# Annual Compliance Report Feb 2023 – Feb 2024

## ML 6109, MPL 15 and MPL 92

## Honeymoon Uranium Mine

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# Table of Contents

Table of Contents ..... iv

List of Figures ..... v

List of Tables ..... v

1 Introduction ..... 7

1.1 Report Overview ..... 7
1.2 Mine Proponent ..... 9
1.3 Accountabilities and Authority ..... 9
1.4 Honeymoon Uranium Mine ..... 9

2 Description of Mining Activities ..... 12

2.1 Activities for this Reporting Period ..... 12
2.1.1 Mining Activities ..... 12
2.1.2 Restart Activities & Approvals ..... 12
2.2 Proposed Mining Activities for Next Reporting Period ..... 15
2.3 Exploration ..... 16
2.3.1 ML6109 ..... 16
2.4 Ore Reserves and Mineral Resources ..... 16

3 Compliance ..... 17

3.1 Air Quality ..... 17
3.1.1 Summary of Compliance with PEPR Outcomes and Lease Conditions ..... 17
3.1.2 Evidence of Compliance ..... 17
3.2 Soil ..... 18
3.2.1 Summary of Compliance with PEPR Outcomes and Lease Conditions ..... 18
3.2.2 Evidence of Compliance ..... 19
3.3 Surface Water ..... 22
3.3.1 Summary of Compliance with Lease Conditions ..... 22
3.3.2 Evidence of Compliance ..... 22
3.4 Groundwater ..... 22
3.4.1 Summary of Compliance with PEPR Outcomes and Lease Conditions ..... 22
3.4.2 Evidence of Compliance ..... 24
3.5 Mine Rehabilitation ..... 28
3.5.1 Summary of Compliance with Lease Conditions ..... 28
3.5.2 Evidence of Compliance ..... 28
3.6 Flora ..... 28
3.6.1 Summary of Compliance with PEPR Outcomes and Lease Conditions ..... 28
3.6.2 Evidence of Compliance ..... 29
3.7 Fauna ..... 34
3.7.1 Summary of Compliance with PEPR Outcomes and Lease Conditions ..... 34
3.7.2 Evidence of Compliance ..... 34
3.8 Indigenous Heritage ..... 35
3.8.1 Summary of Compliance with Outcomes and/or Lease Conditions ..... 35
3.8.2 Evidence of Compliance ..... 36
3.9 Waste ..... 38
3.9.1 Summary of Compliance with Lease Conditions ..... 38
3.9.2 Evidence of Compliance ..... 38
3.10 Safety, Security and Protection of Third Party Property ..... 38
3.10.1 Summary of Compliance with Outcomes and/or Lease Conditions ..... 38
3.10.2 Evidence of Compliance ..... 39

4 Rectification of Non-Compliances ....40
4.1 Non-Compliance for 2023-2024 Reporting Period....40
5 Management System and Regulatory Reviews ....41
5.1 Safety, Health, Environment and Radiation Management System Audit ....41
5.2 Changes to Regulatory Documentation....41
6 Verifications of Uncertainties ....43
7 Changes to Mining Operations and New Environmental Hazards ....44
7.1 Changes to Mining Operations ....44
7.2 New Environmental Hazards ....44
8 Other Information....45
8.1 Technical Reports ....45
8.2 National Pollutant Inventory Reporting ....45
9 References ....46
10 Definitions & Abbreviations....47

Appendix A – Checklist for Content of Compliance Report
Appendix B – Mining Lease Conditions
Appendix C – Groundwater Monitoring Results
Appendix D – Exploration Compliance Report

# List of Figures

Figure 1-1 Honeymoon mine area showing Mining Lease 6109 and Miscellaneous Purpose Licence 15 boundaries.... 11
Figure 2-1 Layout of new wellfields B1, B2 and B3 to be utilised during mining in the next reporting period.... 15
Figure 3-1 Average annual effective radiation dose for Honeymoon mine workers (combined-all workgroups and Admin/Camp workers) 2023. .... 18
Figure 3-2 Soil Stockpile locations Feb 24.... 21
Figure 3-3 Groundwater monitoring wells at and close to the ISR wellfield.... 26
Figure 3-4 Liquid waste disposal monitoring wells.... 27
Figure 3-5 Vegetation Clearance or Disturbance at Honeymoon Uranium Mine as of 7 Feb 2024, showing total extent and clearances permitted in reporting year (legend). .... 32
Figure 3-6 Operational weed and pest monitoring locations.... 33
Figure 3-7 Heritage exclusion areas within the ML & MPLs .... 37

# List of Tables

Table 1-1 Compliance report items .... 9
Table 1-2 Honeymoon mining tenements .... 9
Table 2-1 Summary of mine production data for Uranium Oxide Concentrate .... 12
Table 2-2 Summary of JORC Resource .... 16
Table 3-1 Outcomes / Lease Conditions, outcome achievement and measurement criteria for air quality – PEPR v14 .... 17

Table 3-2 Outcomes / Lease Conditions, outcome achievement and measurement criteria for soil – PEPR v14. ..... 18
Table 3-3 Environmental outcomes, measurement criteria and indicator criteria for soil – PEPR v14. ..... 19
Table 3-4 Environmental outcomes, measurement criteria and indicator criteria for surface water – Lease Conditions ..... 22
Table 3-5 Environmental outcomes, measurement criteria and compliance status for groundwater – PEPR v14 ..... 24
Table 3-6 Environmental outcomes, measurement criteria and compliance status for mine rehabilitation – Lease Conditions ..... 28
Table 3-7 Environmental outcomes, measurement criteria and compliance status for flora – PEPR v14 ..... 29
Table 3-8 Environmental outcomes, measurement criteria and compliance status for fauna – PEPR v14 ..... 34
Table 3-9 Environmental outcomes, measurement criteria and compliance status for Indigenous heritage – PEPR v14. ..... 36
Table 3-10 Environmental outcomes, measurement criteria and indicator criteria for waste – Lease Conditions ..... 38
Table 3-11 Environmental outcomes, measurement criteria and compliance status for safety, security and protection of third party property – PEPR v14. ..... 39

# 1 Introduction

## 1.1 Report Overview

The Honeymoon Mine annual compliance report is a compulsory report required under the conditions of the Honeymoon Uranium Mine (Honeymoon Mine) mining lease (ML) and associated miscellaneous purpose licenses (MPL).

This report assesses compliance with both mining lease conditions (Appendix A) and environmental objectives detailed in the Honeymoon Uranium Mine Program for Environment Protection and Rehabilitation (PEPR) v14, approved by the Department for Energy and Mining (DEM) on December 18, 2023.

The PEPR v14 has been used to assess compliance between February 8, 2023, to February 7, 2024.

This report has been prepared in accordance with the Terms of Reference (TOR) 009 for Mining Compliance Reports (DEM, 2020). Table 1-1 lists the items that are required to be addressed in the preparation of this compliance report and the section in which they can be found.

| Item Addressed | | Section |
|---|---|---|
| **Compliance Report Terms of Reference** | | |
| 4.1 | Public liability insurance | N/A[1] |
| 4.2 | General Information<br>a) Tenement details and number<br>b) Name of the tenement holder and mine operator<br>c) Name of the mine operation<br>d) General location details<br>e) Site contact details<br>f) Approved date of approved PEPR<br>g) Dates of the reporting period and report submission date<br>h) Report author and contact details | <br>1.1<br>1.1<br>1.4<br>1.2<br>1.2<br>1.1<br>1.1<br>Front Cover |
| 4.3 | Tenements<br>a) Summary list and status of currency of all tenements covered by the approved PEPR.<br>b) A plan(s) of the authorised operations showing all tenement boundaries covered by the approved PEPR. | <br>1.1<br>1.4 |
| 4.4 | Other approvals | 2.1.2 |
| 4.5 | Ore reserves and mineral resources | 2.3 |
| 4.6 | Mining, processing and waste storage activities | 2.1 |
| 4.7 | Compliance with environmental outcomes and leading indicator criteria<br>a) Provide a statement that operations were or were not compliant with each environmental outcome specified in the tenement conditions or PEPR supported by measurement criteria data that clearly demonstrates the conclusion that the environmental outcome was or was not fully achieved. | 3.0 |

[1] Provided separately at time of ACR submission.

| | | |
|---|---|---|
| | b) Summarise data relating to any leading indicator criteria in the approved PEPR if any leading indicator criteria have been or will become relevant to the operation of any control strategy. | |
| 4.8 | Compliance with non-outcome based tenement conditions<br>a) Provide a statement on the compliance status of any tenement conditions of the lease or licence that do not relate to an environmental outcome in the approved PEPR.<br>b) Evidence to support the statement of compliance | 3.0 |
| 4.9 | Rectification of non-compliances<br>Details of each non-compliance including;<br>a) Date<br>b) Specific outcome or tenement condition breached<br>c) Date of incident report submitted to government agencies<br>d) Cause of non-compliance<br>e) Actions taken or yet to be taken to rectify and prevent recurrence | 4.0 |
| 4.10 | Disturbance and rehabilitation activities<br>a) Total land disturbance, activity that created the disturbance during the reporting period<br>b) Rehabilitation works carried out in the reporting period<br>c) Amount of land where rehabilitation works are completed<br>d) Estimated amount of land to be rehabilitated in the next reporting period<br>e) Strategies implement to avoid or minimise disturbance<br>f) Potential improvements learned from previous rehabilitation activities | 3.6 |
| 4.11 | Reconciliation of native vegetation clearance<br>a) Approved maximum clearance in hectares<br>b) Clearance during the reporting period<br>c) Total cleared to date<br>d) Estimated clearance during the next reporting period | 3.6.2 |
| 4.12 | Environmental Protection and Diversity Conservation Act (EPBC) 1999 reporting | N/A[2] |
| 4.13 | Exempt land<br>a) Details of any exempt land within the tenement(s) and status. | N/A[3] |
| 4.14 | Complaints<br>a) Summary of any complaints raised by third parties for the reporting period | 3.10 |
| 4.15 | Management systems reviews<br>a) Summary of any management system reviews undertaken to ensure compliance with relevant conditions or environmental outcomes. | 5.0 |
| 4.16 | Verification of uncertainty<br>a) A description and status of works undertaken during the reporting period or proposed to be undertaken to address any identified uncertainties or assumptions made in the approved PEPR | 6.0 |
| 4.17 | Change to mining operations and emerging environmental hazards<br>a) A summary list of any changes to mining operations endorsed under the approved PEPR for the reporting period. | 7.0 |

[2] The Honeymoon operation is not regulated under the EPBC Act 1999
[3] No exempt land is contained within ML6109, MPL15 and MPL92

| | | |
|---|---|---|
| | b) A description of any new or emerging environmental hazards that apply, or appear to be arising, in relation to mining operations. | |
| 4.18 | Technical reports related to the achievement of environmental outcomes and/or tenement conditions | 8.1 |

*Table 1-1 Compliance report items*

This report has been prepared for all Honeymoon mining tenements, as listed in Table 1-2.

| Tenement | Tenement Number | Original Approval Date | Current Expiry Date |
|---|---|---|---|
| Honeymoon Mining Lease | ML 6109 | 20 February 2011 | 7 February 2042[4] |
| Miscellaneous Purpose License - Airstrip | MPL 15 | 8 June 1981 | 7 February 2042[4] |
| Miscellaneous Purpose License – Transmission line corridor | MPL 92 | 27 August 2007 | 7 February 2042[4] |

*Table 1-2 Honeymoon mining tenements*

## 1.2 Mine Proponent

Boss Uranium Pty Ltd is the owner and operator[5] of the Honeymoon Uranium Mining tenements.

Boss Uranium Pty Ltd and parent company Boss Energy Ltd (formerly Boss Resources Ltd), maintain an office at the Honeymoon Mine, an office in Adelaide and a head office in Perth, Western Australia. Contact details for Boss Energy Ltd and Boss Uranium Pty Ltd are:

Postal Address: PO Box 1311, Subiaco WA 6904

Telephone: 08 6263 4494

Facsimile: 08 9388 8824

Contact: Duncan Craib, Chief Executive Officer

## 1.3 Accountabilities and Authority

This compliance report provides a summary of all project activities for the reporting period.

Boss Energy Ltd is responsible for ensuring all activities at the mine were conducted in full compliance with statutory regulations and associated management systems from 8 February 2023 to 7 February 2024.

## 1.4 Honeymoon Uranium Mine

Honeymoon Mine is located on the arid plains between the Olary Ranges and Lake Frome, approximately 490 km north by road from Adelaide and approximately 80 km northwest by road from Broken Hill.

The Honeymoon uranium mineralisation is a paleochannel-type, sandstone-hosted uranium deposit contained within unconsolidated sands at a depth of approximately 80 to 120 m. The mineralisation is covered by Mining Lease (ML) 6109, which is situated within the Kalkaroo Pastoral Lease.

[4] Applications for tenement renewals were submitted to DEM Oct 2022, renewals are pending. (NB 20 year term was applied for).
[5] During the reporting period the mine was in a construction and commissioning phase. Uranium was not produced during the reporting year.

In addition to ML 6109, Boss Energy holds two adjacent Miscellaneous Purpose Licences (MPLs) (Figure 1-1):

- MPL 15: A 2.5 $km^2$ corridor that contains the Honeymoon Mine airstrip.
- MPL 92: An electricity transmission line corridor approximately 50 m wide and 50 km long, extending from the Barrier Highway to Honeymoon Mine.

