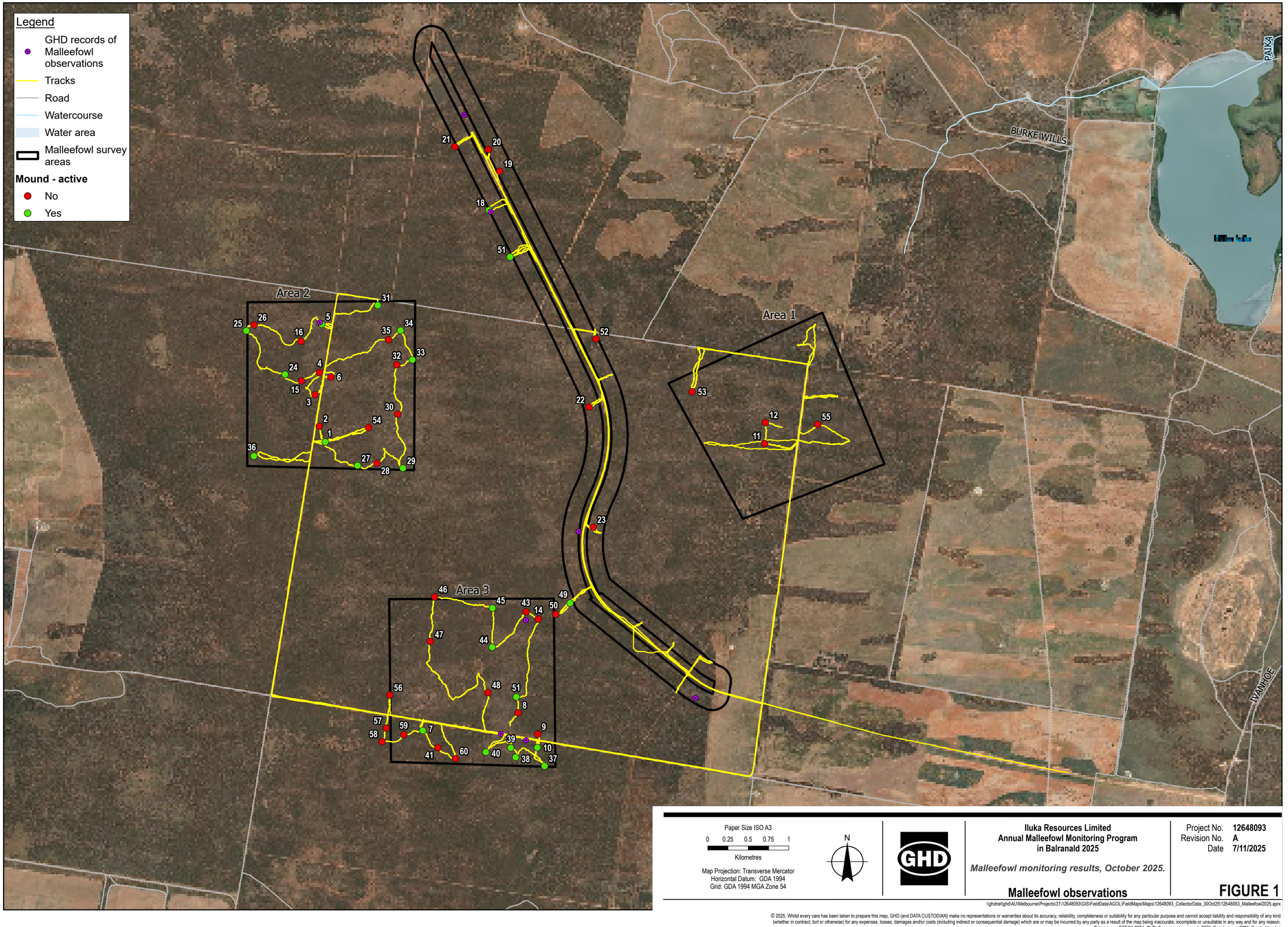
All mounds assessed as 'active' during the previous October 2024 monitoring had been detected in previous surveys; however, only three of those active mounds (mounds 4, 5 and 7) were assessed as part of the baseline monitoring (EMM 2024), because the baseline monitoring did not include the 200 m buffer area along the Haul Road.

Of the five mounds that have ever been assessed as 'active' in years past, one was found to be active in the October 2024 survey (mound 5 in Area 2). As of the October 2025 study, this mound was considered still active. Of the 10 additional mounds that were ever assessed as 'potentially active' in years past, four were found to be active in the October 2024 survey (mounds 1, 4, 7, 10; two in Area 2 and two in Area 3). Of these mounds assessed as 'active' during the previous October 2024 monitoring, all are still considered active with the exception of Mound 4 in Area 2 that shows no recent signs of activity and has been categorised as 'inactive' following the October 2025 survey.

Of the two mounds that have been assessed as 'inactive' in past years, mound 18 was found to be active in the previous October 2024 survey, while mound 20 was found to be 'long-unused'. The results from the October 2025 survey reflect concordant results – mound 20 is 'long-unused' whilst mound 18 shows recent signs of activity such as fresh feathers on top the mound.

ArcGIS data show another 15 mounds in the general area that were not considered for this monitoring. Four of those mounds no longer exist (destroyed as part of the Iluka operations) and nine lie outside the designated survey area for annual monitoring.

Two mounds known from previous surveys that lie within the monitoring survey area (BWM8 along the Haul Road, and Ecotone FID38 in Area 1) were not assessed during the October 2024 or October 2025 monitoring. BWM8 was assessed as 'inactive' in pre-clearance surveys in 2023 and subsequently destroyed during the haul road construction, while Ecotone FID38 was assessed as 'inactive' by EMM (2024) and deemed to no longer be a mound in 2024 by GHD, as it has likely degraded to the point of no longer being perceptible.



Paper Size ISO A3

0 0.25 0.5 0.75 1

Kilometres

Map Projection: Transverse Mercator
Horizontal Datum: GDA 1994
Grid: GDA 1994 MGA Zone 54

N

Iluka Resources Limited
Annual Malleefowl Monitoring Program in Balranald 2025

Malleefowl monitoring results, October 2025.

Malleefowl observations

Project No. **12648093**
Revision No. **A**
Date **7/11/2025**

FIGURE 1

\\ghdnet\ghd\AU\Melbourne\Projects\31\12648093\GIS\FieldData\AGOL\FieldMaps\Maps\12648093_CollectorData_30Oct25\12648093_Malleefowl2025.aprx

© 2025. Whilst every care has been taken to prepare this map, GHD (and DATA CUSTODIAN) make no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and cannot accept liability and responsibility of any kind (whether in contract, tort or otherwise) for any expenses, losses, damages and/or costs (including indirect or consequential damage) which are or may be incurred by any party as a result of the map being inaccurate, incomplete or unsuitable in any way and for any reason.
Data source: DEECA 2024; GHD: Survey areas, mounds 2025; Esri: Imagery 2025; Created by:xlee

Table 1 Malleefowl mounds assessed by GHD in October 2025.

Mound number	Site	Active, as assessed (Y/N)	Active (camera)	Notes	Recorded historically? (Y/N)	When observed previously?
1	Area 2	y	Y		y	Niche 2015, GHD 2024
2	Area 2	n			y	Niche 2015, EMM 2024, GHD 2024
3	Area 2	n			y	Ecotone 2013, Niche 2015, EMM 2024, GHD 2024
4	Area 2	n			y	Ecotone 2013, Niche 2015, EMM 2024, GHD 2024
5	Area 2	y	Y	Lots of activity – mound contains litter	y	Ecotone 2013, Niche 2015, EMM 2024, GHD 2024
6	Area 2	n			y	GHD 2024
7	Area 3	y	Y		y	EMM 2024, GHD 2024
8	Area 3	n			y	Niche 2015, GHD 2024
9	Area 3	n			y	EMM 2024, GHD 2024
10	Area 3	y	Y		y	Niche 2015, GHD 2024
11	Area 1	n			y	EMM 2024, GHD 2024
12	Area 1	n			y	Ecotone 2013, EMM 2024, GHD 2024
13	N/A	n		Mound destroyed	y, long inactive	Likely previously Ecotone 2013 (FID38)
14	Area 3	n			y	Niche 2015, GHD 2024
15	Area 2	n			y	GHD 2024
16	Area 2	n			y	GHD 2024
17	N/A	n		Mound destroyed	y, long inactive	Likely BWM 2023 (BWM8)
18	Haul Road	y		Malleefowl feathers found on top mound	y	BWM 2023, GHD 2024
19	Haul Road	n			y	Niche 2015, EMM 2022, BWM 2023, GHD 2024
20	Haul Road	n			y	BWM 2023, GHD 2024
21	Haul Road	n		Mound is long extinct with no LiDAR point	y	Niche 2015, GHD 2024
22	Haul Road	n			y	Ecotone 2013, Niche 2015, EMM 2022, BWM 2023, GHD 2024