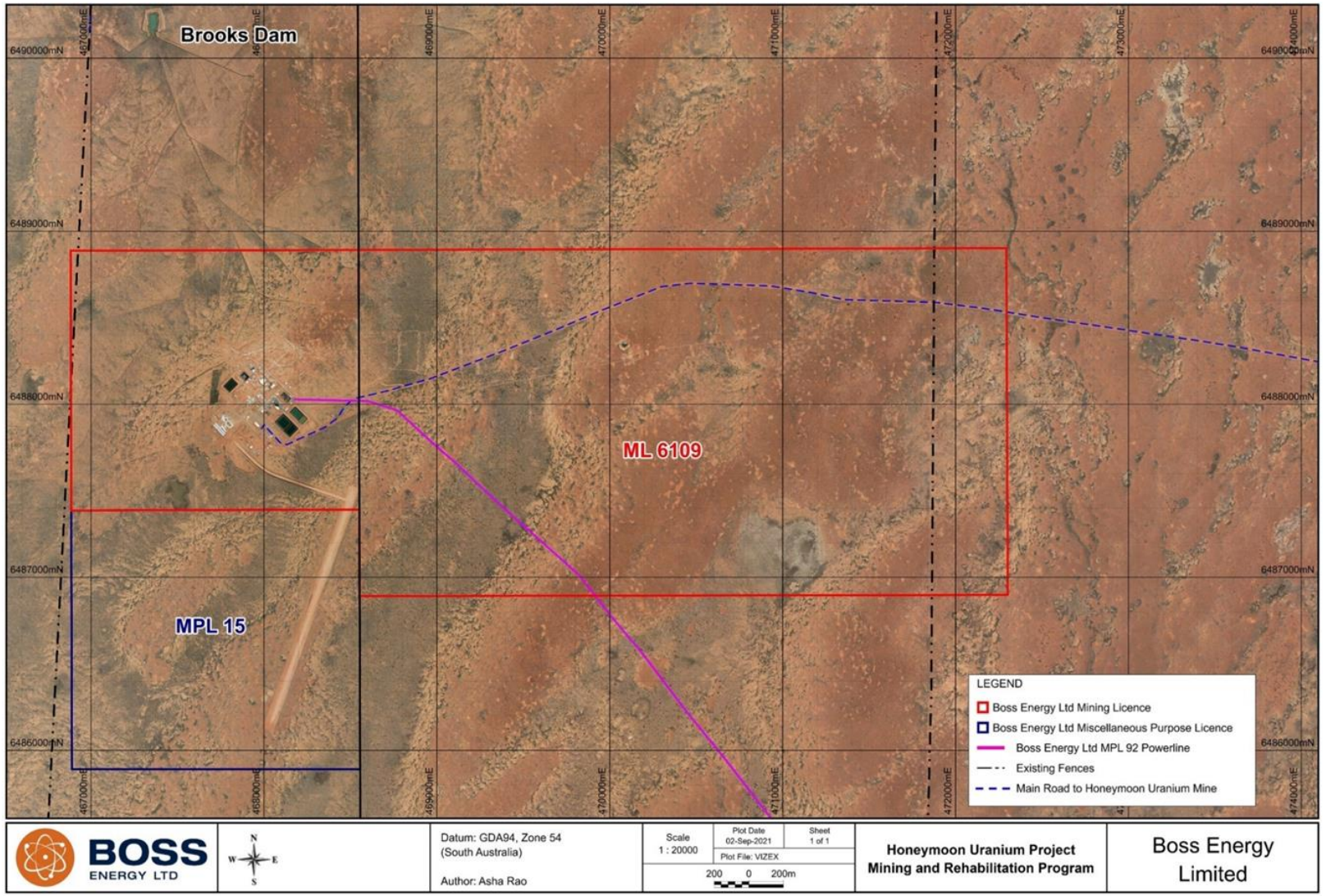



*Figure 1-1 Honeymoon mine area showing Mining Lease 6109 and Miscellaneous Purpose Licence 15 boundaries.*

# 2 Description of Mining Activities

## 2.1 Activities for this Reporting Period

### 2.1.1 Mining Activities

During the reporting period construction and refurbishment activities were underway.

The restart of Honeymoon Mine is underway, with stage 1 commissioning of the Wellfields commencing October 12, 2024 and the Water Treatment Plant and Gypsum Repository commissioned November 14, 2024. Stage 2 commissioning (Process Plant, Thickener, Drying and Packing) commenced March 17, 2024. Uranium production is anticipated in Q2 2024.

The proposed maximum production quantities of Uranium Oxide Concentrate anticipated in the next reporting period are detailed in Table 2-1 below.

No mining activities were undertaken during the reporting period (Table 2-1).

| Total Mined Since Lease Granted (Tonnes) | Total Mined This Reporting Period (Tonnes) | Total Planned Mining Next Reporting Period (Tonnes) |
|---|---|---|
| 364 | 0 | 160 |

*Table 2-1 Summary of mine production data for Uranium Oxide Concentrate*

### 2.1.2 Restart Activities & Approvals

On June 1, 2022, the Boss Energy Board made the final investment decision to reopen the Honeymoon project and to enter an 18-month period of construction and refurbishment.

A revision to the Program for Environment Protection and Rehabilitation (PEPR), to incorporate upgrades to the plant and wellfield area was prepared, was formally approved by the Department for Energy and Mining (DEM) on October 4, 2022 (PEPR revision v13). A further revision was completed and formally approved by DEM on December 18, 2023 (PEPR revision v14). The current approved version (Honeymoon Mine PEPR v14), includes the following key amendments:

- Appendix E Native Vegetation Management Plan (NVMP) updated to include revised proposed native vegetation clearance area (Figure 6.1).

On July 29 2022, Boss Energy formally notified regulatory agencies that restart activities had commenced and formal care and maintenance had concluded.

On October 14 2022, Boss Energy submitted a Decommissioning and Construction Management Plan to regulatory agencies, which was followed by a second and third version on December 2 2022 and January 24 respectively.

On July 27, 2023 the Decommissioning and Construction Management Plan, fourth version, was submitted to regulatory agencies. Approval was received on September 26 2023.

On September 26, 2023 approval was received for Stage 1 commissioning; operation of the Wellfields, Water Treatment Plant and Gypsum Repository. The Honeymoon Radiation Management Plan & Radioactive Waste Management Plan v7.0 (25 April 2014) and the Commissioning Radiation Management Plan v1.0 (18 May 2023) has been utilised during the period.

Stage 2 commissioning, for operation of the ion exchange, precipitation and drying and packing circuits approval was received March 12, 2024.

Other approvals include:

- The Radiation Management Plan & Radioactive Waste Management Plan (RMP & RWMP) v8 was approved March 8, 2024.
- The Physical Protection & Site Security Plan v1 was approved February 27, 2024.
- EPA licence 19643 was amended to include CL/6162/839 due to the revised wellfield B footprint extending beyond the boundary of CR6236/653 into CL/6162/839 (expiry Aug 2025). Approval received March 21, 2024.
- Permit to Possess Nuclear Material – Natural Uranium Ore Concentrate (PN146A)
- Permit to Possess Nuclear Material – Source Material and Special Fissionable Material (as per PN270)
- Renewal of Licence to Carry out Mining or Mineral Processing (Licence no. 50979)
- Renewal of Licence to Possess a Radiation Source (Licence no. 50360)

**Restart activities undertaken between February 8, 2023, and February 7, 2024, included:**

- Miscellaneous
    - Continued refurbishment of the accommodation camp and administration area.
    - Installation of new camp Waste Water Treatment Plant. New SA Health approval received (WWI-11235-1).
    - Upgrade to power, communication, and other key infrastructure.
    - Electrical and instrumentation review and testing.
    - Fencing upgrade and automated security gates installed.
    - Laboratory – Installation of XRF and ICP-OES machines, UPS & helium line in lab, fume cabinet repaired.
    - Refurbishment and testing of all pumps.
    - Upgrades to camp potable water reverse osmosis plant, hot water installations in various locations.
    - One replacement raw water bore installed and operational.
    - New fire water tank installed. Fire systems tested.
    - Emergency lighting safety showers and lighting review in all operational areas.
    - Training (Boss SWI/ procedural training, radiation/D&P training, respiratory protection, dogging, CV crane, telehandler, FEL, ERT, operations SWI rollout) and respiratory fit testing.
    - 90% of the required operational roles have been filled. Boss employment increased from 31 to 109 within the reporting period.
- Wellfields & Liquid Disposal Areas
    - Wellfield B1 commissioned, and pre-conditioning of the orebody commenced.
    - Wellfields B2 and B3 drilled with construction activities underway.
    - B4 drilling underway.
    - The extension of the monitoring well network – 6 monitoring wells drilled and integrity tested.
    - New liquid disposal wells were installed and associated infrastructure and pipework constructed and commissioned. Liquid disposal activities recommenced on June 9, 2023.
    - Completed power supply installation at Wellfields automatic gate.

    - Old wellfield decommissioning and rehabilitation.
- Water Treatment Plant & Gypsum Repository
    - New RO Plant consisting of 6 x prefabricated shipping containers complete.
    - New sump pumps installed in water treatment plant and at groundwater treatment pond.
    - Redundant water treatment pipework and equipment was removed and transferred to the low level waste storage area.
    - The water treatment plant mixer cells and clarifier concrete bund extension was completed, along with other general civil works.
    - Lighting review and preparation to procure components to finalise repairs and additional works as per operational requirements.
    - Control philosophy for water treatment finalised and documented. Automated operation of carbonate, flocculant make-up systems.
    - Commissioning of the Water Treatment Plant and RO Plant.
    - Water treatment plant has been optimised and is currently operational.
    - Gypsum repository is complete, commissioned, and operational.
- Reagents
    - All reagent tanks integrity tested.
    - Sulfuric acid first fill complete in Oct 23 and line ready for commissioning.
    - Sodium Carbonate first filled Nov 23 and line ready for commissioning.
    - Ferric line ready for commissioning.
    - Caustic line ready for commissioning.
    - Hydrogen peroxide piping complete and pumps installed.
    - Installation of new salt tank agitator structure is completed & grouted.
    - New installation and replacement of sump pumps reagents areas.
- Process Plant
    - Decommissioning works commenced – electrical isolation of the areas, solvent extraction mixer settlers, pulsed columns and pipework removed to low level waste temporary storage area.
    - Recommissioning of safety shower system and installation of cooling system
    - Process ponds emptied and relined (BLS, PLS, process water pond).
    - Installation of new process HDPE piping
    - New concrete for IX columns
    - PC1 steelworks and modifications
    - Recommissioning of plant air
    - Installation of a transfer vessel, resin screens and one set of ion exchange columns (loading and elution).
    - IX sumps completed.
    - Hydrocarbon management of process waste pond and stormwater pond.
    - Control room systems operational. Integration of old / new control system.
- Precipitation and Thickening
    - Pumps tested and refurbished.
    - Tanks cleaned out.
    - Installation of miscellaneous cables and instruments
    - Precipitation tanks agitator inspections and gearbox repairs

- Drying and Packing
  - CCTV cameras installed and fencing upgrades.
  - Reinstatement of sumps.
  - Density gauge wipe tests complete.
  - Excavation and civil works complete for in the Drying & Packing extension building (centrifuge building), extension building structurally complete, equipment installations underway, cladding commenced.
  - Baghouse maintenance, filter change out, testing and commissioning.
  - Crane testing complete.
  - Decommissioning of all redundant plant and equipment, including draining oil from redundant dryer into drums containing vermiculite.
  - Washdown of all equipment and plant; residual water and solids reporting to thickener via reinstated sumps.
  - Low level waste storage and management as per Radiation Management Plan.
  - Air conditioning systems serviced.
  - Supplied air system serviced and parts changed out as required.

## 2.2 Proposed Mining Activities for Next Reporting Period

Boss Energy commenced stage 2 commissioning in quarter 1, with uranium production planned for quarter 2 2024. The first three wellfields that will be mined during the next reporting period are shown in Figure 2-1, and include Wellfields B1, B2 and B3.

Boss Energy propose to generate up to 160 tonnes of Uranium Oxide Concentrate in the next reporting period (Table 2-1).

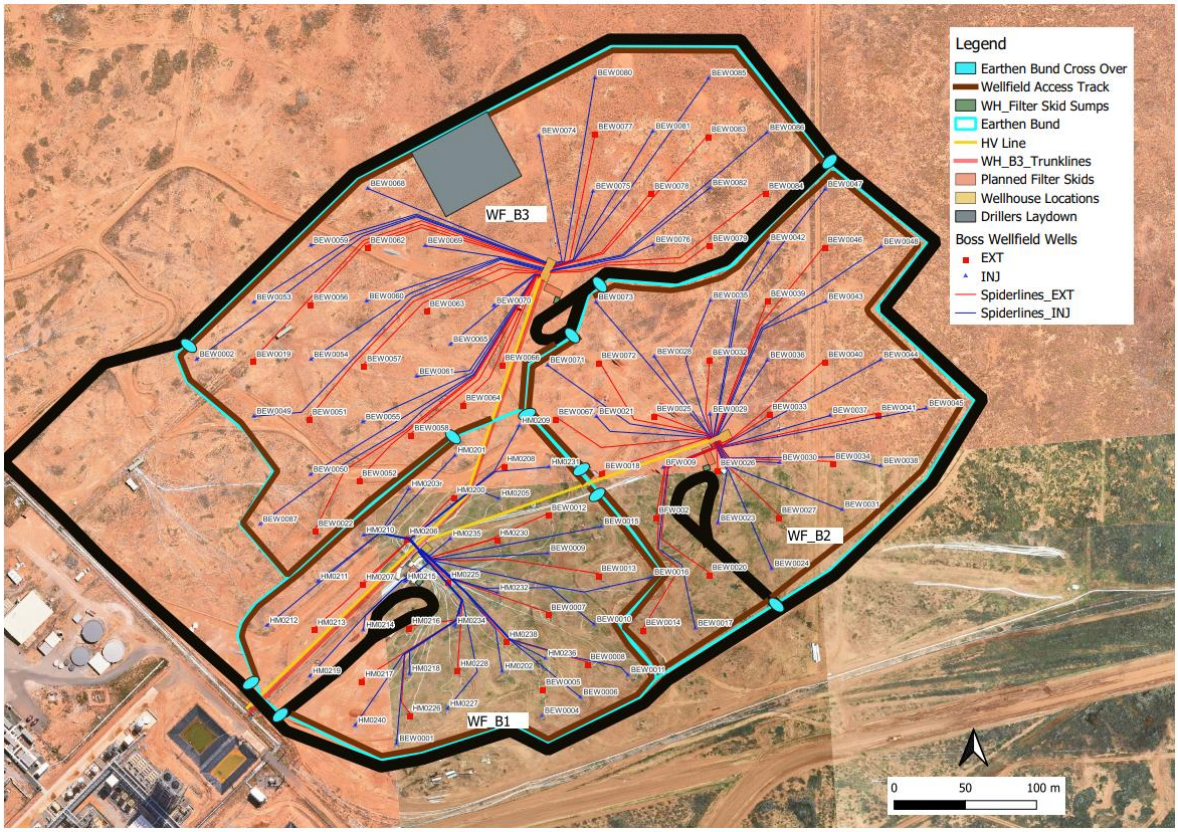



*Figure 2-1 Layout of new wellfields B1, B2 and B3 to be utilised during mining in the next reporting period.*

## 2.3 Exploration

### 2.3.1 ML6109

Exploration activities proposed during the next reporting period within ML6109, are anticipated to consist solely of the delineation of new wellfield areas (see Appendix D, page 19).

A detailed exploration compliance report is provided in Appendix D.

## 2.4 Ore Reserves and Mineral Resources

Resources have been classified under the Joint Ore Reserves Committee (JORC) Code. The Mineral Resource Estimate for the Honeymoon, Brooks Dam and East Kalkaroo areas is 24Mt, at an average grade of 660ppm $U_3O_8$ for a total contained uranium oxide of 36Mlbs $U_3O_8$ using a cut-off grade of 250 ppm $U_3O_8$.

| Resource Classification | Tonnage (Mt) | Average Grade (ppm $U_3O_8$)) | Contained Metal (kt $U_3O_8$) | Contained Metal (Mlb $U_3O_8$) |
|---|---|---|---|---|
| **Measured** | 3.1 | 1,100 | 3.4 | 7.6 |
| **Indicated** | 14 | 610 | 8.7 | 19 |
| **Inferred** | 7 | 590 | 4.1 | 9.1 |
| **Total** | 24 | 660 | 16 | 36 |

*Table 2-2 Summary of JORC Resource*

# 3 Compliance

The following compliance assessment was evaluated against the tenement conditions (ML6109) and the current PEPR (v14). Note that there were no changes to PEPR v13, Section 6 (environmental outcomes/objectives and leading indicator criteria), hence only PEPR v14 is referenced in the following sections, 3.1 to 3.10.