Mound number	Site	Active, as assessed (Y/N)	Active (camera)	Notes	Recorded historically? (Y/N)	When observed previously?
23	Haul Road	n			y	GHD 2024
24	Area 2	y		Likely a new mound/in early stage of development	n	
25	Area 2	y		Lots of activity – mound is full of litter	n	
26	Area 2	n			n	
27	Area 2	y			n	
28	Area 2	n			n	
29	Area 2	y			n	
30	Area 2	n			n	
31	Area 2	y			n	
32	Area 2	n			n	
33	Area 2	y		Malleefowl feathers found on top mound	n	
34	Area 2	y			n	
35	Area 2	n			n	
36	Area 2	y		Potentially an old mound being reused	n	
37	Area 3	y		Likely a new mound	n	
38	Area 3	y		Likely a new mound, being built up still	n	
39	Area 3	y		Likely a new mound	n	
40	Area 3	y			n	
41	Area 3	n			n	
42	Area 3	n			n	
43	Area 3	n			n	
44	Area 3	y		Malleefowl feathers found on top mound	n	
45	Area 3	y			n	
46	Area 3	n			n	
47	Area 3	n			n	
48	Area 3	n			n	

Mound number	Site	Active, as assessed (Y/N)	Active (camera)	Notes	Recorded historically? (Y/N)	When observed previously?
49	Haul Road	y			n	
50	Area 3	n		Malleefowl feathers found just outside the mound area	n	
51	Haul Road	y	Y		n	
52	Haul Road	n		Mound is long extinct	n	
53	Area 1	n			n	
54	Area 2	n			n	
55	Area 1	n			n	
56	Area 3	n			n	
57	Area 3	n			n	
58	Area 3	n			n	
59	Area 3	n			n	
60	Area 3	n			n	

3.2 Malleefowl sightings

During the monitoring in October 2025, evidence of several Malleefowl were recorded. Malleefowl prints were recorded at 29 locations and Malleefowl scats at 10 locations (Table 2). No birds were seen on mounds in person, but Malleefowl were captured on all five camera traps.

ArcGIS information showed fifteen observations of Malleefowl birds, prints or feathers from previous surveys (Table 3).

Table 2 Malleefowl evidence in October 2025

Observation	Location	Date	Count	Notes
footprint	Haul Road	21/10/2025	4	just outside area, feathers
footprint	Area 3	21/10/2025	12	
footprint	Area 2	20/10/2025	13	around newly formed mound, lots of activity
scat	Haul Road	21/10/2025	2	
scat	Area 3	21/10/2025	2	
scat	Area 2	20/10/2025	6	feathers, fresh scat
bird	Haul Road	22/10/2025	1	Near mound 51
bird	Area 2	20/10/2025	1	Near mound 1

Table 3 Malleefowl sightings in previous surveys

Observation	Survey	Location	Count	Notes
footprint	Ecotone 2013	Area 2	1	on road, not far from Mound 5
footprint	Ecotone 2013	Area 1	1	
footprint	Ecotone 2013	Area 1	1	near mound 12
footprint	Ecotone 2013	Outside monitoring area (southwest of Area 1)	1	
bird	Ecotone 2013	Outside monitoring area (southwest of Area 1)	1	
bird	Ecotone 2013	Outside monitoring area (southwest of Area 1)	1	near mound Niche FID9
bird	Niche 2015	Outside monitoring area (southwest of Area 1)	1	
footprint	Niche 2015	Outside monitoring area (southwest of Area 1)	1	
footprint	Niche 2015	Area 3	1	on road
footprint	Niche 2015	Outside monitoring area (south of Area 2)	1	
footprint	Niche 2015	Outside monitoring area (south of Area 2)	1	
bird	EMM 2023	Haul Road	1	near Mound 22
footprint	EMM 2023	Haul Road	1	near Mound 19
feather	EMM 2023	Haul Road	1	near Mound 22
footprint	EMM 2023	Haul Road	1	
bird	GHD 2024	Area 2	1	bird seen, working mound 5 (active)
bird	GHD 2024	Area 3	1	near mound 14 (inactive)
bird	GHD 2024	Haul Road	2	near mound 18 (active)
bird	GHD 2024	Haul Road	1	
bird	GHD 2024	Haul Road	1	near mound 23 (inactive)
bird	GHD 2024	Haul Road	1	

3.3 Cameras

The five cameras resulted in more than 4,308 images (Table 4). Four of the five mounds monitored by cameras shows signs of recent Malleefowl activity. All images of Malleefowl were of adult birds rather than chicks. At every mound, up to two birds were seen attending the mounds and moving sand and leaf litter around; representative images are shown in Table 5.

No chick hatching was observed.

Four of the five mounds monitored by cameras shows signs of feral predator activity – cats, foxes, pigs. There were no goats observed on the cameras. Mound 5 (Area 2) showed particularly high activity of foxes.

Table 4 Results of cameras deployed at mounds

Camera #	Mound ID	Location	# images	Malleefowl detected?	Red Fox detected?	Cat detected?	Pig detected?	Other native species
M39	51	Haul Road	2641	Y	N	N	N	Currawong, White-eared Honeyeater
M37	5	Area 2	1042	Y	Y	Y	N	No
M23	7	Area 3	3002	Y	Y	N	Y	No
M20	1	Area 2	2655	Y	Y	N	N	Eastern Grey Kangaroo
M19	10	Area 3	264	N	Y	N	N	Common Bronzewing, Eastern Grey Kangaroo

Table 5 Images of Malleefowl from motion-sensing cameras

Mound 10



Mound 1



Mound 7



Mound 5



Mound 51



3.4 Weather

The weather during the monitoring was appropriate for mound assessment, with clear skies, no rainfall and mild to warm temperatures. The two-week period prior to the monitoring saw 0 mm of rainfall at Balranald, none of which fell in the week prior to monitoring (last rain: 0.2 mm on September 22nd).

Table 6 Temperature and rainfall during the monitoring (recorded at Mildura)

Date	Min temp (C)	Max temp (C)	Rain (mm)
20 October 2025	15.2	32.7	0
21 October 2025	13.2	22.1	0

4. Discussion

This assessment report documents the number of breeding birds observed to be inhabiting selected sites across the project area, which is the primary aim of the monitoring program, in accordance with the National Malleefowl Monitoring Manual (National Malleefowl Recovery Team, 2020). The sites selected for this monitoring program form part of the National Malleefowl Monitoring System.

The Malleefowl mound counts and the Malleefowl bird sightings made by GHD in October 2025 are greater to counts made in previous survey and monitoring events. The number of active mounds reported (21) is more than the six reported by GHD (2024) and the three reported by EMM (2024), but the EMM (2024) monitoring did not include the haul road area.

This survey had a larger sample size of fifty-eight mounds within the three areas and haul road due to the addition of the mounds located via the LiDAR assessment. The twenty-one active mounds found across Area 2, Area 3 and the Haul Road sites provides a greater survey effort and sample size to track and assess Malleefowl breeding activity and potential disturbance from the project and other impacts such a pest predators.

The use of motion-sensing cameras at active mounds illustrated that feral animals continue to be a threat to Malleefowl breeding success. Images of feral predators (foxes, pigs and cats) were common at some mounds and are of greatest concern. This result indicates that the feral predator control efforts to date (fox baiting in February and May 2024 and pig baiting in March and May 2024, with 45 pig carcasses found thereafter; B. Isaacs, Iluka, pers. comm.) need to be continued and possibly increased to reduce the threat to acceptably low levels.

Monitoring questions:

As a result of the monitoring thus far, the research questions below can be responded to as follows:

– *Is vegetation clearing, increased noise and lighting resulting in a negative impact on Malleefowl breeding activity adjacent to the West Balranald Mine – Stage 1?*
  Vegetation clearing resulted in the documented destruction of some Malleefowl mounds, which is certainly a short-term negative impact during construction. However, no birds were known to be injured or killed, so all breeding pairs near the mine site retain the opportunity to re-build existing inactive mounds or create new mounds. Of the known mounds that were not destroyed during construction, there is no clear evidence of negative impact during mine operation, in terms of numbers of Malleefowl and mounds detected in the general area during this monitoring. The increase in the number of active Malleefowl mounds detected suggests that mine site activity is not necessarily causing negative impacts or decline on the Malleefowl community in the study areas.
– Is *fox and feral predator control under the BMP having a positive impact on Malleefowl breeding activity?*
  Despite control efforts to this point, feral predators continue to be prevalent at every mound that was monitored and therefore continue to pose a threat to Malleefowl and their eggs and chicks. Increased control efforts, resulting in reduced numbers of feral predators, particularly foxes and pigs, are required before it can be concluded that control efforts are having a positive impact on Malleefowl breeding activity.

– *Are bushfires having a negative impact on Malleefowl breeding activity?*
  Not applicable – no bushfires have been recorded in the area since mine construction.
– *Are Malleefowl constructing new nests in rehabilitation areas?*
  Not *applicable* – no areas have yet reached the rehabilitation stage.

5. Recommendations

Future management and monitoring of the site for Malleefowl should include:

– Continue or increase control efforts for the most prevalent feral predators – foxes and pigs.
– Consider targeted cat-control methods to reduce or eradicate the local population of cats, possibly shooting, or use of the Felixer trap.
– Implement control methods for goats, to reduce the vegetation damage they cause to Malleefowl habitat
– Enforce slow traffic speed limits on any roads that pass close to known mounds or through Malleefowl high-use areas.
– Continue to monitor known mounds and birds.

6. References

Benshemesh, J.S. and Emison W.B. (1996). Surveying breeding densities of Malleefowl using an airborne thermal scanner. Wildlife Research, 23:121-141.

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Appendices

Appendix A

Field Data 2024 & 2025

Date	Site	Lidar #	observers	Nest number	Sought (Y/x)	Found (y/x)	Staked (y/x)	Tagged (y/x)	Active (Y/N)	Profile	X sticks	Scraped (Y/N)	Eggshell (n/s/l)	Fire since last monitored? (Y/N)	Prints - Malleefowl	Prints - Fox	Prints - Kangaroo	Prints - other	Scats - Malleefowl	Scats - Fox	Scats - Kangaroo	Scats - other	outer nest - crust (n/s/l)	outer nest - moss (n/s/l)	outer nest - herb (n/s/l)	outer nest - shrub (n/s/l)	outer nest - tree (n/s/l)	inner nest - crust (n/s/l)	inner nest - moss (n/s/l)	inner nest - herb (n/s/l)	inner nest - shrub (n/s/l)	inner nest - tree (n/s/l)	Dimensions - Perimeter diameter (cm)	Dimensions - Rim diameter (cm)	Dimensions - Height North (cm)	Dimensions - Height South (cm)	Photo taken (Y/N)	x sticks replaced (Y/N)	Notes	crater depth
8/10/2024	Area 2	N/A	WW, DE, AH, EP	**1**	y	y	y	n	y	4	na	na	s	n	y				y				n	n	n	n	n	n	n	n	n	n	430	120	68	66	y	y		0
8/10/2024	Area 2	N/A	WW, DE, AH, EP	**2**	y	y	n	n	n	1			n	n		y		y (raven)		y			n	n	n	y	n	n	n	n	s	n	550	230	41	39	y	y		30
8/10/2024	Area 2	N/A	WW, DE, AH, EP	**3**	y	y	n	n	n	6			n	n		y		y (emu)			y		n	s	n	s	n	n	n	n	s	n	330	210	3	2	y	y		20
8/10/2024	Area 2	N/A	WW, DE, AH, EP	**4**	y	y	y	y	y	5	absent		s	n	y				y	y			n	n	n	n	n	n	n	n	n	n	350	150	98	75	y	y		15
8/10/2024	Area 2	N/A	WW, DE, AH, EP	**5**	y	y	n	y	y	3			l	n	y				y	y	y		n	n	n	n	n	n	n	n	n	n	600	210	85	82	y	n	malleefowl on mound	35
8/10/2024	Area 2	N/A	WW, DE, AH, EP	**6**	n	y	n	n	n	1			s	n						y			n	n	n	n	n	n	n	n	n	n	420	150	72	65	y	y		41
8/10/2024	Area 3	N/A	WW, DE, AH, EP	**7**	y	y	y	y	y	5			s	n	y				y	y			n	n	n	n	n	n	n	n	n	n	810	170	36	41	y	y		0
8/10/2024	Area 3	N/A	WW, DE, AH, EP	**8**	y	y	n	n	n	6			n	n									n	n	n	n	n	n	n	n	y	n	390	180	25	28	y	n		2
8/10/2024	Area 3	N/A	WW, DE,	**9**	y	y	n	n	n	1			n	n							y	y (goat)	n	n	n	n	n	n	n	n	n	n	250	150	10	5	y	y		40

Date	Site	Lidar #	observers	**Nest number**	Sought (Y/x)	Found (y/x)	Staked (y/x)	Tagged (y/x)	Active (Y/N)	Profile	X sticks	Scraped (Y/N)	Eggshell (n/s/l)	Fire since last monitored? (Y/N)	Prints - Malleefowl	Prints - Fox	Prints - Kangaroo	Prints - other	Scats - Malleefowl	Scats - Fox	Scats - Kangaroo	Scats - other	outer nest - crust (n/s/l)	outer nest - moss (n/s/l)	outer nest - herb (n/s/l)	outer nest - shrub (n/s/l)	outer nest - tree (n/s/l)	inner nest - crust (n/s/l)	inner nest - moss (n/s/l)	inner nest - herb (n/s/l)	inner nest - shrub (n/s/l)	inner nest - tree (n/s/l)	Dimensions - Perimeter diameter (cm)	Dimensions - Rim diameter (cm)	Dimensions - Height North (cm)	Dimensions - Height South (cm)	Photo taken (Y/N)	x sticks replaced (Y/N)	Notes	crater depth
			AH, EP																																					
8/10/2024	Area 3	N/A	WW, DE, AH, EP	**10**	y	y			y	3		y	n	n	y						y	y (echidna)	n	n	n	n	n	n	n	n	n	n	470	150	30	30	y	y		0
9/10/2024	Area 1	N/A	WW, EP	**11**	y	y	x	x	n	1			s	n			y				y		n	n	n	n	n						150	150	30	35	y	y		0
9/10/2024	Area 1	N/A	WW, EP	**12**	y	y	x	x	n	1			s	n				y (bird)		y	y		n	n	n	n	n						410	200	34	36	y	y		2
9/10/2024	Area 1	N/A	WW, EP	**13**	y											y																					y		raised ground. Does not appear to be MFMound	
9/10/2024	Area 3	N/A	WW, EP	**14**	y	y	x	x	n	1			s	n		y		y (bird)		y	y		n	n	n	n	n						361	211	13	19	y	y		3
9/10/2024	Area 2	N/A	WW, EP	**15**	x	y	x	x	n	1			s	n						y			n	n	y	n	n	n	n	n	y	n	355	390	33	35	y	y	Fox appears to have dug in middle	8
9/10/2024	Area 2	N/A	WW, EP	**16**	x	y	x	x	n	6			s	n						y	y		n	n	s	s	n	n	n	s	l	n	520	190	42	24	y	y		25
10/10/2024	Haul Road	N/A	WW, EP	**17**	y	x																																	potentially destroyed	
10/10/2024	Haul Road	N/A	WW, EP	**18**	y	y	y		y	2			s	n	y				y				n	n	n	n	n	n	n	n	n	n	380	105	60	55	y	n	two malleefowl present	25

Date	Site	Lidar #	observers	**Nest number**	Sought (Y/x)	Found (y/x)	Staked (y/x)	Tagged (y/x)	Active (Y/N)	Profile	X sticks	Scraped (Y/N)	Eggshell (n/s/l)	Fire since last monitored? (Y/N)	Prints - Malleefowl	Prints - Fox	Prints - Kangaroo	Prints - other	Scats - Malleefowl	Scats - Fox	Scats - Kangaroo	Scats - other	outer nest - crust (n/s/l)	outer nest - moss (n/s/l)	outer nest - herb (n/s/l)	outer nest - shrub (n/s/l)	outer nest - tree (n/s/l)	inner nest - crust (n/s/l)	inner nest - moss (n/s/l)	inner nest - herb (n/s/l)	inner nest - shrub (n/s/l)	inner nest - tree (n/s/l)	Dimensions - Perimeter diameter (cm)	Dimensions - Rim diameter (cm)	Dimensions - Height North (cm)	Dimensions - Height South (cm)	Photo taken (Y/N)	x sticks replaced (Y/N)	Notes	crater depth
10/10/2024	Haul Road	N/A	WW, EP	**19**	y	y	x	x	n	6	present and undisturbed		s	n		y				y	y		n	n	n	s	n	n	n	n	n	n	500	190	21	24	y	n		0
10/10/2024	Haul Road	N/A	WW, EP	**20**	y	y	x	x	n	6			n	n							y		l	n	n	l	n	l	n	n	s	n	445	205	24	24	y	y		0
10/10/2024	Haul Road	N/A	WW, EP	**21**	y	y	x	x	n	6			n	n								y (goat)	l	n	n	s	n	l	s	n	s	n	480	210	0	0	y	y		5
11/10/2024	Haul Road	N/A	WW, EP	**22**	y	y	y	y	n	2			l	n							Y		n	n	n	n	n	n	n	n	n	n	410	180	40	48	y	y	Iluka camera present	4
11/10/2024	Haul Road	N/A	WW, EP	**23**	x	y	x	x	n	1			s	n						Y			n	n	n	s	n	n	n	s	s	n	210	120	22	28	y	y		28
21/10/2025	Area 1	56	JH, WW	**11**	Y	Y	X	X	N	6	P	N	S	N	N	N	N	N	N	Y	N	Y – goat	N	N	N	N	N	N	N	N	N	N	480	200	40	36	Y	Y		
21/10/2025	Area 1	550	JH, WW	**12**	Y	Y	X	X	N	1	A	N	S	N	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	494	275	35	43	Y	Y		
21/10/2025	Area 1	1262	JH, WW	**53**	Y	Y	X	X	N	6	A	N	S	N	N	N	N	N	N	N	Y	Y – goat	N	L	S	N	N	N	S	S	N	N	425	150	15	2	Y	N		
21/10/2025	Area 1	553	JH, WW	**55**	Y	Y	X	X	N	6	A	N	S	N	N	N	N	N	N	N	Y	Y – goat	S	S	N	S	S	S	S	N	N	N	320	190	21	28	Y	N		
21/10/2025	Haul Road	427	JH, WW	**49**	Y	Y	X	X	Y	2	A	Y	L	N	N	N	N	N	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	252	165	39	40	Y	Y	Just outside area	
21/10/2025	Haul Road	599	JH, WW	**22**	Y	Y	X	X	N	1	A	Y	S	N	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	407	198	46	43	Y	N		
21/10/2025	Haul Road	790	JH, WW	**51**	Y	Y	X	X	Y	5	A	Y	L	N	Y	N	N	N	N	Y	N	N	N	N	N	N	N	S	N	N	N	N	364	246	32	31	Y	Y	Camera installed.	
21/10/2025	Haul Road	832	JH, WW	**18**	Y	Y	X	X	Y	4	A	Y	L	N	Y	N	N	Y - goat	N	N	Y	Y – goat	N	N	N	N	N	N	N	N	N	N	449	0	92	92	Y	N	feathers	