## 3.1 Air Quality

### 3.1.1 Summary of Compliance with PEPR Outcomes and Lease Conditions

*Table 3-1 Outcomes / Lease Conditions, outcome achievement and measurement criteria for air quality – PEPR v14*

| Outcome or Lease Condition | Outcome Achievement | Measurement | Compliant or Non-compliant |
|---|---|---|---|
| **PEPR Outcome No. 1** No adverse impact to the public and the environment from radon release or the dispersal of radionuclide rich particulates.<br><br>**Lease Condition ML 6109:** Second Schedule 1B, 1D, 1G, 1I | Annual radiation doses for non-designated Honeymoon workers working outside Supervised or Controlled areas is below 1 mSv, demonstrating the dose limit for members of the public (1 mSv) specified by the Radiation Protection and Control Act (2021), has been achieved. | Airborne particulates will be measured as long-lived alpha activity using area low flow sampling pumps. Gamma dose will be measured utilising personal Optically Stimulated Luminance (OSL) monitors. Radon decay products (RDP) will be monitored using area Environmental Radon Decay Product Monitors (ERDM). | Compliant |

### 3.1.2 Evidence of Compliance

Annual radiation doses to members of the public are inferred from the results of occupational monitoring of workers at the Honeymoon Mine, as the closest residents are situated 10 km away from the mine.

For the annual dose assessments of Honeymoon Mine workers in 2023, workers were divided into workgroup categories. For the member of public dose assessment, the workgroup category applied was ‘Administration and Camp’ workers. These workers work outside of the Supervised and/or Controlled areas; therefore, this dose assessment is a conservative representation of exposure to a member of the public.

The annual radiation dose to ‘Administration and Camp’ workers during 2023 were calculated using the results of quarterly airborne radionuclide monitoring (long lived alpha concentrations and radon decay product concentrations), and personal monitoring of gamma dose rates.

The effective dose for ‘Administration and Camp’ workers for a full work year (using a standard value of 2000 work hours) was calculated at 0.21 mSv (shown in Figure 3-1), and less than a quarter of the allowable dose for members of the public (1mSv). This dose is comparable to the average total effective dose for all workgroups, as reported in 2022 (0.23 mSv). Note that workgroups were not separated for dose calculations in 2022, hence a direct comparison of workgroups for 2022 and 2023, could not be completed. The average dose for all workgroups in 2023 was 0.34 mSv, which is also low and is less than 2% of the maximum dose rate specified in the Radiation Protection and Control Act (2021) for Radiation Workers

(20mSv). In addition, these are conservative assessments as background levels were not considered in the dose calculations.

Given that 'Administration and Camp' worker occupational doses were below the limit for members of the public (1 mSv) as specified by the Radiation Protection and Control Act (2021), this demonstrates that the annual dose for members of the public, outside the mine extent, are compliant and also below 1mSv/yr.

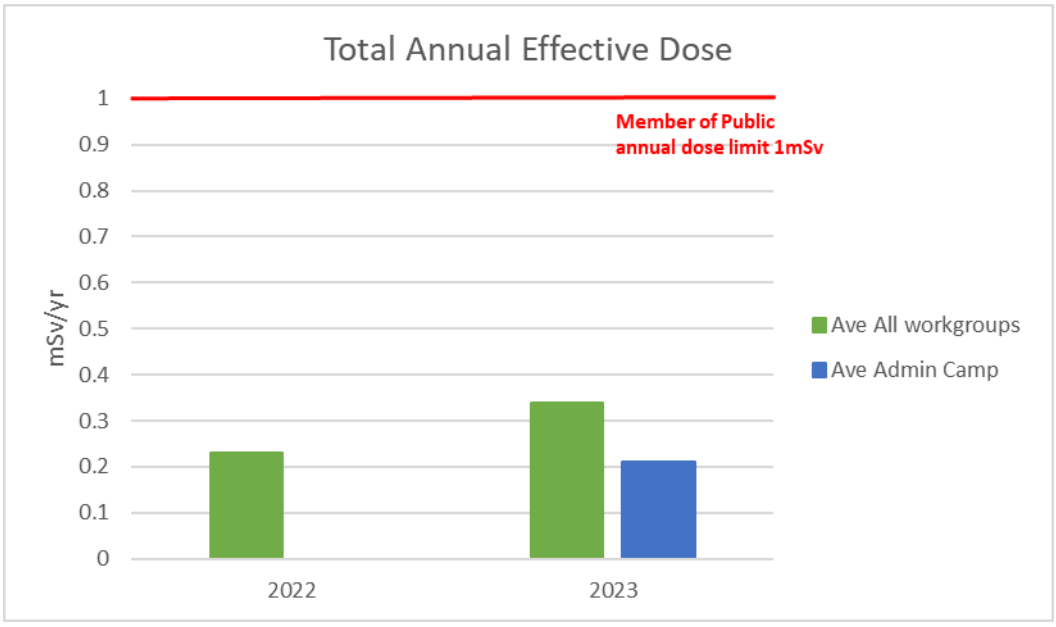



*Figure 3-1 Average annual effective radiation dose for Honeymoon mine workers (combined-all workgroups and Admin/Camp workers) 2023.*

## 3.2 Soil

### 3.2.1 Summary of Compliance with PEPR Outcomes and Lease Conditions

*Table 3-2 Outcomes / Lease Conditions, outcome achievement and measurement criteria for soil – PEPR v14.*

| Outcome or Lease Condition | Outcome Achievement | Measurement | Compliant or Non-compliant |
|---|---|---|---|
| **PEPR Outcome No. 1:** Soil is suitable for return to pastoral use.<br><br>**Lease Condition ML 6109:** Second Schedule 1B, 1D, 1G, 1I | a) Audit of onsite incident reports demonstrates all chemical spills have been managed in compliance with the Honeymoon Spill Procedure (SHER-GEN-000-PRO-038) and remediated within 72 hours, or a longer time agreed by the Director of Mining Regulation. | Spill reports entered into Incident Management System include:<br>• GPS coordinates of the spill location and extent recorded.<br>• Depth of spill penetration recorded.<br>• Nature of the spill (composition of the spilt fluid) recorded.<br>• Remediation actions undertaken and in compliance with the Honeymoon Spill Procedure (SHER-GEN-000-PRO-038). | Compliant |

| Outcome or Lease Condition | Outcome Achievement | Measurement | Compliant or Non-compliant |
|---|---|---|---|
| | b) Audit of onsite incident reports demonstrates all radiological solution spills have been managed in compliance with the Honeymoon Spill Procedure (SHER-HMN-000-PR-001) and the Radiation Management Plan. | Spill reports entered into Incident Management System include:<br>• GPS coordinates of the spill location and extent recorded.<br>• Depth of spill penetration recorded.<br>• Nature of the spill (composition of the spilt fluid) recorded.<br>• Gamma survey conducted (radiological spills).<br>Remediation actions undertaken and in compliance with Honeymoon Spill Procedure (SHER-HMN-000-PR-001) and the Radiation Management Plan. | Compliant |
| | c) All soil stockpiles recorded in the soil stockpile register are within the 3-meter height limit and have not been removed unless for recorded and authorised works. | Review of the soil stockpile register to assess the recorded height of each stockpile.<br><br>Physical verification of recorded soil stockpiles in the management database on the ground to verify no unauthorised removal has occurred. | Compliant |

*Table 3-3 Environmental outcomes, measurement criteria and indicator criteria for soil – PEPR v14.*

### 3.2.2 Evidence of Compliance

**Outcome No. 1a/b / Lease Condition, Second Schedule 1B, 1D, 1G, 1I**

33 spills to ground were recorded during the reporting period. All spills occurred inside the ML and have been recorded on the internal incident register, GPS location have been logged and mapped, volume and depth of spill recorded, nature of spill recorded and remediation actions completed.

All spills were managed in compliance with the site procedures and the RMP & RWMP v7.

There was one regulatory reportable spill, as per reporting requirements of the Bachman reporting criteria (SA) and the Radiation Protection & Control Act 2021;

- Jan 8, 2024, gypsum slurry spill within disturbed and undisturbed environment. All remediation and corrective action items have been completed.

In addition, there were two spills which were reported to DEM/EPA as the spill could not be remediated within 72 hours, as specifications in the PEPR.

- July 28, 2023 – Pipe rupture during decommissioning, causing residual SX fluids (hydrocarbon and radiation contaminated fluid) to ground.
- May 26, 2023 – Release to ground of soda ash with minor amounts of sodium hydroxide via corroded underground sump pump pipework.

Routine environmental inspections were undertaken during the reporting period, to identify any unreported spill events; nil unreported spills were identified. An audit of all onsite incident reports was undertaken in March 2024. This audit identified that all spills have reported, and action items completed, in line with regulatory commitments.

**Outcome No. 1c**

A review of all soil stockpiles was completed in December 2023 (Appendix C – Table G.1). This review included establishing locations of historic soil stockpiles and new stockpiles which were generated within the reporting year. All stockpiles were then surveyed to calculate heights and volumes. Location of stockpiles were also mapped, using aerial drone imagery, refer to Figure 3-2.

An additional survey was completed in February 2024, this included:

- Field assessment and photo points to assess stockpile stability and erosion.
- Field assessment to confirm that no unauthorised removal from soil stockpiles occurred during the reporting period (Appendix C – Table G.2). This was then cross-checked with authorised removal activities. Note that all authorised removal activities are recorded in the Environmental database.
- Survey assessment to ensure that stockpiles remained within 3-meter height limit (Appendix C – Table G.2).

Results from both assessments continue to demonstrate that unauthorised removal is not occurring and that all stockpiles are within 3 metre height limit, therefore full compliance with this outcome can be demonstrated (Appendix C – Table G.2).

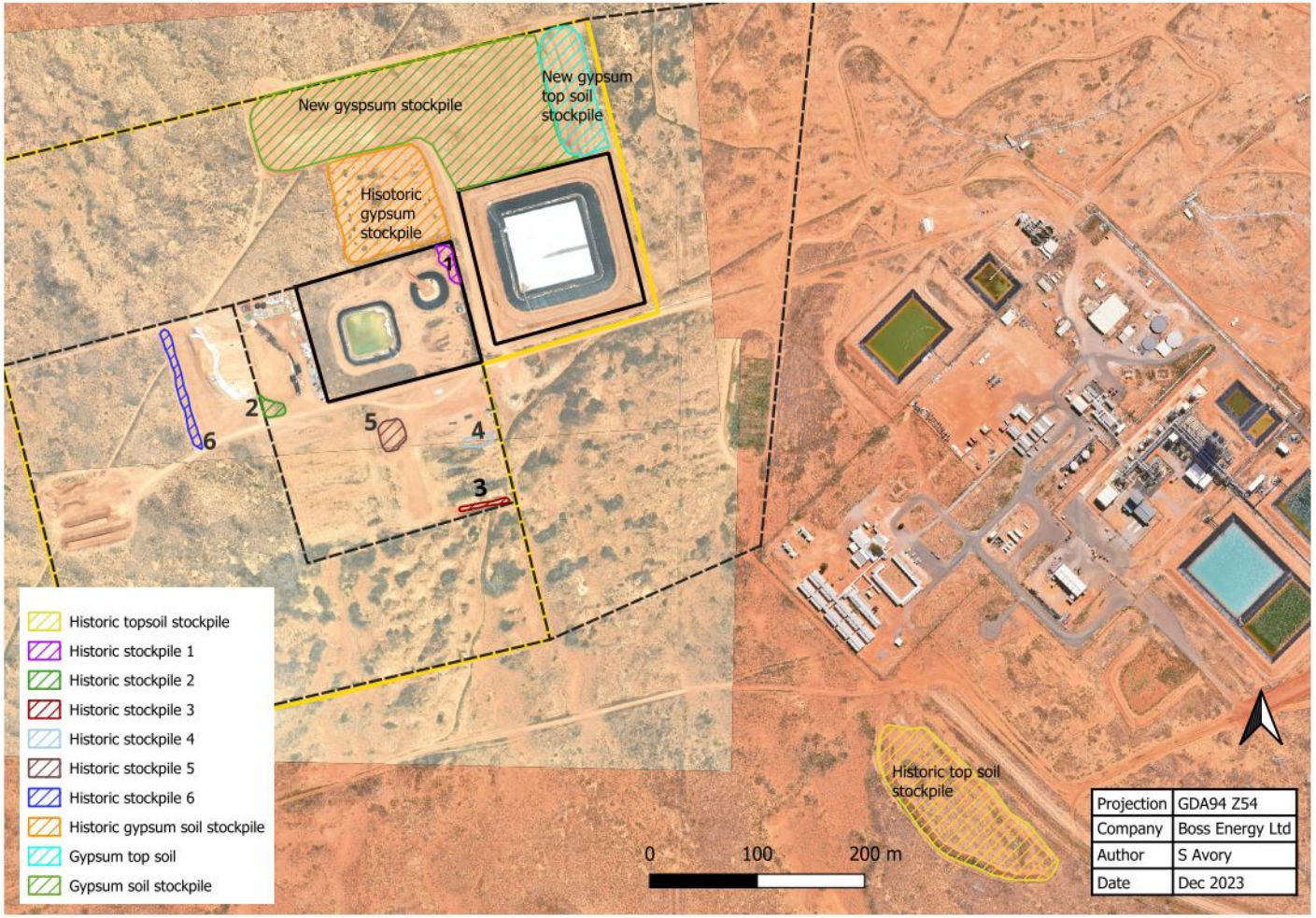



*Figure 3-2 Soil Stockpile locations Feb 24.*

## 3.3 Surface Water

### 3.3.1 Summary of Compliance with Lease Conditions

| Lease Condition ML 6109 | Outcome Measurement Criteria | Compliant or Noncompliant? |
|---|---|---|
| Second Schedule: 1D<br>The Lessee must ensure no contamination/pollution occurs to natural water drainage systems due to waste disposal and hazardous substances. | N/A | Compliant |
| Second Schedule: 1G<br>The Lessee must ensure no contaminated water leaves the Lease area. | N/A | Compliant |
| Second Schedule:1H<br>The Lessee must ensure no water runoff from the Lease causes flooding of adjacent areas. | N/A | Compliant |

*Table 3-4 Environmental outcomes, measurement criteria and indicator criteria for surface water – Lease Conditions*

### 3.3.2 Evidence of Compliance

Earthen bunds are present around the perimeter of all operational areas to ensure runoff from the site is collected internally and prevented from draining/running off site.