Date	Site	Lidar #	observers	**Nest number**	Sought (Y/x)	Found (y/x)	Staked (y/x)	Tagged (y/x)	Active (Y/N)	Profile	X sticks	Scraped (Y/N)	Eggshell (n/s/l)	Fire since last monitored? (Y/N)	Prints - Malleefowl	Prints - Fox	Prints - Kangaroo	Prints - other	Scats - Malleefowl	Scats - Fox	Scats - Kangaroo	Scats - other	outer nest - crust (n/s/l)	outer nest - moss (n/s/l)	outer nest - herb (n/s/l)	outer nest - shrub (n/s/l)	outer nest - tree (n/s/l)	inner nest - crust (n/s/l)	inner nest - moss (n/s/l)	inner nest - herb (n/s/l)	inner nest - shrub (n/s/l)	inner nest - tree (n/s/l)	Dimensions - Perimeter diameter (cm)	Dimensions - Rim diameter (cm)	Dimensions - Height North (cm)	Dimensions - Height South (cm)	Photo taken (Y/N)	x sticks replaced (Y/N)	Notes	crater depth
21/10/2025	Haul Road	N/A	JH, WW	**21**	Y	Y	X	X	N	6	P	N	N	N	N	N	N	N	N	N	N	N	L	N	N	S	N	L	N	N	S	N	410	370	5	3	Y	N	No Lidar point, mound extinct	
21/10/2025	Haul Road	944	JH, WW	**20**	Y	Y	X	X	N	6	A	N	N	N	N	N	N	N	N	N	N	N	N	N	S	S	N	N	N	N	N	N	430	240	41	44	Y	N		
21/10/2025	Haul Road	921	JH, WW	**19**	Y	Y	X	X	N	1	A	N	S	N	Y	Y	N	N	Y	Y	Y	Y - goat	N	N	N	N	N	N	N	N	N	N	458	150	17	28	Y	N		
21/10/2025	Haul Road	674	JH, WW	**52**	Y	Y	X	X	N	6	A	N	N	N	N	N	N	N	N	N	N	N	L	N	S	S	S	L	N	S	S	N	425	203	21	37		N	Long extinct mound	
21/10/2025	Haul Road	555	JH, WW	**23**	Y	Y	X	X	N	1	A	N	S	N	N	N	N	N	N	N	Y	N	N	N	S	S	N	N	N	S	N	N	353	178	35	33	Y	Y		
20/10/2025	Area 3	603	WW, AH	**56**	Y	Y	X	X	N	3	A	N	S	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	383	152	41	39	Y	Y	recently active	
20/10/2025	Area 3	52	WW, AH	**57**	Y	Y	X	X	N	1	A	N	S	N	N	N	N	N	N	N	N	N	N	N	S	S	S	N	N	N	S	S	390	212	11	13	Y	Y		
20/10/2025	Area 3	51	WW, AH	**58**	Y	Y	X	X	N	1	A	N	S	N	Y	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	S	N	N	447	272	58	49	Y	Y		
20/10/2025	Area 3	47	WW, AH	**59**	Y	Y	X	X	N	6	A	N	N	N	N	N	N	N	N	N	Y	N	N	N	S	S	N	N	N	S	N	N	421	0	16	13	Y	N	extinct	
20/10/2025	Area 3	660	WW, AH	**7**	Y	Y	X	X	Y	5	A	N	S	N	Y	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	430	310	30	28	Y	Y	Camera installed.	
20/10/2025	Area 3	494	WW, AH	**41**	Y	Y	X	X	N	1	A	N	S	N	Y	Y	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	354	287	28	33	Y	N		
20/10/2025	Area 3	503	WW, AH	**60**	Y	Y	X	X	N	1	A	N	N	N	N	N	N	N	N	N	N	N	N	N	S	N	N	N	N	S	N	N	323	143	8	6	Y	N		
20/10/2025	Area 2	177	WW, AH	**4**	Y	Y	Y	X	N	1	P	N	S	N	N	N	N	N	N	N	Y	N	N	N	N	N	S	N	N	S	N	N	429	209	45	48	Y	Y		

Date	Site	Lidar #	observers	Nest number	Sought (Y/x)	Found (y/x)	Staked (y/x)	Tagged (y/x)	Active (Y/N)	Profile	X sticks	Scraped (Y/N)	Eggshell (n/s/l)	Fire since last monitored? (Y/N)	Prints - Malleefowl	Prints - Fox	Prints - Kangaroo	Prints - other	Scats - Malleefowl	Scats - Fox	Scats - Kangaroo	Scats - other	outer nest - crust (n/s/l)	outer nest - moss (n/s/l)	outer nest - herb (n/s/l)	outer nest - shrub (n/s/l)	outer nest - tree (n/s/l)	inner nest - crust (n/s/l)	inner nest - moss (n/s/l)	inner nest - herb (n/s/l)	inner nest - shrub (n/s/l)	inner nest - tree (n/s/l)	Dimensions - Perimeter diameter (cm)	Dimensions - Rim diameter (cm)	Dimensions - Height North (cm)	Dimensions - Height South (cm)	Photo taken (Y/N)	x sticks replaced (Y/N)	Notes	crater depth
20/10/2025	Area 2	150	WW, AH	**6**	Y	Y	X	X	N	1	P	N	N	N	N	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	S	N	N	410	196	42	38	Y	Y		
20/10/2025	Area 2	165	WW, AH	**2**	Y	Y	X	X	N	1	P	N	S	N	N	N	N	N	N	Y	Y	N	N	N	N	N	N	N	N	S	N	N	417	124	33	18	Y	Y		
20/10/2025	Area 2	74	WW, AH	**1**	Y	Y	Y	X	Y	5	A	N	L	N	Y	N	N	N	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N	369	227	57	57	Y	Y	Lots of feathers, Camera installed.	
20/10/2025	Area 2	75	WW, AH	**27**	Y	Y	X	X	Y	4	A	N	L	N	Y	N	N	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	428	0	76	76	Y	Y	No crater	
20/10/2025	Area 2	232	WW, AH	**28**	Y	Y	X	X	N	6	A	N	N	N	Y	N	N	N	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N	0	150	0	0	Y	Y	Flat, Crater dug	
20/10/2025	Area 2	229	WW, AH	**29**	Y	Y	X	X	Y	4	A	N	L	N	Y	N	N	N	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N	462	0	62	62	Y	Y		
20/10/2025	Area 2	562	WW, AH	**30**	Y	Y	X	X	N	1	A	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	347	182	10	14	Y	N		
20/10/2025	Area 2	667	WW, AH	**32**	Y	Y	X	X	N	1	A	N	N	N	Y	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	365	105	17	14	Y	N		
20/10/2025	Area 2	19	WW, AH	**33**	Y	Y	X	X	Y	4	A	N	L	N	Y	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	434	0	90	90	Y	Y	feathers	
20/10/2025	Area 2	424	WW, AH	**34**	Y	Y	X	X	Y	5	A	N	S	N	Y	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	320	250	18	21	Y	Y		
20/10/2025	Area 2	425	WW, AH	**35**	Y	Y	X	X	N	3	A	N	S	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	319	274	38	43	Y	Y		
20/10/2025	Area 2	174	JH, DE	**15**	Y	Y	X	X	N	4	D	Y	S	N	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	410	160	40	50	Y	Y		
20/10/2025	Area 2	N/A	JH, DE	**24**	Y	Y	X	X	Y	3	A	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	520	0	55	55	Y	Y	Early stage mound,	

Date	Site	Lidar #	observers	**Nest number**	Sought (Y/x)	Found (y/x)	Staked (y/x)	Tagged (y/x)	Active (Y/N)	Profile	X sticks	Scraped (Y/N)	Eggshell (n/s/l)	Fire since last monitored? (Y/N)	Prints - Malleefowl	Prints - Fox	Prints - Kangaroo	Prints - other	Scats - Malleefowl	Scats - Fox	Scats - Kangaroo	Scats - other	outer nest - crust (n/s/l)	outer nest - moss (n/s/l)	outer nest - herb (n/s/l)	outer nest - shrub (n/s/l)	outer nest - tree (n/s/l)	inner nest - crust (n/s/l)	inner nest - moss (n/s/l)	inner nest - herb (n/s/l)	inner nest - shrub (n/s/l)	inner nest - tree (n/s/l)	Dimensions - Perimeter diameter (cm)	Dimensions - Rim diameter (cm)	Dimensions - Height North (cm)	Dimensions - Height South (cm)	Photo taken (Y/N)	x sticks replaced (Y/N)	Notes	crater depth
																																							peak, no rim	
20/10/2025	Area 2	N/A	JH, DE	**25**	Y	Y	X	X	Y	2	A	Y	L	N	N	N	N	N	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	670	350	60	50	Y	Y	Full of litter, just outside study area	
20/10/2025	Area 2	57	JH, DE	**26**	Y	Y	X	X	N	1	A	Y	S	N	Y	Y	N	Y – goanna	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	570	220	55	50	Y	Y		
20/10/2025	Area 2	828	JH, DE	**16**	Y	Y	X	X	N	1	D	Y	S	N	N	Y	N	Y - goanna	N	N	N	N	N	N	S	N	N	N	N	S	N	N	650	300	55	25	Y	Y		
20/10/2025	Area 2	830	JH, DE	**5**	Y	Y	Y	X	Y	3	D	Y	L	N	Y	N	N	N	N	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	680	0	80	80	Y	Y	Lots of activity. Camera installed.	
20/10/2025	Area 2	138	JH, DE	**31**	Y	Y	X	X	Y	2	A	Y	S	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	400	280	5	10	Y	Y	Mostly just a hole, possibly inactive	
20/10/2025	Area 2	N/A	JH, DE	**3**	Y	Y	X	X	N	6	A	N	N	N	N	N	N	N	N	N	N	N	S	N	N	S	N	N	N	N	S	N	550	320	10	10	Y	N	still extinct	
20/10/2025	Area 2	20	JH, DE	**36**	Y	Y	X	X	Y	2	A	Y	S	N	N	Y	N	N	N	Y	Y	N	N	N	S	N	N	N	N	N	N	N	N	730	290	40	35	Y	Y	Possibly old mound being reused	
20/10/2025	Area 2	503	JH, DE	**54**	Y	Y	X	X	N	6	A	N	S	N	Y	Y	N	N	N	Y	Y	Y - goat	N	N	S	N	N	N	N	N	N	N	N	500	188	15	16	Y	Y		
20/10/2025	Area 3	415	JH, DE	**10**	Y	Y	Y	X	Y	2	A	Y	S	N	Y	N	N	N	Y	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	320	180	35	40	Y	Y	Camera installed.	

Date	Site	Lidar #	observers	**Nest number**	Sought (V/x)	Found (v/x)	Staked (v/x)	Tagged (v/x)	Active (Y/N)	Profile	X sticks	Scraped (Y/N)	Eggshell (n/s/l)	Fire since last monitored? (Y/N)	Prints - Malleefowl	Prints - Fox	Prints - Kangaroo	Prints - other	Scats - Malleefowl	Scats - Fox	Scats - Kangaroo	Scats - other	outer nest - crust (n/s/l)	outer nest - moss (n/s/l)	outer nest - herb (n/s/l)	outer nest - shrub (n/s/l)	outer nest - tree (n/s/l)	inner nest - crust (n/s/l)	inner nest - moss (n/s/l)	inner nest - herb (n/s/l)	inner nest - shrub (n/s/l)	inner nest - tree (n/s/l)	Dimensions - Perimeter diameter (cm)	Dimensions - Rim diameter (cm)	Dimensions - Height North (cm)	Dimensions - Height South (cm)	Photo taken (Y/N)	x sticks replaced (Y/N)	Notes	crater depth
20/10/2025	Area 3	163	JH, DE	**37**	Y	Y	X	X	Y	2	A	Y	N	N	Y	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	390	300	10	15	Y	Y	Likely new	
20/10/2025	Area 3	437	JH, DE	**38**	Y	Y	X	X	Y	3	A	Y	S	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	410	280	25	30	Y	Y	Likely new being built	
20/10/2025	Area 3	439	JH, DE	**39**	Y	Y	X	X	Y	2	A	Y	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	350	300	5	10	Y	Y	Likely new	
20/10/2025	Area 3	354	JH, DE	**40**	Y	Y	X	X	Y	3	A	Y	S	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	350	200	25	25	Y	Y	Lots of leaves, quite flat	
21/10/2025	Area 3	740	JH, WW	**8**	Y	Y	X	X	N	6	A	Y	S	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	S	N	N	448	166	19	20	Y	N		
21/10/2025	Area 3	749	JH, WW	**42**	Y	Y	X	X	N	1	A	Y	L	N	N	N	N	N	N	Y	Y	Y – goat	N	N	N	N	N	N	N	N	N	N	N	398	239	25	35	Y	N		
21/10/2025	Area 3	1545	JH, WW	**14**	Y	Y	X	X	N	6	D	Y	S	N	N	N	N	N	N	N	N	N	N	N	S	N	N	N	N	N	N	N	N	412	0	8	11	Y	N		
21/10/2025	Area 3	1550	JH, WW	**43**	Y	Y	X	X	N	1	A	N	L	N	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	345	167	35	32	Y	N		
21/10/2025	Area 3	1517	JH, WW	**44**	Y	Y	X	X	Y	3	A	Y	L	N	Y	N	N	N	Y	Y	Y	N	N	N	N	N	N	N	N	N	N	N	N	481	228	61	39	Y	Y	feathers	
21/10/2025	Area 3	1338	JH, WW	**45**	Y	Y	X	X	Y	4	A	N	L	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	499	0	95	95	Y	Y		
21/10/2025	Area 3	1140	JH, WW	**46**	Y	Y	X	X	N	6	A	N	S	N	N	N	N	Y - goat	N	N	N	N	N	N	S	N	N	N	N	S	N	N	428	179	29	32	Y	N		
21/10/2025	Area 3	1340	JH, WW	**47**	Y	Y	X	X	N	1	A	N	S	N	N	N	N	N	N	N	Y	N	N	N	S	N	N	N	N	L	N	N	443	229	45	32	Y	N	Long inactive	
21/10/2025	Area 3	725	JH, WW	**48**	Y	Y	X	X	N	1	A	N	S	N	Y	N	N	N	N	Y	N	Y - goat	N	N	N	N	N	N	N	N	N	N	N	367	169	38	32	Y	N		

Date	Site	Lidar #	observers	**Nest number**	Sought (Y/x)	Found (y/x)	Staked (y/x)	Tagged (y/x)	Active (Y/N)	Profile	X sticks	Scraped (Y/N)	Eggshell (n/s/l)	Fire since last monitored? (Y/N)	Prints - Malleefowl	Prints - Fox	Prints - Kangaroo	Prints - other	Scats - Malleefowl	Scats - Fox	Scats - Kangaroo	Scats - other	outer nest - crust (n/s/l)	outer nest - moss (n/s/l)	outer nest - herb (n/s/l)	outer nest - shrub (n/s/l)	outer nest - tree (n/s/l)	inner nest - crust (n/s/l)	inner nest - moss (n/s/l)	inner nest - herb (n/s/l)	inner nest - shrub (n/s/l)	inner nest - tree (n/s/l)	Dimensions - Perimeter diameter (cm)	Dimensions - Rim diameter (cm)	Dimensions - Height North (cm)	Dimensions - Height South (cm)	Photo taken (Y/N)	x sticks replaced (Y/N)	Notes	crater depth
21/10/2025	Area 3	465	JH, WW	**9**	Y	Y	X	X	N	2	A	N	S	N	N	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	318	226	11	15	Y	N	Recently active	
21/10/2025	Area 3	709	JH, WW	**50**	Y	Y	X	X	N	1	A	N	S	N	Y	N	N	N	N	Y	N	N	N	N	N	N	N	N	N	N	N	N	N	466	179	10	27	Y	N	Just outside area, feathers	
N/A	N/A	N/A	N/A	**13**	X	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mound destroyed	
N/A	N/A	N/A	N/A	**17**	X	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Mound destroyed	