In February, an earthen bunding inspection was completed and confirmed at the following locations: low level waste storage facility, general waste cells, operational gypsum repository, process plant, liquid disposal wells and wellfields.

The closest creeks to the mine are Oonarta Creek and Mingary Creek, which lie 7 km west and 11 km east of the mine site, respectively. Both creeks are ephemeral. As a result of the arid climate in this area, the creeks are dry most of the year, only filling after significant rainfall.

Within the reporting period, the mine's operations were compliant with the lease requirements of the Second Schedule: 1D, 1G and1H for ML 6109 as no contamination or pollution events have occurred at, near to or affected the creeks. In addition, compliance with the Second Schedule: 1G & 1H is demonstrated as no contaminated surface waters has run off from the mining lease area, into adjacent areas.

## 3.4 Groundwater

### 3.4.1 Summary of Compliance with PEPR Outcomes and Lease Conditions

| Outcome or Lease Condition | Outcome Measurement Criteria | Measurement | Compliant or Noncompliant? |
|---|---|---|---|
| **PEPR Outcome No. 1:** No compromise to the environmental values of the Eyre Formation aquifer outside the mining lease. | a) Groundwater quality at any boundary compliance monitoring well does not exceed two or more excursion control limits:<br>• pH < 5.6<br>• SO4: >2.6g/L | Groundwater quality parameters:<br>• pH<br>• Conductivity<br>• Sulphate<br>• Uranium | Compliant |

| Outcome or Lease Condition | Outcome Measurement Criteria | Measurement | Compliant or Noncompliant? |
|---|---|---|---|
| **Lease Condition ML 6109:** Second Schedule:1C, 1D, 2, 8 | • U: > 1.6 mg/L | Groundwater samples will be collected using a low-flow groundwater sampling system and analysed in-house (with QA/QC samples sent to a NATA-accredited laboratory) and/or at a NATA-accredited laboratory. | |
| | b) Regional groundwater drawdown is kept within 1.5 m of baseline ranges. | Static water levels (SWL) measured using a water level meter or pressure probe | Compliant |
| | c) Wellfield natural attenuation field monitoring undertaken, and model verification progress reported. | Natural attenuation groundwater quality parameters:<br>• pH<br>• Conductivity<br>• Sulphate<br>• Uranium<br>• Total recoverable hydrocarbons<br><br>Groundwater samples will be collected using a low-flow groundwater sampling system and analysed in-house (with QA/QC samples sent to a NATA-accredited laboratory) and/or at a NATA-accredited laboratory. | Compliant |
| | d) Liquid disposal fluid and groundwater monitoring undertaken, and natural attenuation model verification progress reported. | Liquid disposal volumes (m3) and average daily flow rates (m3/s). Disposal volumes will be measured from a flow meter on the liquid disposal pipeline. | Compliant |
| | | Liquid disposal fluid quality:<br>• pH<br>• Conductivity<br>• Sulphate<br>• Uranium<br>• Total recoverable hydrocarbons<br>Disposal fluid quality will be measured by sampling the pond at a sample point on the liquid disposal pond or a grab sample directly from the pond. | Compliant |

| Outcome or Lease Condition | Outcome Measurement Criteria | Measurement | Compliant or Noncompliant? |
|---|---|---|---|
| | | Groundwater quality parameters:<br>• pH<br>• Conductivity<br>• Sulphate<br>• Uranium<br>• Total recoverable hydrocarbons25<br>Groundwater samples will be collected using a low-flow groundwater sampling system and analysed in-house (with QA/QC samples sent to a NATA-accredited laboratory) and/or at a NATA-accredited laboratory. | Compliant |

*Table 3-5 Environmental outcomes, measurement criteria and compliance status for groundwater – PEPR v14*

### 3.4.2 Evidence of Compliance

To ensure there is no compromise to the environmental values of the Upper and Basal Members of the Eyre Formation aquifer outside the mining lease, groundwater quality is monitored in line with the monitoring program set out in the PEPR (v14) Section 6.5.

Care and maintenance monitoring continued in all monitoring wells and baseline groundwater monitoring for the wellfield restart commenced in April 2023.

From initial sampling rounds in quarter two and three, the presence of historic mining lixiviant was identified in several basal monitor wells (OBCM8, OBCM10 OBCM11, OBCM12) along the northern section of the perimeter monitor wells. As a result, planning commenced to install a new boundary compliance monitor well network. This network (OBCM20-29) was installed in Dec-Feb 2024 and replaces the historic contacted wells. This new network is the compliance basal member leading indicator monitor wells and encompasses an expanded mining area to ensure that operational monitoring of current and new wellfields is in line with PEPR specifications. Monitoring of these new compliance wells commended in February 2024.

**Outcome No. 1a**

Groundwater quality at all current boundary compliance monitoring wells (Basal and Upper members of the Eyre Formation – Figure 3-3) were within the excursion control limits for pH, Sulphate and Uranium within the reporting period. Refer to Appendix C – Figures A.1 to A.4. and Figures B.1 to B.4. Groundwater samples were collected using a low-flow groundwater sampling system and analysed by NATA accredited laboratory.

**Outcome No. 1b**

Static water levels were measured quarterly, using a water level meter or pressure probe. Regional groundwater drawdown was kept within 1.5 m of baseline ranges, during the reporting period. Refer to Appendix C – Figure A.6.

**Outcome No. 1c**

Historic Natural Attenuation (NA) wells continued to be monitored during the reporting period (Figure 3-3). It is acknowledged that due to current mining restart activities and location of the current wellfields, NA monitoring is no longer officially required. A future monitoring network

is to be determined following closure of a suitably located wellfield and agreement with regulatory agencies.

**Outcome No. 1d**

The locations of liquid disposal monitoring wells are shown in Figure 3-4. Liquid disposal, via the liquid disposal wells commenced June 14, 2023. Liquid disposal volumes are recorded daily using individual well flow meters. Average daily injection flow rates and totalised quarterly disposal volumes are also recorded. Refer to Appendix C, Table E.2.

Liquid disposal water quality data is presented in Appendix C, Figure E.1 and Figure E.2 and Table E.1. Liquid disposal fluid quality is monitored quarterly for pH, Conductivity, Sulphate, Uranium and Total Recoverable Hydrocarbons (TRH). Concentrations for Uranium and Radium is comparable to historic concentrations (Appendix C, Figure E.1). Increased TRH concentration was recorded in the Liquid Disposal Pond (LDP) in August 2023 (Appendix C, Table E.2) and reported to DEM/EPA thereafter. This increase in hydrocarbon concentration occurred as result of the reportable incident, as addressed in section 3.2.2 (July 28, 2023 – Pipe rupture causing residual SX fluids spill). The risk management activity associated with this spill was the transfer of fluid in the process waste pond to the LDP, hence increasing the hydrocarbon concentration of the LDP fluid. Liquid disposal activities were shut down and restarted only after approval was received from DEM (September 8, 2023). The basis of the approval was that the hydrocarbon concentration of the LDP fluid was comparable to that recorded during historic operations and does not contain any poly aromatic hydrocarbons. It was also noted that the resumption of mining in wellfields B, C and D may mobilise hydrocarbons present in the mining zone and this may report to the LDP. In addition, Boss also committed to remediate the remaining fluid in the process waste pond, prior to transfer to the LDP. This work was executed and the LDP TRH concentrations for quarter one, 2024, indicate that this hydrocarbon remediation has been successful (average TRH for Q1 = 373ug/L).

The results from the quarterly monitoring of the Upper and Basal liquid disposal monitoring wells are provided in Appendix C – Figures C.1 to C.6). These wells are being closely monitored to assess the liquid disposal plume. In June 2023, uranium, sulphate, conductivity and TRH concentrations increased at wells WBLDCM2 and EBLDCM1. These water quality results indicate that the liquid disposal plume is acting as predicted in the solute transport model, as provided in the PEPR, Appendix F - Honeymoon restart raw water pumping and liquid waste injection assessment. A detailed annual report on liquid disposal plume and natural attenuation model verification will be provided in quarter 2, 2024 as additional data is required to complete the assessment.

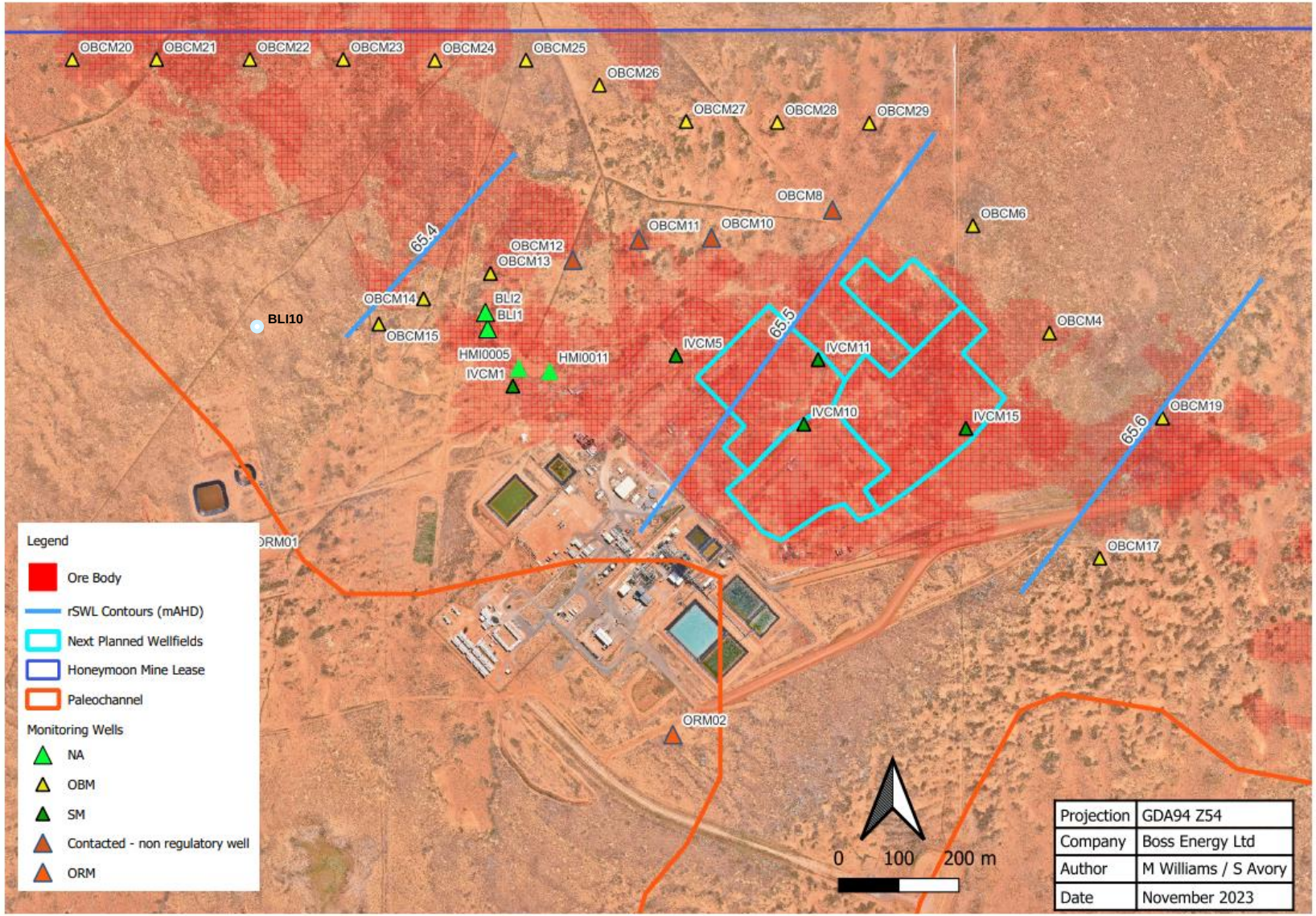



*Figure 3-3 Groundwater monitoring wells at and close to the ISR wellfield.*

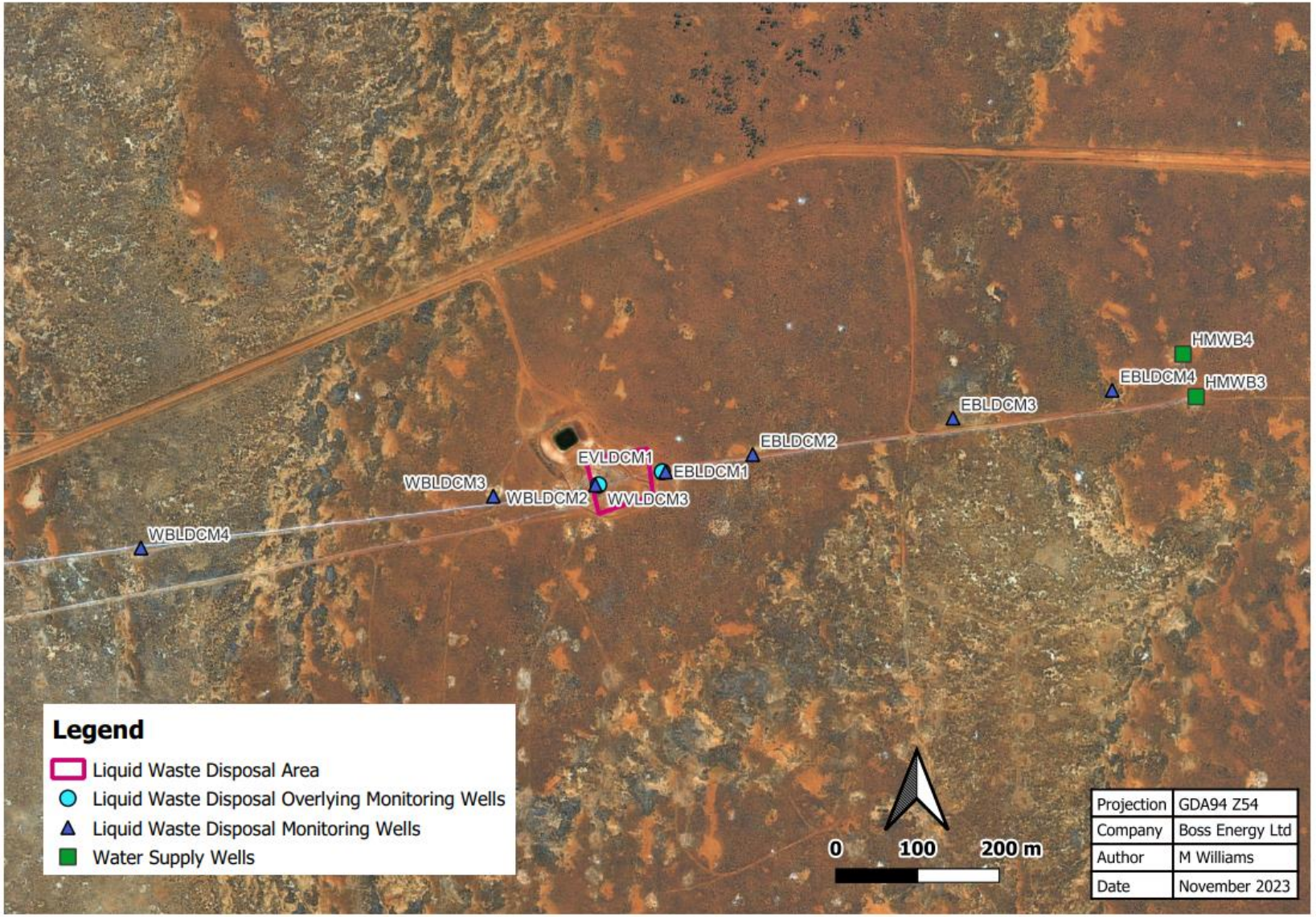



*Figure 3-4 Liquid waste disposal monitoring wells.*

## 3.5 Mine Rehabilitation

### 3.5.1 Summary of Compliance with Lease Conditions

| Lease Condition ML 6109 | Outcome Measurement Criteria | Compliant or Non-compliant? |
|---|---|---|
| Second Schedule: 4C | N/A | Compliant |
| Second Schedule: IJ | N/A | Compliant |

*Table 3-6 Environmental outcomes, measurement criteria and compliance status for mine rehabilitation – Lease Conditions*

### 3.5.2 Evidence of Compliance

**Outcome No. 1**

No EFA surveys were required during the reporting period and no areas were rehabilitated during the reporting year due to being required for current and future operations (Appendix C – Table H.2). Total historic areas rehabilitated are provided in Appendix C – Table H.1.