Appendix B

Mound Assessments - history

Mound ID	Location	Date last visited (GHD 2025)	GHD 2025	GHD 2024	EMM 2024	BWM 2023	EMM 2022	Niche 2015	Ecotone 2013	OEH 2013	Notes
1	Area 2	20-Oct-25	a	a				pa			two mounds from Niche? 27 and 32
2	Area 2	20-Oct-25	ina	ina	a			pa			EMM 2024 Mound 1; fid 50
3	Area 2	20-Oct-25	lum	lum	ina			pa	pa		EMM 2024 Mound 2; fid 51
4	Area 2	20-Oct-25	ina	a	ina			pa	pa		EMM 2024 Mound 3; fid 52
5	Area 2	20-Oct-25	a	a	a			pa	pa		Malleefowl present. EMM 2024 Mound 4; fid 53
6	Area 2	20-Oct-25	ina	ina							not recorded before GHD 2024
7	Area 3	20-Oct-25	a	a	ina						
8	Area 3	21-Oct-25	lum	lum				pa			
9	Area 3	21-Oct-25	ina	ina	ina						
10	Area 3	20-Oct-25	a	a				pa			
11	Area 1	21-Oct-25	ina	ina	ina						EMM 2024 Mound 9
12	Area 1	21-Oct-25	ina	ina	a				pa		EMM 2024 Mound 10
13	Area 1	9-Oct-24	d	not considered mound	ina (if Ecotone FID38)				pa (if Ecotone FID38)		Not mound. Likely to be Ecotone FID38.
14	Area 3	21-Oct-25	ina	ina				pa			
15	Area 2	20-Oct-25	ina	ina							not recorded before GHD 2024
16	Area 2	20-Oct-25	lum	lum							not recorded before GHD 2024

Mound ID	Location	Date last visited (GHD 2025)	GHD 2025	GHD 2024	EMM 2024	BWM 2023	EMM 2022	Niche 2015	Ecotone 2013	OEH 2013	Notes
17	Haul Road	10-Oct-24	d	not found, potentially destroyed							could this be BWM8?
18	Haul Road	21-Oct-25	a	a		ina					BWM9
19	Haul Road	21-Oct-25	lum	lum		ina	a	pa			BWM6
20	Haul Road	21-Oct-25	lum	lum		ina					BWM10
21	Haul Road	21-Oct-25	lum	lum				pa			
22	Haul Road	21-Oct-25	ina	ina		a	a	pa	pa		BWM2, active, protected
23	Haul Road	21-Oct-25	ina	ina							not recorded before GHD 2024
24	Area 2	20-Oct-25	a								not recorded before GHD 2025
25	Area 2	20-Oct-25	a								not recorded before GHD 2025
26	Area 2	20-Oct-25	ina								not recorded before GHD 2025
27	Area 2	20-Oct-25	a								not recorded before GHD 2025
28	Area 2	20-Oct-25	ina								not recorded before GHD 2025
29	Area 2	20-Oct-25	a								not recorded before GHD 2025
30	Area 2	20-Oct-25	ina								not recorded before GHD 2025
31	Area 2	20-Oct-25	a								not recorded before GHD 2025
32	Area 2	20-Oct-25	ina								not recorded before GHD 2025
33	Area 2	20-Oct-25	a								not recorded before GHD 2025
34	Area 2	20-Oct-25	a								not recorded before GHD 2025

Mound ID	Location	Date last visited (GHD 2025)	GHD 2025	GHD 2024	EMM 2024	BWM 2023	EMM 2022	Niche 2015	Ecotone 2013	OEH 2013	Notes
35	Area 2	20-Oct-25	ina								not recorded before GHD 2025
36	Area 2	20-Oct-25	a								not recorded before GHD 2025
37	Area 3	20-Oct-25	a								not recorded before GHD 2025
38	Area 3	20-Oct-25	a								not recorded before GHD 2025
39	Area 3	20-Oct-25	a								not recorded before GHD 2025
40	Area 3	20-Oct-25	a								not recorded before GHD 2025
41	Area 3	20-Oct-25	ina								not recorded before GHD 2025
42	Area 3	21-Oct-25	ina								not recorded before GHD 2025
43	Area 3	21-Oct-25	ina								not recorded before GHD 2025
44	Area 3	21-Oct-25	a								not recorded before GHD 2025
45	Area 3	21-Oct-25	a								not recorded before GHD 2025
46	Area 3	21-Oct-25	ina								not recorded before GHD 2025
47	Area 3	21-Oct-25	ina								not recorded before GHD 2025
48	Area 3	21-Oct-25	ina								not recorded before GHD 2025
49	Haul Road	21-Oct-25	a								not recorded before GHD 2025
50	Area 3	21-Oct-25	ina								not recorded before GHD 2025
51	Haul Road	21-Oct-25	a								not recorded before GHD 2025
52	Haul Road	21-Oct-25	ina								not recorded before GHD 2025
53	Area 1	21-Oct-25	ina								not recorded before GHD 2025

Mound ID	Location	Date last visited (GHD 2025)	GHD 2025	GHD 2024	EMM 2024	BWM 2023	EMM 2022	Niche 2015	Ecotone 2013	OEH 2013	Notes
54	Area 2	20-Oct-25	ina								not recorded before GHD 2025
55	Area 1	21-Oct-25	ina								not recorded before GHD 2025
56	Area 3	20-Oct-25	ina								not recorded before GHD 2025
57	Area 3	20-Oct-25	ina								not recorded before GHD 2025
58	Area 3	20-Oct-25	ina								not recorded before GHD 2025
59	Area 3	20-Oct-25	ina								not recorded before GHD 2025
60	Area 3	20-Oct-25	ina								not recorded before GHD 2025
BWM7	oma	-				activity not noted		a	pa		avoided
BWM8	Haul Road	-		lum (if Mound 17)		ina					Potentially Mound 17
Ecotone FID22	oma	-						a			
Ecotone FID30	oma	-						a			
Ecotone FID31	oma	-						pa			
Ecotone FID38	Area 1	-		lum (if Mound 13)	ina				pa		Visited, but no waypoint made. Potentially Mound 13
Niche FID11	oma	-						pa			
Niche FID12 13	oma	-						pa			two mounds?
Niche FID20	oma	-						pa			
Niche FID9	oma	-						pa			

Mound ID	Location	Date last visited (GHD 2025)	GHD 2025	GHD 2024	EMM 2024	BWM 2023	EMM 2022	Niche 2015	Ecotone 2013	OEH 2013	Notes
OEH FID33	oma	-								pa	

a	active
pa	potentially active
ina	inactive
lum	long-unused mound
oma	outside monitoring area
d	destroyed

Appendix C

Images of mounds



Mound 1 - 2024



Mound 1 - 2025



Mound 2 - 2024



Mound 2 - 2025



Mound 3 - 2024



Mound 3 - 2025



Mound 4 - 2024



Mound 4 - 2025

 Mound 5 - 2024	 Mound 5 - 2025
 Mound 6 - 2024	 Mound 6 - 2025
 Mound 7 - 2024	 Mound 7 - 2025
 Mound 8 - 2024	 Mound 8 - 2025

 Mound 9 - 2024	 Mound 9 - 2025
 Mound 10 - 2024	 Mound 10 - 2025
 Mound 11 - 2024	 Mound 11 - 2025
 Mound 12 - 2024	 Mound 12 – 2025
No photo Mound 13	No photo Mound 17

 Mound 14 - 2024	 Mound 14 - 2025
 Mound 15 - 2024	 Mound 15 - 2025
 Mound 16 - 2024	 Mound 16 – 2025
 Mound 18 - 2024	 Mound 18 - 2025



Mound 19 - 2024



Mound 19 - 2025



Mound 20 - 2024



Mound 20 - 2025



Mound 21 - 2024



Mound 21 – 2025



Mound 22 - 2024



Mound 22 - 2025



Mound 23 - 2024



Mound 23 - 2025



Mound 24 - 2025



Mound 25 - 2025



Mound 26 - 2025



Mound 27 - 2025



Mound 28 - 2025



Mound 29 - 2025



Mound 30 - 2025



Mound 31 - 2025



Mound 32 - 2025



Mound 33 - 2025



Mound 34 - 2025



Mound 35 - 2025



Mound 36 - 2025



Mound 37 - 2025



Mound 38 - 2025



Mound 39 - 2025



Mound 40 - 2025



Mound 41 - 2025



Mound 42 - 2025



Mound 43 - 2025



Mound 44 - 2025



Mound 45 - 2025



Mound 46 - 2025



Mound 47 - 2025



Mound 48 - 2025



Mound 49 - 2025



Mound 50 - 2025



Mound 51 - 2025



Mound 52 - 2025

	
Mound 53 – 2025	Mound 54 - 2025
	Photo not taken
Mound 55 - 2025	Mound 56 - 2025
	
Mound 57 - 2025	Mound 58 - 2025

	
Mound 59 - 2025	Mound 60 - 2025

Appendix D

Images of other native and non-native species 2024 & 2025

2024 - Red Fox (Mound 7)



2024 - Feral Cat (Mound 7)



2024 - Pig (Mound 10)



2024 - Goat (Mound 5)



2024 - Emu (Mound 7)



2024 - Kangaroo (Mound 1)



2025 – Red Fox (Mound 1)



2025 – Kangaroo (Mound 1)



2025 – Red Fox (Mound 5)



2025 – Red Fox (Mound 5)



2025 – Pig (Mound 7)



2025 – Red Fox (Mound 7)



2025 – Kangaroo (Mound 10)



2025 – Common bronzewing (Mound 10)

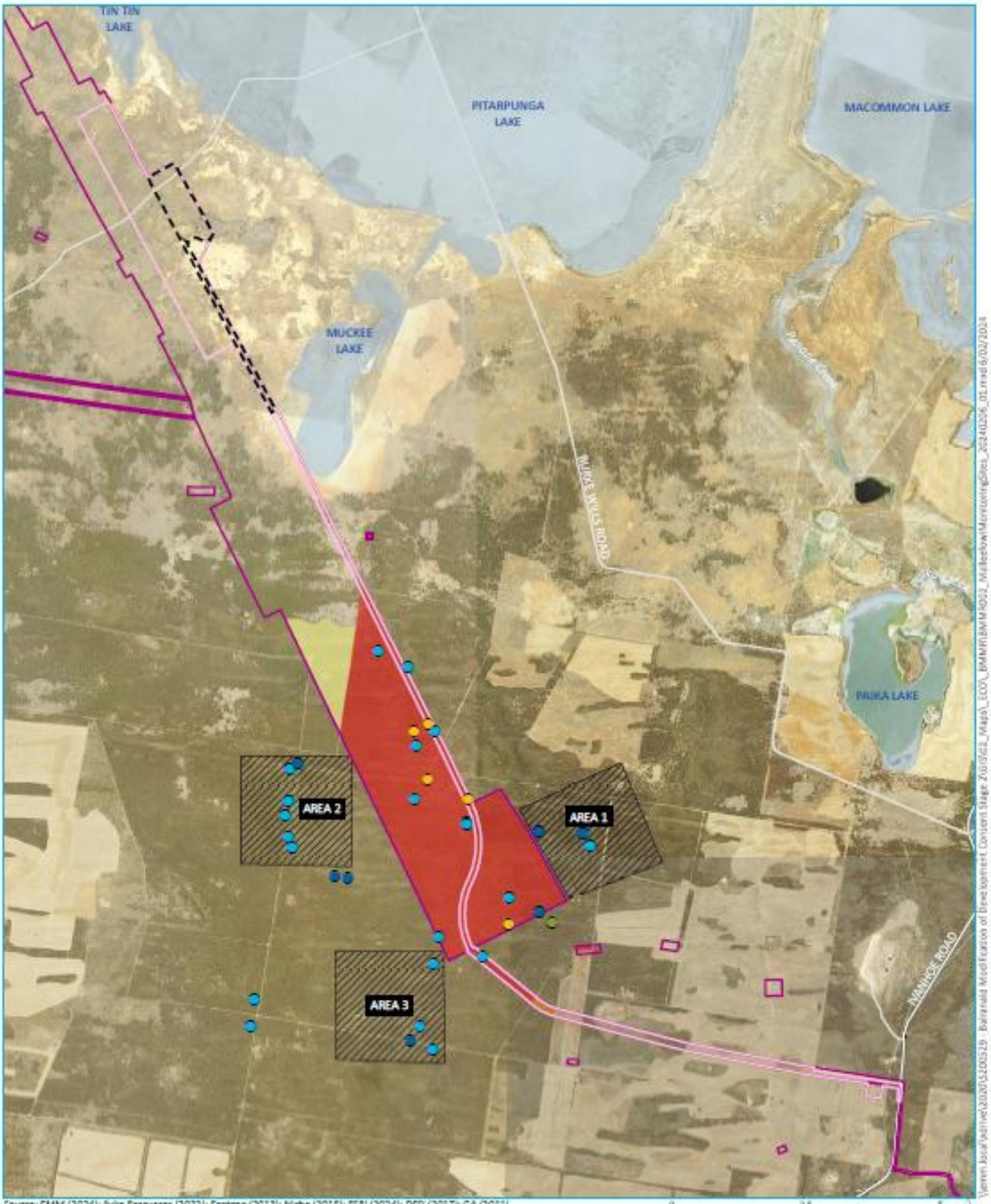


2025 – White-eared Honeyeater (Mound 51)



Appendix E

Historical map of mounds (Figure 2.1 from EMM 2024)



Source: EMM (2024); Bulla Resources (2022); Ecotone (2013); Niche (2015); ESRI (2024); DFSI (2017); GA (2021)

0 2.5 5 km

GDA 1994 MGA Zone 54

N

KEY

- Revised Balranald Project Area 2023
- Proposed MOD1 study area
- MOD1 additional disturbance area
- Drone area of interest

Existing environment

- Major road
- Minor road
- Named watercourse
- Named waterbody

Recorded Malleefowl locations

- Malleefowl location (Ecotone 2013, Niche 2015)
- Active Malleefowl mound (Niche 2015, EMM 2022)
- Potentially active Malleefowl mound (OEH 2013, Ecotone 2013, Niche 2015, EMM 2022)
- Track/print (Ecotone 2013, Niche 2015)

Malleefowl habitat potential

- Very High
- High

Malleefowl monitoring sites

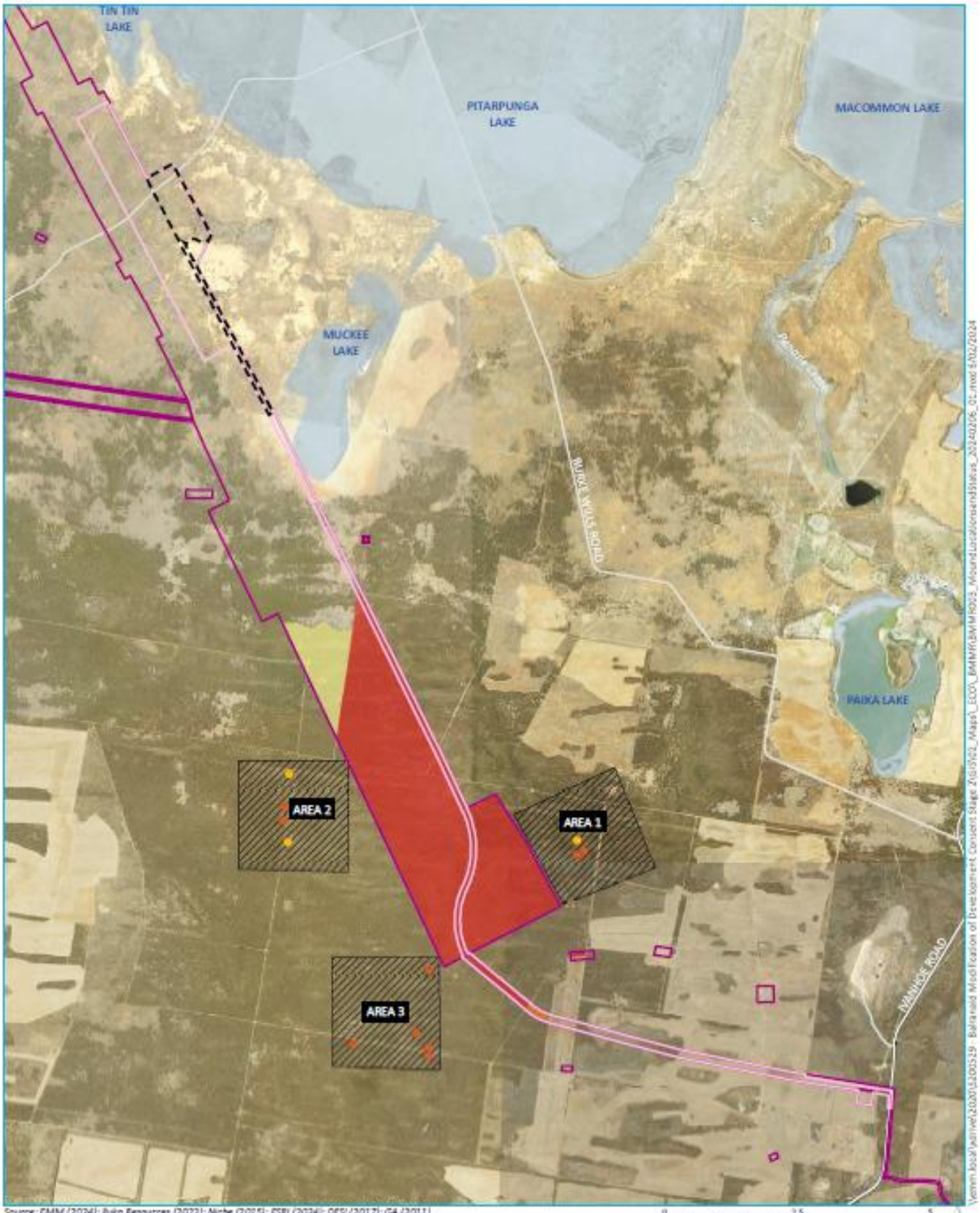
Balranald Mineral Sands Project
Baseline Malleefowl Monitoring Report
Figure 2.1