Total clearance area for the reporting period was 13.16 ha, provided in section 3.6 and Appendix C – Table H.2. The forecast rehabilitation is 3 ha for the next reporting period (Appendix C, Table H.3).

Progressive rehabilitation techniques include;

- Annual assessment of inactive operational / mining areas to identify areas which are no longer required for operational activities. If deemed no longer required a rehabilitation plan developed and completed.
- Drilling disturbance areas are rehabilitated as soon as possible, with light ripping of the ground surface to encourage natural revegetation.
- Future monitoring of rehabilitated areas to demonstrate successful revegetation and ecosystem sustainability.

Proposed clearance for the next reporting year is 23.6 ha. Disturbance to vegetation, during these clearance activities will be minimised where possible. For example for new wellfields, the ground will not be graded to remove vegetation rather infrastructure will be placed within or over existing vegetation.

## 3.6 Flora

### 3.6.1 Summary of Compliance with PEPR Outcomes and Lease Conditions

| Outcome or Lease Condition | Outcome Measurement Criteria | Measurement | Compliant or Non-compliant? |
|---|---|---|---|
| **PEPR Outcome 1:** No permanent loss of native species abundance or species richness on or off the mining tenements due to mining operations | a) Audit of the mining tenements demonstrates native vegetation clearance is within extent provided in the Native Vegetation Management Plan (NVMP) (Appendix E). | Baseline clearance extents, recorded as an overlay to a site 2013 aerial image, will be used to perform a visual site assessment to identify any new disturbances/ clearances. | Compliant |

| Outcome or Lease Condition | Outcome Measurement Criteria | Measurement | Compliant or Non-compliant? |
|---|---|---|---|
| unless prior approval under the relevant legislation is obtained.<br><br>**Lease Condition ML 6109:**<br>Second Schedule:1B | | Results will be recorded on a new overlay to the 2013 aerial photograph.<br><br>Approved Landscape and Vegetation Clearance Permit records and completed SEB clearance tracking will be used to verify if the identified disturbances have been approved. | |
| | b) Audit of the mining tenements demonstrates all native vegetation clearance has a significant environmental benefit (SEB) offset in place prior to clearance occurring. | Reconciliation of native vegetation clearance undertaken against SEB offset credits held. | Compliant |
| **PEPR Outcome 2:**<br>No introduction of new noxious weed species, plant pathogens and/or increase in density or distribution of existing weed species and plant pathogens.<br><br>**Lease Condition ML 6109:**<br>Second Schedule:1E | a) Mine log book records annual inspections which demonstrate no new declared weed species, plant pathogens and/or increase in density of existing declared weed species and plant pathogens.<br>Mine log book also records active weed control management undertaken on declared weed species. | Declared weed surveys will be completed by a suitably qualified environmental professional, assessing a 50 x 50 m quadrant at each defined impact and control site.<br><br>Surveys will assess declared weed species richness, abundance, and distribution. | Compliant |
| **Lease Condition ML 6109:**<br>Second Schedule:9<br><br>Trunklines to be laid on surface rather than be buried, avoiding unnecessary vegetation clearance | | | Compliant |

*Table 3-7 Environmental outcomes, measurement criteria and compliance status for flora – PEPR v14*

### 3.6.2 Evidence of Compliance

**Outcome No. 1a**

In accordance with the PEPR, any native vegetation clearance proposed for the mining lease and miscellaneous purposes licenses requires a landscape & native vegetation clearance permit to be completed. This permitting system provides a way to control (minimise) and record native vegetation clearance ensuring SEB requirements are met and to ensure that all clearances are within the future native vegetation clearance extent as specified in the Native Vegetation Management Plan, Figure 6.1.

As a result of planning for the new Basal Member leading indicator monitor well network, it was identified that these wells would be outside of the extent provided in the Native Vegetation Management Plan. The PEPR was therefore reviewed and updated to include the

revised Native Vegetation Management Plan, whereby the future native vegetation clearance extent was inclusive of the new compliance monitor well network.

During the reporting period, eleven landscape & native vegetation clearance permits were completed within the ML (Figure 3-5– refer to the legend which specifies individual permits). The clearance totals, by domain, for the current reporting year, are shown in Appendix C – H.2. Cumulative total clearance areas, and rehabilitated areas are also recorded, as displayed in Figure 3-5 and Appendix C – Table H.1.

As assessment was completed via aerial survey and on site assessment, to confirm that no unauthorised clearances occurred outside of these authorised clearance activities and / or outside of the within extent provided in the Native Vegetation Management Plan. The operation is therefore compliant with this outcome.

**Outcome No. 1b**

As per commitment in the Native Vegetation Management Plan, an additional 60 SEB offset credits were purchased prior to mine restart. The total clearances (ha) for reporting period have been deducted from the total SEB offset credits held (ha); 53 SEB offset credits remain after clearance activities were completed in the current reporting year. As assessment was then completed to determine if adequate offset credits are available for the upcoming year of proposed clearance activities (Appendix C – Table H. It has been determined that sufficient offset credits are held, with approximately 30 SEB offset credits remaining thereafter. The SEB credits held demonstrates all native vegetation clearance had a significant environmental benefit (SEB) offset in place prior to clearance occurring, during the reporting year and in addition there are sufficient credits available for the upcoming reporting year.

**Outcome No. 2a / Lease Condition, Second Schedule 1E**

The annual weed survey was undertaken between October 28 to November 2, 2023, at locations as specified in PEPR (Figure 3-6 and Appendix C – Table F.1).

This survey found no introduction of new noxious weed species or plant pathogens at control or impact sites (Appendix C – Table F.3).

The current monitoring sites differ from historic monitoring sites, hence a year-on-year comparison of density and distribution, could not be completed this reporting year. A more thorough assessment will be completed in the next reporting year.

The distribution comparison of declared weeds (normalised per site) for control sites was 62 and 218 for impact sites was (Appendix C – Table F.3). There was one declared weed (Athel pine) which was only sighted at one location (WF09 control site). All other declared weeds were sighted both on and off the ML (control and impact sites). There was one site which did not have any declared weeds (WF10) – this was also observed in the previous survey, 2021, where nil weeds were observed. This site is located in an area which is actively being managed for weeds by the landholder and in addition, sheep are being farmed on the land. Both activities resulted in nil ground cover (inc. nil declared weeds), with increased pest sightings (discussed in section 3.7). All weed survey results for 2023 are displayed in Appendix C – Figure F.2.

It is noted that densities were classified as low, medium and high categories. In future, discrete counts will be undertaken as this will be important when assessing density, over the years.

Records of declared weeds on the ML and active weed management has been recorded in the mine logbook. In addition, declared weed sightings are recorded as hazards in the incident reporting database, tracking location, action required and corrective action completion. Weed management has been a key focus as we move into operations; a weed management plan has been developed, safe work instructions competed and weed management equipment purchased.

**Lease Condition, Second Schedule 1B**

No unauthorised clearances outside of the authorised clearance activities have occurred. No fires, dust / contamination events or other damage occurred, resulting in loss of abundance or diversity of native vegetation on or off the ML. The operation is therefore compliant with this outcome.

**Lease Condition, Second Schedule: 9**

All trunklines have been installed above ground, to reduce unnecessary ground disturbance and vegetation clearance.

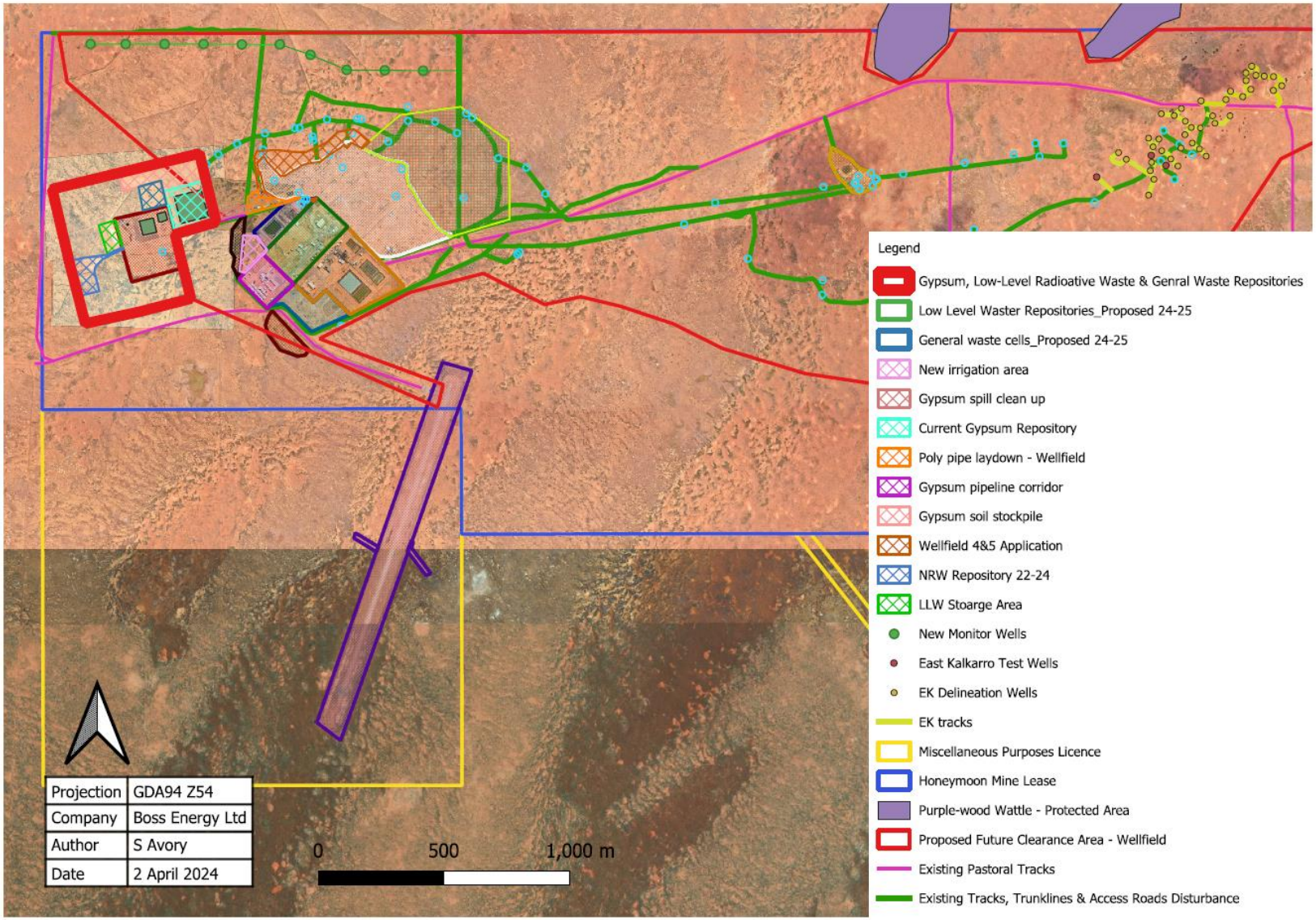



*Figure 3-5 Vegetation Clearance or Disturbance at Honeymoon Uranium Mine as of 7 Feb 2024, showing total extent and clearances completed in reporting year (legend).*

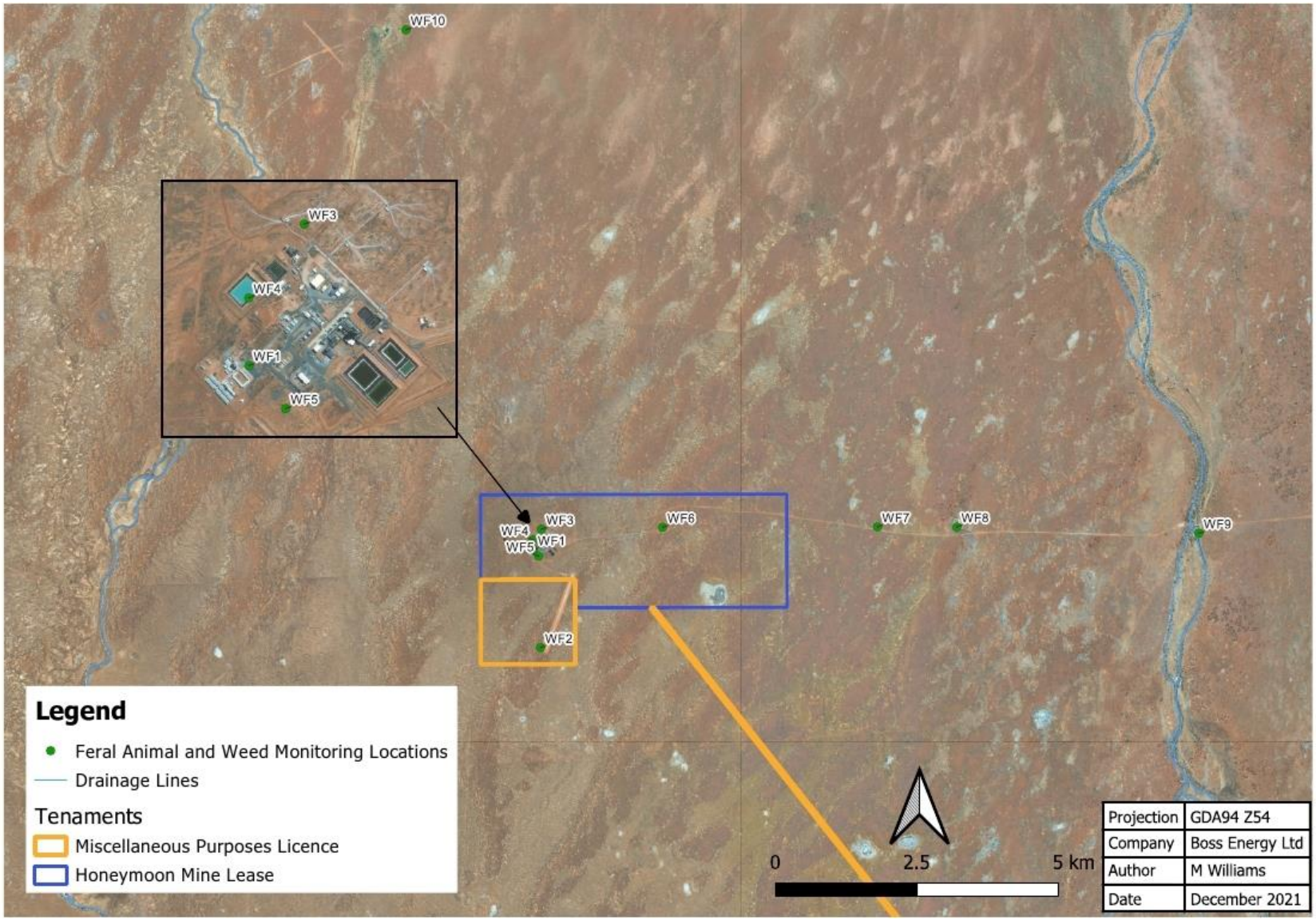



*Figure 3-6 Operational weed and pest monitoring locations*

## 3.7 Fauna

### 3.7.1 Summary of Compliance with PEPR Outcomes and Lease Conditions

| Outcome or Lease Condition | Outcome Measurement Criteria | Measurement | Compliant or Non-compliant? |
|---|---|---|---|
| **PEPR Outcome No. 1**<br>No native fauna injuries or deaths due to mining operations that could have been reasonably prevented. | a) Review of incident reports generated as a result of serious harm or death of native fauna on the mining tenements demonstrates that the incidents could not have been reasonably prevented and animal welfare was handled in accordance with the Animal Welfare Act 1985. | Audit of internal incident reports relating to native fauna injury or death, with an assessment of the root cause of the incident. | Compliant |
| **PEPR Outcome No. 2**<br>No introduction of new feral animal species or increase in abundance within the mining tenements, in comparison with adjoining pastoral areas.<br><br>**Lease Condition**<br>**ML 6109:**<br>Second Schedule:1E | a) No new feral animal species, or sustained increase in feral animal species numbers within the mining tenements, when compared with control sites. | Feral animal survey to identify new feral animal species or detect any increase abundance of feral animals in comparison with off lease control sites.<br>Survey methods:<br>• Feral animal abundance assessments.<br>• Infrared motion activated cameras.<br>• Opportunistic observations | Compliant |

*Table 3-8 Environmental outcomes, measurement criteria and compliance status for fauna – PEPR v14*

### 3.7.2 Evidence of Compliance

**Outcome No.1**

All fauna related incidents are reported and recorded in the incident management system. During the reporting year there were 16 fauna related incidents:

- 3 incidents resulting in the animal being rescued/removed and released outside of the work area.
- 6 fauna deaths due to accidental vehicle collision.
- 3 incidents whereby birds were found already deceased/ injured. There was one severely injured bird (injury unknown), which was euthanised in accordance with the Animal Welfare Act 1985. The cause of death of the other birds could not be determined.
- 1 bird found deceased in water treatment plant gypsum mixer cell.
- 3 birds which were assessed to be ill/deceased from contact with hydrocarbons inside the process waste pond. Attempts were made to prevent these incidents from occurring; the pond was cleaned out and a hydrocarbon management/removal plan was implemented as soon as possible. Fauna escape ropes were installed, and the

pond was regularly and routinely monitored to check for wildlife. 1 bird was found already deceased and 2 were rescued, washed and looked after, however unfortunately, later died.

All incidents were investigated to identify the root cause and implement corrective actions to reduce likelihood of reoccurrence.

Preventative hazard reporting is encouraged for this reason to prevent fauna harm on site. 33 fauna related hazards were reported during the reporting year. In addition, there were several successful snake relocations undertaken. All snake interactions were completed by trained and qualified snake handlers.

**Outcome No. 2 / Lease Condition, Second Schedule 1E**

An annual feral animal (pest) survey was undertaken in October to November 2023 as per locations shown Figure 3-6 and Appendix C – Table F.1. Results of pests per site are displayed in Appendix C – Table F.4 and Figure F.3. No new feral animal species were recorded within the ML. Goats and sheep were identified outside of the ML, at two control sites (WF08 and WF10). Total pests for control and impact areas are provided Appendix C – Table F.5. There was a total of 1 pest animal (normalised per site) identified at impact sites, compared to 7 pest animals (normalised per site) at the control sites. Therefore, it can be concluded that there is no sustained increase in abundance of feral animal species within the ML in comparison to adjoining land, outside of the ML (control sites).

Pest animals sightings are also reported and recorded opportunistically. A database is kept to record all pest sightings and pest management strategies undertaken. The pest management program at Honeymoon includes routine rodent and rabbit baiting and use of the Felixer cat grooming trap. Preventative strategies using fencing and progressive closure of non-radioactive (domestic) waste cells.

## 3.8 Indigenous Heritage

### 3.8.1 Summary of Compliance with Outcomes and/or Lease Conditions

| Outcome or Lease Condition | Outcome Measurement Criteria | Measurement | Compliant or Non-compliant? |
|---|---|---|---|
| **PEPR Outcome No. 1**<br>No disturbance to Aboriginal sites, objects or remains of significance without prior approval under the Aboriginal Heritage Act 1988.<br><br>**Lease Condition ML 6109:**<br>Second Schedule:1A | a) Production records, site incident records and the mine log book will demonstrate that upon discovery within the mining tenements that are possible aboriginal sites, objects or remains all work immediately ceases and work only recommences once authorisation is received as required under the Aboriginal Heritage Act 1988 | Daily production records and reports, internal incident reports and the mine log book will be inspected in the event any potential Aboriginal site, object or remain is discovered to assess for the immediate shut down of the related activities and formal regulatory notification. | Compliant |
| | b) No unauthorised disturbance identified in marked Aboriginal sites derived from mining related activities. | Each identified and marked Aboriginal site will be physically inspected to determine if any unauthorised | Compliant |

| | | | |
|---|---|---|---|
| | | ground disturbance has occurred. | |

*Table 3-9 Environmental outcomes, measurement criteria and compliance status for Indigenous heritage – PEPR v14.*

### 3.8.2 Evidence of Compliance

**Outcome No. 1&b / Lease Condition, Second Schedule 1A**

Visual assessments of marked Aboriginal sites were undertaken throughout the reporting year. These assessments were carried out to determine if any unauthorised ground disturbance had occurred since the last assessment.

During the reporting year a drilling program commenced in East Kalkaroo (EK), near known Aboriginal sites (Figure 3-7). In preparation for the drilling program, a heritage clearance with NAWNTAC was undertaken in April 2023. A new site (large stones and some cutting tools) was identified within this area (471,829mE, 6,488,686mN). To prevent disturbance to this site and the other known sites which were in the vicinity of the drilling program, these sites were fenced off to ensure they were not disturbed. The drilling program continues into the current reporting year and inspections of the sites will be ongoing.

These field assessments did not detect any disturbance within the marked Aboriginal sites and therefore compliance with this outcome can be demonstrated.

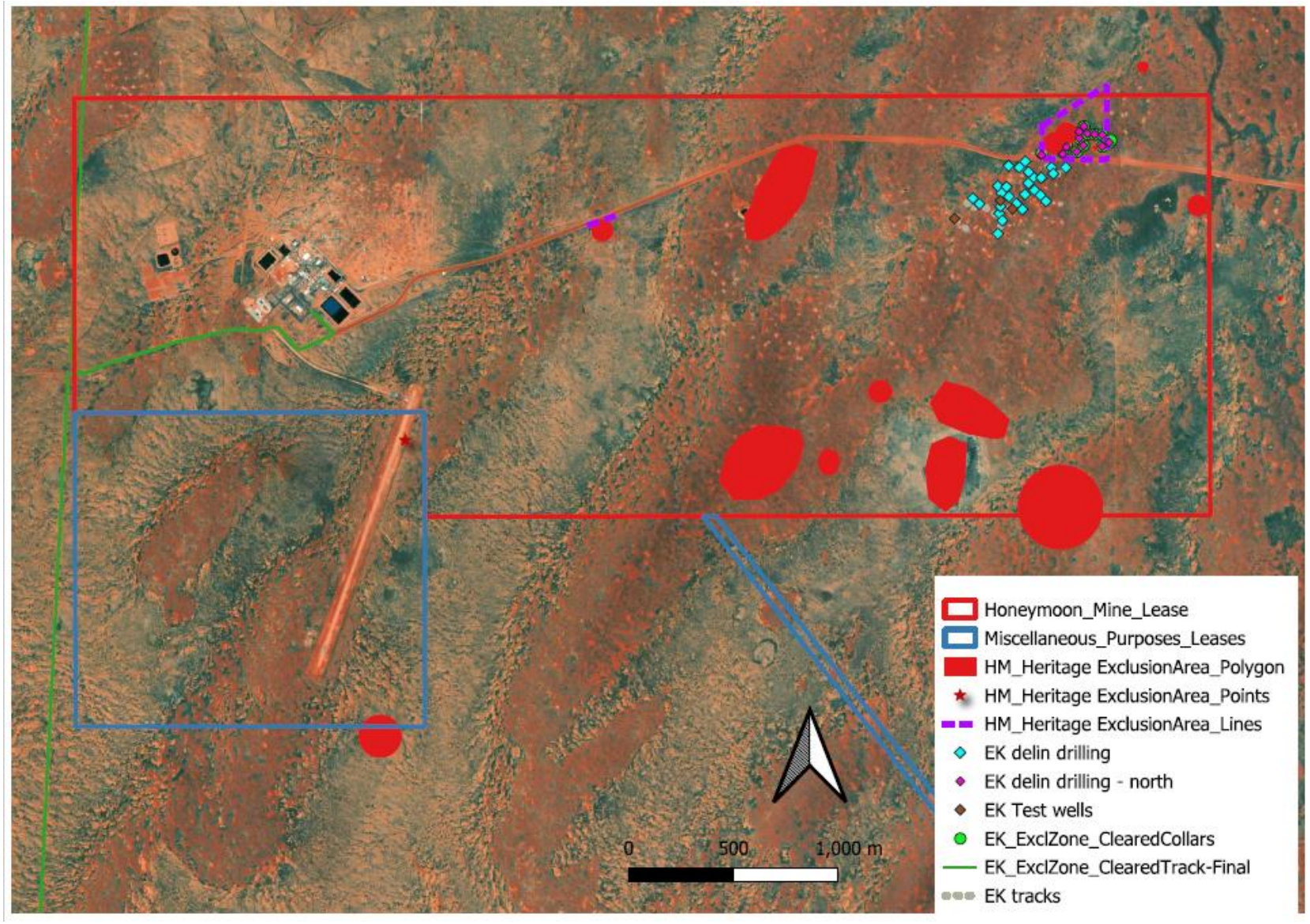



*Figure 3-7 Heritage exclusion areas within the ML & MPLs*

## 3.9 Waste

### 3.9.1 Summary of Compliance with Lease Conditions

| Outcome or Relevant Lease Condition | Outcome Measure Criteria | Compliant or Non-compliant? |
|---|---|---|
| **Lease Condition ML 6109:** Second Schedule:3 Ensure that all commercial and industrial waste is disposed of in accordance with relevant legislation. | | Compliant |

*Table 3-10 Environmental outcomes, measurement criteria and indicator criteria for waste – Lease Conditions*

### 3.9.2 Evidence of Compliance

**Lease Condition, Second Schedule 3**

All non-radioactive waste is collected and disposed of on site within EPA licensed waste facilities. Non-radioactive waste volumes are recorded and reported to EPA in annual reports as per EPA Licence 19643 conditions. SA EPA Listed wastes (as per Environment Protection Act 1993) are segregated on site and are managed as per EPA requirements, including tracking and transport to EPA licenced receiving facilities.

All low level waste, which was generated during the reporting year, was collected and stored in accordance with the site Radiation Management Plan & Radioactive Waste Management Plan (RMP & RWMP) v7 and Decommissioning and Construction Management Plan (v4).

Low level waste disposal commenced March 28, 2024, and all disposal activities are completed in accordance with the site RMP & RWMP v7. Low level waste disposal volumes will be reported in the quarterly and annual radiation reports.

Inspections are routinely completed at both non-radioactive waste and low level waste facilities to ensure compliance with site procedures, legislation and EPA licence.

A review of incident reports and undertaking of site inspections, identified that that all waste was disposed of in accordance to relevant legislation.

## 3.10 Safety, Security and Protection of Third Party Property

### 3.10.1 Summary of Compliance with Outcomes and/or Lease Conditions

| Outcome or Lease Condition | Outcome Measurement Criteria | Measurement | Compliant or Non-compliant? |
|---|---|---|---|
| **PEPR Outcome No.1** No Deaths or injuries from the unauthorised entry of the public into project areas that could have been reasonably prevented.<br><br>**Lease Condition ML 6109:** Second Schedule: 1F | a) All public injuries and/or deaths resulting from unauthorised access to the tenement are recorded in the mine log book and internal incident reports and an investigation by a suitably qualified independent third-party is completed within one calendar month (or other time as agreed with Regulatory agencies). | Review of entries relating to incidents associated with members of the public within the mine log book.<br><br>Verification that an independent third-party incident report had been completed by a third party within one calendar month. | Compliant |

| Outcome or Lease Condition | Outcome Measurement Criteria | Measurement | Compliant or Non-compliant? |
|---|---|---|---|
| | The results of the investigation demonstrate the tenement holder could not have reasonably prevented the incident from occurring. | | |
| **PEPR Outcome No. 2**<br>No impacts to third party property derived from operational activities remain unresolved.<br><br>**Lease Condition ML 6109:**<br>Second Schedule:1A | a) All impacts to third party property, resulting from Boss Uranium's activities at the Honeymoon mine will be logged in the stakeholder consultation register, and any required compensation paid within 90 days.<br>Compliance will be assessed on an annual basis. | Review of entries relating to incidents associated with third party property members of the public within the mine log book and internal incident reporting system.<br><br>Records of any compensation payment paid to the affected party for third party property damage. | Compliant |

*Table 3-11 Environmental outcomes, measurement criteria and compliance status for safety, security and protection of third party property – PEPR v14.*

### 3.10.2 Evidence of Compliance

During the reporting period, routine site security inspections were undertaken at the Honeymoon mine. No attempts to gain entry, or evidence of unauthorised entry was identified during this period. There were no incidents reported relating to members of the public.