EMM

\\emm.local\all\Projects\620\05\620529 - Balranald Mod Expansion of Development Consent Stage 2\620529_Maps_ECO_BMMR\BMMR002_MalleefowlMonitoringSites_20240206_01.mxd 6/02/2024

Appendix F

Map of mounds from baseline monitoring (Figure 4.1 from EMM 2024)



Source: EMM (2024); Iluka Resources (2022); Niche (2015); ESRI (2024); DFSI (2017); GA (2011)

0 2.5 5 km
GDA 1994 MGA Zone 54

KEY

- Revised Balranald Project Area 2023
- Proposed MOD1 study area
- MOD1 additional disturbance area
- Drone area of interest

Existing environment

- Major road
- Minor road
- Named watercourse
- Named waterbody

Malleefowl mound location

- Active
- Not active

Malleefowl habitat potential

- Very High
- High
- Moderate

Mound locations and status

Balranald Mineral Sands Project
Baseline Malleefowl Monitoring Report
Figure 4.1

EMM
creating opportunities



ghd.com

→ The Power of Commitment

Appendix C – Notification of commencement of action

14 August 2023

Iluka Resources Limited

Level 17, 240 St Georges Terrace
Perth, WA, 6000

GPO Box U1988
Perth, WA, 6845

James Newman
Senior Assessment Officer
Department of Climate Change, Energy, the Environment and Water | Nature Positive Regulation Division
Environment Assessments (Vic, Tas) & Post Approvals

BALRANALD MINERAL SANDS PROJECT (EPBC ACT Ref 2012/6509)- COMMENCEMENT OF THE ACTION

Dear James,

Please accept this letter as notification for the commencement of the action in accordance with Condition 8 of EPBC Act Approval 2012/6509.

Iluka commenced the action on 9 August 2023, for the construction of the Underground Mining Trial.

Development to be carried out during construction includes:

- clearing of vegetation and stripping of topsoil and subsoil;
- 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 roadway.

Yours Sincerely



Brendan Isaacs | Senior Environmental Specialist | Balranald NSW
Iluka Resources Limited
78 Market Street, Balranald NSW 2715 |PO Box 241, Balranald NSW 2715
Mobile 0455 470 233

ILUKA

Appendix D - Biodiversity Management Plan commitments and implementation

Environmental management measure		Implementation comment
Pre-disturbance surveys	Pre-disturbance surveys conducted by a suitably qualified environmental professional in accordance with *Survey Guidelines for Australia's threatened birds* (DEWHA 2010) in the disturbance areas mapped as '*moderate, high and very high Malleefowl habitat potential*'.	No disturbance within Malleefowl habitat was undertaken during the reporting period.
Clearing limits	Clear delineation of vegetation clearing limits on the ground (e.g. helicopter tape, 'exclusion no-go' signage) prior to clearing.	No disturbance occurred within Malleefowl habitat or Corban's Long-eared Bat habitat during the reporting period.
	Restriction of vehicles and plant to designated roads and tracks.	There were no incidents where vehicles or plant entered un-disturbed areas.
	Designated areas for stockpiling of cleared vegetation and topsoil.	Felled trees were stockpiled for re-use in future rehabilitation programs and shrubs were stripped with topsoil and stockpiled in accordance with the site Rehabilitation Management Plan and Mine Plan.
	Awareness and education during the Iluka induction process.	Site Disturbance Permitting awareness training was delivered to clearing contractors prior to works requiring vegetation disturbance.
Timing restrictions on clearing	Malleefowl mounds identified during pre-disturbance surveys will be protected for the duration of that breeding season (September to end of February).	The 2025 Malleefowl monitoring program identified **3** active mounds adjacent to the access road. No clearing was undertaken within Malleefowl habitat during the reporting period.
	Vegetation clearing in medium, medium-high or high tree hollow density is restricted to November to April (inclusive).	No clearing was undertaken within the Corben's Long-eared bat habitat.

Environmental management measure		Implementation comment
Staged clearing of breeding habitat and active roosts	'Exclusion no-go' signage will be installed at each active or potentially active Malleefowl mound identified during pre-disturbance surveys. The no-go area will comprise a 200 m circular 'no go' exclusion buffer around the mound.	No clearing was undertaken in Malleefowl habitat during the reporting period.
	Each individual Malleefowl mound will be inspected by a suitably qualified environmental professional at the end of breeding season (February) to confirm that breeding has concluded.	No mounds were within 200m of clearing and clearing was undertaken outside the breeding season.
	Clearing of Malleefowl mounds and the 200 m buffer can occur following confirmation from a suitably qualified environmental professional that breeding has concluded at all identified active and potentially active mounds.	No mounds were within 200m of clearing and clearing was undertaken outside the breeding season
	All trees with hollows above 1 m height in Corben's Long-eared Bat habitat will be marked with a unique identifier prior clearing.	No clearing was undertaken within the Corben's Long-eared bat habitat.
	All non-hollow trees and trees with hollows below 1 m height within Corben's Long-eared Bat habitat will be cleared first.	No clearing was undertaken within the Corben's Long-eared bat habitat..
	All trees with hollows above 1 m height in Corben's Long-eared Bat habitat will be retained for two nights after surrounding vegetation has been cleared, prior to being felled.	No clearing was undertaken within the Corben's Long-eared bat habitat.

Environmental management measure		Implementation comment
Clearing supervision	A person with qualifications in environmental science, biology or ecology and demonstrated experience in Malleefowl management will be present prior to clearing activities in areas identified as '*moderate, high or very high Malleefowl habitat potential*' to confirm that breeding has concluded at all Malleefowl mounds prior to the commencement of mound clearing.	No clearing was undertaken with the Malleefowl habitat.
	All felled hollow-bearing timber will be left in-situ for 24 hours to allow hollow-dependent fauna to self-relocate or inspection by a suitably qualified environmental professional.	No clearing was undertaken within the Corben's Long-eared bat habitat.
Fire management	Bushfire mitigation will be in accordance with the *Emergency Control and Response Plan.* of this BMP.	Firebreaks were maintained by grading site fence lines and tracks during the reporting period.

Environmental management measure		Implementation comment
Pest, predator and weed management	Weeds will be managed as follows: • inspection of vehicles and mobile plant on site entry and exit. Appropriate wash down and containment of sediment if required; • inspections for declared weeds will be undertaken bi-annually and weeds will be controlled via scalping or chemical spraying; • herbicide will be applied in accordance with industry best practice; • weed control will be undertaken in a manner that will minimise soil disturbance; and • weeds will be managed in consultation with Western Local Land Services (LLS), Balranald Shire Council and NSW Department of Primary Industries (DPI) Agriculture.	Pre-mobilisation checks are completed for all new plant and equipment arriving to site. Records of such checks are maintained. Noxious and declared weed inspections are carried out during monthly environmental inspections. Weed mapping is undertaken biannually and control measures applied if required. Spraying of Bathurst Burr (Declared noxious) was undertaken in October and December 2025 and April 2026. Records of chemical application are maintained.
	The following techniques will be employed by a suitably qualified and licensed contractor/s: • baiting and fumigation of rabbit burrows; • mustering, trapping at water and shooting of goats; and • baiting for foxes and other feral predators (i.e. cats and pigs).	Baiting for foxes was undertaken in September 2025, February and September 2026 in conjunction with surrounding landholders. 200 1080 chicken wing baits were laid, with a focus in Malleefowl habitat areas.
Erosion and sediment management	Implement best practice erosion and sediment control measures within and surrounding the buffer and retained habitats.	The Water Management Plan for the site outlines the erosion and sediment controls measures implemented. Erosion and sediment controls are also outlined in the Site Disturbance Permits when required. Generally open areas are contained by constructing a 0.5m high bund wall or silt fencing to prevent turbid water discharge.
Speed limit restrictions	If an active or potentially active Malleefowl mound is identified within 250 m of the access road, and the normal sign-posted speed limit of the nearby access road is 100 km/h, a reduced speed limit of 60 km/h will be applied for that nearby section of road for the duration of the applicable breeding season.	Portable signs are in place for when the speed restrictions apply adjacent active or potentially active mounds adjacent the access road within 250m. Portable signs are in place 500m either side of the active mounds during breeding season.

Environmental management measure		Implementation comment
Dust and light spill management	A 200 m buffer will be designated around each identified Malleefowl mound will be identified.	No active or potentially active mounds identified within active work areas.
	Minimise the use of artificial lighting in the 200 m Malleefowl buffer.	No active or potentially active mounds identified within active work areas.
	Where artificial lighting is required within the buffer, directional lighting facing away from the Malleefowl mound(s) and retained habitats will be used if safe to do so.	No active or potentially active mounds identified within active work areas.