There were two incidents during the reporting period, relating to third party property damage;

- June 22, 2023: Contractors (engaged by Boss Energy) used Mulyungarie road upon their own discretion, after recent rain and communication of road closure, causing damage to the road.

  Resolution action completed: The road was repaired and graded by Boss and it was communicated and reiterated to all employees and contractors re requirements during road closure events.
- July 11, 2023: Accidental damage to landholder's cattle grid fence.

  Resolution action completed: As agreed with the landholder, the fence was repaired by Boss with 1 week of the incident.

These incidents were recorded in the mine log book, the internal stakeholder engagement register and internal incident reporting system. The investigations from these incidents demonstrate that the Boss could not have reasonably prevented the incidents from occurring. Boss is therefore compliant with this outcome.

# 4 Rectification of Non-Compliances

## 4.1 Non-Compliance for 2023-2024 Reporting Period

No new non-compliances were recorded during the 2023-2024 reporting year.

# 5 Management System and Regulatory Reviews

## 5.1 Safety, Health, Environment and Radiation Management System Audit

A management system review was completed by Boss team and a new system will be implemented in 2024. The new management system will be used to improve management systems by;

- Providing a single source for documental control, tracks the document reviews and sends out notifications of the updates.
- Providing a corrective actions database that reports both up and down in the organisational structure.
- Providing a single risk management approach to the business.
- Providing the ability to create and store all Safety, Health, Environment and Radiation Alerts and Bulletins.
- Providing the management of all incidents and injury management.
- Managing the emergency management including medical management with the ability to capture lessons learned.
- Managing all legal obligations and compliance requirements.
- Managing the learning management system and conducting training needs analysis.
- Managing health and hygiene monitoring.
- Managing day-to-day risk assessments (JSA and SWMS).
- Providing various reports for each department and management.

The following key documents have been generated and approved since the last reporting period (as of April 2, 2024).

- Decommissioning and Construction Management Plan, v4.
- Program for Environment Protection & Rehabilitation – ML 6109, MPL 15 & 92 v14
- Radiation Management Plan and Radioactive Waste Management Plan v7
- Physical Protection and Site Security Plan
- Transport Management Plan
- Emergency Management Plan
- Health and Safety Management Plan
- Incident Management & Reporting Procedure – Environment & Radiation
- Various other Procedures, Safe Work Instructions and Forms, stored in online file.

## 5.2 Changes to Regulatory Documentation

A revision to the Program for Environment Protection and Rehabilitation (PEPR), to incorporate changes to the Appendix E – Native Vegetation Management Plan (NVMP) – Figure 6.1 Future native vegetation clearance extent was prepared, and formally approved by the Department for Energy and Mining (DEM) 2023. This change to the NVMP was required due to the new monitor well network being outside of the proposed future clearance area polygon.

Other changes to regulatory documentation include:

- Radiation Management Plan & Radioactive Waste Management Plan v8.

- EPA licence 19643 was updated to include CL/6162/839 due to extend of future wellfield.
- EPA Reissue of Registration of Radiation Apparatus, Certificate No. 23903 (Olympus Innov-X) – new condition details re new EPA guidance document – Portable XRF apparatus.
- SA Approval to operate on site wastewater system – WWI-11235/1

# 6 Verifications of Uncertainties

There were no uncertainties which required verification.

# 7 Changes to Mining Operations and New Environmental Hazards

## 7.1 Changes to Mining Operations

In 2021-2022 a revised PEPR was prepared to detail proposed changes to the processing method and to ensure compliance with the released Determination Terms of Reference for In Situ Recovery Operations (DEM, 2020).

As discussed in Section 1, 2 and 5, of this document, many activities have been undertaken during the reporting year, in order to prepare the site the operational phase.

These changes to the operation (including change in processing method), have also been risk assessed and considered in the key documents as listed in section 5.1.

## 7.2 New Environmental Hazards

90 environmental hazards were identified during the reporting period. These hazards details were entered into the incident reporting system, with appropriate corrective actions assigned.

# 8 Other Information

## 8.1 Technical Reports

No new technical reports were produced during the reporting period.

## 8.2 National Pollutant Inventory Reporting

As part of the annual national pollutant inventory (NPI) reporting requirements, NPI emissions for the Honeymoon Project (SA0579) were formally reviewed for the 2022-2023 reporting period. Due to construction/refurbishment status of the project, the emissions associated with the project for the 2022-2023 period remain under the reporting threshold and therefore no report was submitted.

# 9 References

Boss Resources, 2023. Honeymoon Program for Environment Protection and Rehabilitation (PEPR) v14.

Boss Energy, 2022a. Honeymoon Program for Environment Protection and Rehabilitation (PEPR) v13.

Boss Energy, 2023. Honeymoon Annual Compliance Report – 2022-2023.

Boss Energy, 2023. Honeymoon Decommissioning and Construction Management Plan v4.

DEM, 2020. Determination Terms of Reference 009 Mining Compliance Reports. Department for Energy and Mining, 2020.

UIT, 2017. Honeymoon 1D Reactive Transport Modelling. Report prepared by UIT 2017 for Groundwater Science Pty Ltd.

# 10 Definitions & Abbreviations

| ACRONYM | Definition |
|---|---|
| **ANZECC** | Australian and New Zealand Environment Conversation Council |
| **ARMCANZ** | Agriculture and Resource Management Council of Australia and New Zealand |
| **BLI** | Basal leading indicator monitoring well |
| **BLS** | Barren leach solution |
| **DEM** | Department for Energy and Mining |
| **EPA** | Environment Protection Authority |
| **Honeymoon Mine** | Honeymoon uranium mine |
| **ISR** | In-situ recovery |
| **IVCM** | Inner vertical compliance monitoring well |
| **ML** | Mining lease |
| **MPL** | Miscellaneous purpose licence |
| **NEPM** | National environment protection measures |
| **NPI** | National pollution inventory |
| **OBCM** | Outer basal compliance monitoring well |
| **ORCM** | Outer rock compliance monitoring well |
| **OVCM** | Outer vertical compliance monitoring well |
| **PEPR** | Program for Environment Protection and Rehabilitation |
| **PLS** | Pregnant leach solution |
| **RMP** | Radiation Management Plan |
| **RWMP** | Radioactive Waste Management Plan |
| **SHER** | Safety, Health, Environment and Radiation |

# Appendix A – Checklist for Content of Compliance Report

| Compliance Report Terms of Reference | | |
|---|---|---|
| 4.1 | Public liability insurance | N/A[6] |
| 4.2 | General Information<br>i) Tenement details and number<br>j) Name of the tenement holder and mine operator<br>k) Name of the mine operation<br>l) General location details<br>m) Site contact<br>n) Approved date of approved PEPR<br>o) Dates of the reporting period and report submission date<br>p) Report author and contact details | <br>1.1<br>1.1<br>1.4<br>1.2<br>1.2<br>1.1<br>1.1<br>Front Cover |
| 4.3 | Tenements<br>c) Summary list and status of currency of all tenements covered by the approved PEPR<br>d) A plan(s) of the authorised operations showing all tenement boundaries covered by the approved PEPR. | <br>1.1<br><br>1.4 |
| 4.4 | Other approvals | 2.6 |
| 4.5 | Ore reserves and mineral resources | 2.3 |
| 4.6 | Mining, processing and waste storage activities | 2.1 |
| 4.7 | Compliance with environmental outcomes and leading indicator criteria<br>c) Provide a statement that operations were, or were not compliant with each environmental outcome specified in the tenement conditions or PEPR supported by measurement criteria data that clearly demonstrates the conclusion that the environmental outcome was or was not fully achieved<br>d) Summarise data relating to any leading indicator criteria in the approved PEPR if any leading indicator criteria have been or will become relevant to the operation of any control strategy. | 3.0 |
| 4.8 | Compliance with non-outcome based tenement conditions<br>c) Provide a statement on the compliance status of any tenement conditions of the lease or licence that do not relate to an environmental outcome in the approved PEPR.<br>d) Evidence to support the statement of compliance | 3.0 |
| 4.9 | Rectification of non-compliances<br>Details of each non-compliance including;<br>f) Date<br>g) Specific outcome or tenement condition breached<br>h) Date of incident report submitted to government agencies<br>i) Cause of non-compliance<br>j) Actions taken or yet to be taken to rectify and prevent recurrence | 4.0 |
| 4.10 | Disturbance and rehabilitation activities<br>g) Total land disturbance, activity that created the disturbance during the reporting period<br>h) Rehabilitation works carried out in the reporting period<br>i) Amount of land where rehabilitation works are completed | 3.6 |

[6] Provided separately at time of ACR submission.

| | | |
|---|---|---|
| | j) Estimated amount of land to be rehabilitated in the next reporting period<br>k) Strategies implement to avoid or minimise disturbance<br>l) Potential improvements learned from previous rehabilitation activities | |
| 4.11 | Reconciliation of native vegetation clearance<br>e) Approved maximum clearance in hectares<br>f) Clearance during the reporting period<br>g) Total cleared to date<br>h) Estimated clearance during the next reporting period | 3.6 |
| 4.12 | Environmental Protection and Diversity Conservation Act 1999 reporting | N/A[7] |
| 4.13 | Exempt land<br>b) Details of any exempt land within the tenement(s) and status. | N/A[8] |
| 4.14 | Complaints<br>b) Summary of any complaints raised by third parties for the reporting period | 3.10 |
| 4.15 | Management systems reviews<br>b) Summary of any management system reviews undertaken to ensure compliance with relevant conditions or environmental outcomes. | 5.0 |
| 4.16 | Verification of uncertainty<br>b) A description and status of works undertaken during the reporting period or proposed to be undertaken to address any identified uncertainties or assumptions made in the approved PEPR | 6.0 |
| 4.17 | Change to mining operations and emerging environmental hazards<br>c) A summary list of any changes to mining operations endorsed under the approved PEPR for the reporting period<br>d) A description of any new or emerging environmental hazards that apply, or appear to be arising, in relation to mining operations. | 7.0 |
| 4.18 | Technical reports related to the achievement of environmental outcomes and/or tenement conditions | 8.1 |

[7] The Honeymoon operation is not regulated under the EPBC Act 1999
[8] No exempt land is contained within ML6109, MPL15 and MPL92

# Appendix B - Mining Lease Conditions

**MEMORANDUM OF VARIATION**
***MINING ACT 1971***

| | |
|---|---|
| INSTRUMENT: | 37559 |
| Memorandum of Variation | |
| REGISTER: | Minerals |
| CONSENT: | 12-Oct-2012 |

**ML 6109 (Honeymoon Uranium Mine)**

It is hereby agreed that the following First Schedule and Second Schedules of the lease conditions will override the existing First Schedule and Second Schedules

**FIRST SCHEDULE**

1. Mining operations authorised by this lease must only be for the recovery of Uranium associated with the mining operation known as Honeymoon Uranium Mine as outlined in the

    a. *Southern Cross Resources Pty Ltd, Honeymoon Uranium Project, Environmental Impact Statement, Main Report,* of May 2000; and

    b. *Southern Cross Resources Pty Ltd, Honeymoon Uranium Project, Environmental Impact Statement, Response Document Supplement,* of November 2000.

2. In accordance with Regulation 86(1)(a) the Lessee must provide a Compliance report every year, within 2 months after the anniversary of the date the Lease was granted, or at some other time agreed with the Minister.

3. The Lessee agrees to the approved PEPR (section 70B (5)) and the Compliance report (regulation 86) and any reportable incident reports (Regulation 87) being made available for public inspection.

4. In accordance with Regulation 90(1) the Lessee must, prior to commencing operations under this Lease and for the duration of the lease maintain public liability insurance to cover all operations under the Lease in the name of the Lessee for a sum not less than $50 million or such greater sum as specified by the Minister, and make such amendments to the terms and conditions of the insurance as the Minister may require.

5. In requesting a review of the bond required under the *Mining Act 1971*, the Minister may request that written quotes from an independent third party approved by the Minister are obtained by the Lessee for the cost of rehabilitating the site to the requirements specified in the approved Program under Regulation 65(2).

6. The Lessee must meet all the charges and costs in obtaining and maintaining the Bond.

7. The lessee is authorised under section10A (1) of *the Mining Act 1971* to conduct mining operations to recover radioactive minerals.

8. The lessee is authorised by the Ministers under section10A (4) of the *Mining Act 1971* to dispose and sell radioactive minerals.

ENTERED IN THE REGISTER
MINING REGISTRAR

## SECOND SCHEDULE

### *ENVIRONMENTAL OUTCOMES*

1. For the purposes of preparation of the Program for Environment Protection and Rehabilitation under section 70B(2) and associated Regulations of the Mining *Act 1971*, the following environmental and mine rehabilitation outcomes must be included:

***A. Aboriginal and European heritage***

The Lessee must, in constructing and operating the Lease, ensure that there is no disturbance to Aboriginal or European sites, objects or remains unless prior approval under the relevant legislation is obtained.

***B. Native vegetation***

The Lessee must, in constructing and operating the Lease ensure no loss of abundance or diversity of native vegetation on or off the Lease through:

- clearance,
- dust/contaminant deposition,
- fire, or
- other damage

unless prior approval under the relevant legislation is obtained.

***C. Groundwater and surface water***

The Lessee must, in constructing and operating the lease ensure that there is no compromise to the environmental values of the Eyre Formation aquifer outside of the Mining Lease.

(Environmental Values will be defined according to: *The environmental values recognised in 'ANZECC & ARMCANZ 2000. Australian and New Zealand guidelines for fresh and marine water quality. National Water Quality Management Strategy Paper No 4, Australian and New Zealand Environment and Conservation Council & Agriculture and Resource Management Council of Australia and New Zealand, Canberra.')*

***D. Waste disposal and hazardous substances***

The Lessee must, in constructing and operating the Lease ensure that no contamination and/or pollution of natural water drainage systems, streams and rivers, groundwater, land and soils occurs either on or off site is caused by waste products and hazardous materials used in the mine operations.

The Lessee must, in constructing and operating the lease ensure that there are no adverse impacts to the environment due to radon release, uranium-bearing materials, or radiological aspects of seepages and spills.

***E. Weeds and pests (feral animals)***
The Lessee must, in constructing and operating the Lease ensure no introduction of new species of weeds, plant pathogens or pests (including feral animals), nor sustained increase in abundance of existing weed or pest species in the Lease area compared to adjoining land.

*(Weeds are defined in this condition as any invasive plant that threatens native vegetation in the local area or any species recognised as invasive in South Australia.)*

***F. Public Safety***
The Lessee must, in constructing and operating the Lease, ensure that unauthorised entry to the site does not result in public injuries and or deaths that could have been reasonably prevented.

***G. Stormwater***
The Lessee must, in constructing and operating the Lease ensure no water contaminated as a result of mining operations leaves the Lease area or results in loss of or contamination of soil on or off the Lease/Licence.

***H.Flooding/runoff***
The Lessee must, in constructing and operating the Lease ensure no water runoff from the Lease results in flooding of adjacent areas, to an extent greater than that that could reasonably be expected to occur prior to mining operations being established on the Lease.

***I. Soil***
The Lessee must, in constructing and operating the Lease ensure that the existing soil quality and quantity is maintained.

***J. Mine rehabilitation***
The Lessee must demonstrate that the following outcomes (in so far as they may be affected by mining operations) are expected to be achieved indefinitely post mine closure to the satisfaction of the Director of Mines:

a. No compromise to the environmental values of the Eyre Formation, aquifer
b. The external visual amenity of the site is acceptable to relevant stakeholders
c. Risks to the health and safety of the public, native fauna and livestock are as low as reasonably achievable
d. Ecosystem and landscape function is resilient, self-sustaining and indicating that the pre-mining ecosystem and landscape function will ultimately be achieved.
e. The site is physically stable
f. All waste materials left on site are chemically and physically stable

***OTHER ENVIRONMENTAL CONDITIONS***

***Waste Process Water***

2. The Lessee shall ensure that waste process water, is held in appropriately constructed surface solids retention pond, or settling dam and may dispose of the liquor by re-injection, via a disposal well or array of wells, or as they become available, into mined out areas of the Basal Sands ore zone aquifer, by an approved method to an approved location, to the satisfaction of the Minister.

***Waste disposal and hazardous substances***

3. The Lessee must, in constructing and operating the Lease ensure that all commercial or industrial waste is disposed of in accordance with relevant legislation.

***PEPR Specific content***

4. The Program for environment protection and rehabilitation prepared under section 70B(2) must:

    a. Outline the methodology to determine the location and number of injection and production boreholes and the monitoring boreholes used to detect excursions of leachate;

    b. establish corrective action plans to be implemented to arrest and reverse any lateral or vertical excursion of leachate from the controlled mining zone;

    c. describe techniques to be implemented for the progressive rehabilitation of land and borefields and methodology to quantify the progressive extent of impact and completed rehabilitation;

***Borehole closure***

5. The lessee shall ensure that upon closeout of mining and rehabilitation, boreholes to detect long-term fluid migration and water quality are monitored for an appropriate term to demonstrate achievement of the mine rehabilitation outcomes.

***Operational Controls***

*6.* The Lessee shall implement best practice automation of operational controls for the monitoring and control of wellfield and processing operations. This will include *inter alia:*

    *a.* Continuous and automatic monitoring of pressures (including inter alia the hydrostatic pressures in injection wells), flow rates and any other parameters required for the prompt detection and resolution of abnormal operating conditions in the wellfield, processing plant and pipes connecting them;

    *b.* Continuous and automatic monitoring of process plant functions, including tank levels, flow rates, pressures and fluid quantities;

    *c.* The integration of data through a central computer-based monitoring system.

***Adequate monitoring***

7. The lessee shall ensure that an adequate number of perimeter monitoring boreholes be installed at sufficient distance from the pattern to be unaffected by operational flare but close enough to detect excursions which can be controlled during routine operations.

8. The lessee shall ensure that overlying and any underlying aquifer monitoring boreholes, fitted with piezometers, are installed at adequate distance from the mineralised zone to ensure baseline water quality is sufficiently characterised and shall be used to monitor for mining fluid excursions.

***Trunklines***

9. The lessee shall, where practicable lay trunk lines for the circulation of mining solutions on the surface of the ground, rather than bury the pipes, to avoid unnecessary ground disturbance, vegetation clearance and rehabilitation

***Refuelling***

10. Fuel storage to be bunded in accordance with Environment Protection Authority requirements.

***Other legislation***

11. The above environmental outcomes do not derogate from the operation of any other Acts that may be applicable to this operation including (but not limited to):

    a. Aboriginal Heritage Act 1988

    b. Environment Protection Act 1993

Dated this Twelfth day of October 2012

DIRECTOR OF MINES Adelaide

**PRU FREEMAN**
**DEPUTY EXECUTIVE DIRECTOR**
**MINERAL RESOURCES**
Signed in accordance with delegated Ministerial powers and functions

Accepted this 9TH day of OCTOBER 2012

.....
**URANIUM ONE AUSTRALIA PTY LTD (ABN 15 069 420 462)**

# Appendix C – Groundwater Monitoring Results

# Appendix A. Basal Eyre Formation - Groundwater Monitoring Results

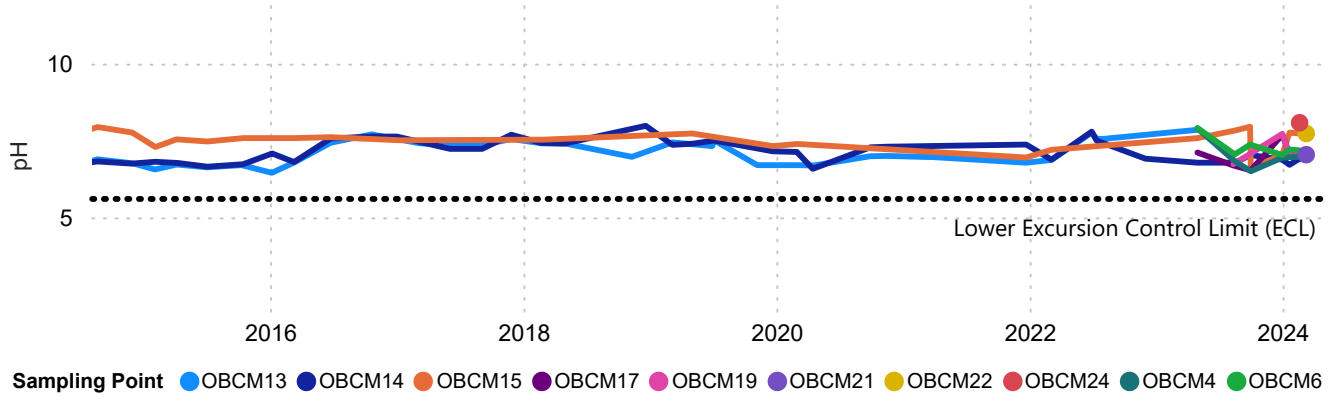



**Figure A.1: Wellfield Perimeter Monitor Wells - pH Levels**

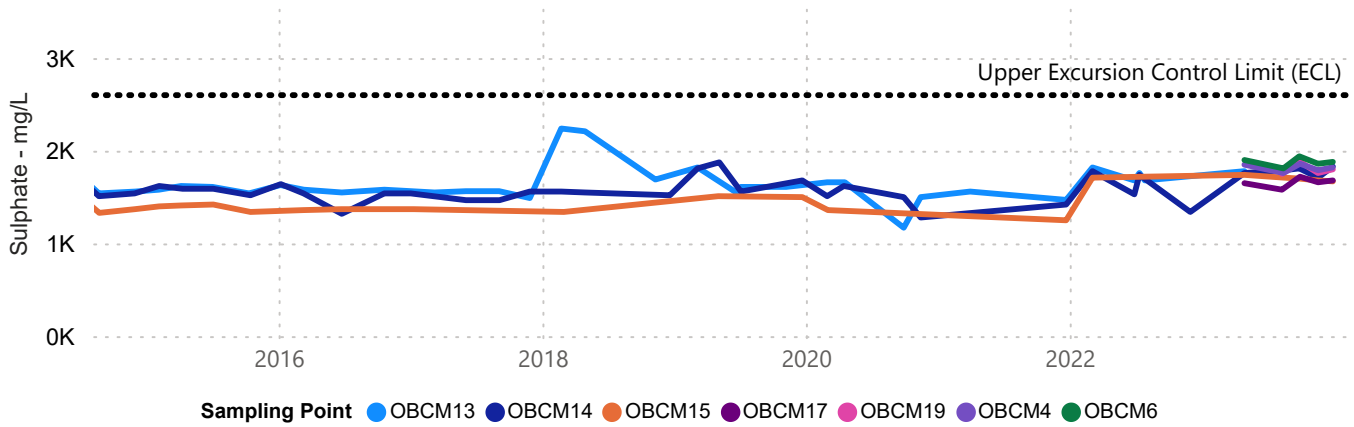



**Figure A.2 Wellfield Perimeter Monitor Wells - Sulphate Concentrations**

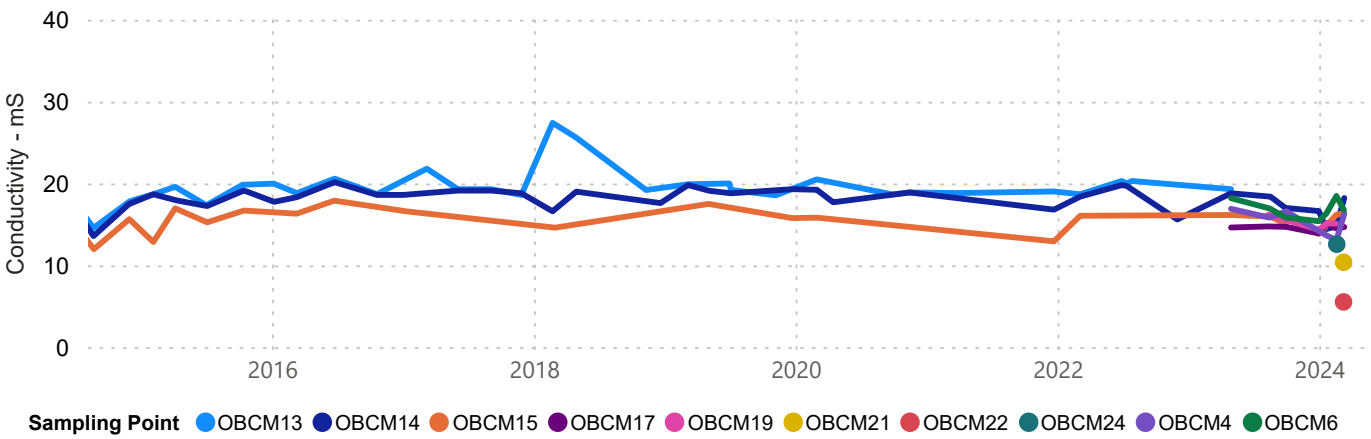



**Figure A.3: Wellfield Perimeter Monitor Wells - Conductivity**

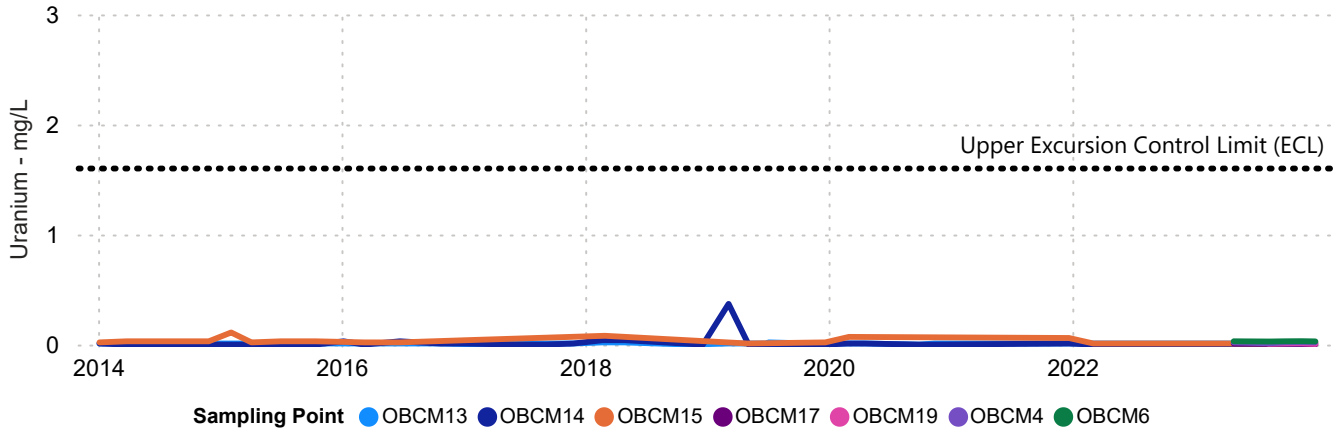



**Figure A.4: Wellfield Perimeter Monitor Wells - Uranium Levels**

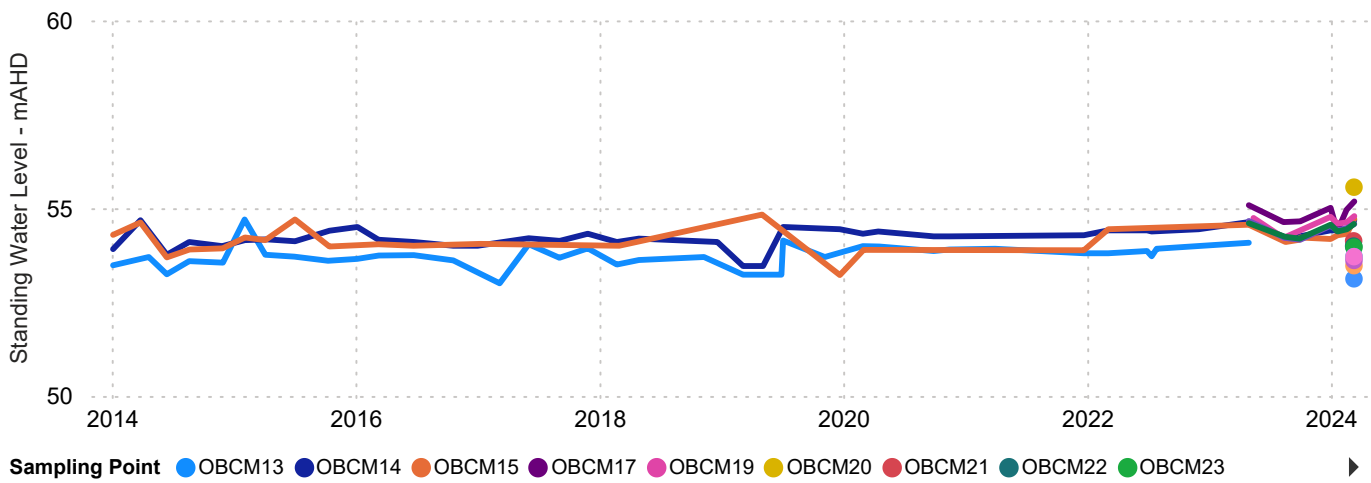



**Figure A.5: Wellfield Perimeter Monitor Wells - Water Levels (mAHD)**

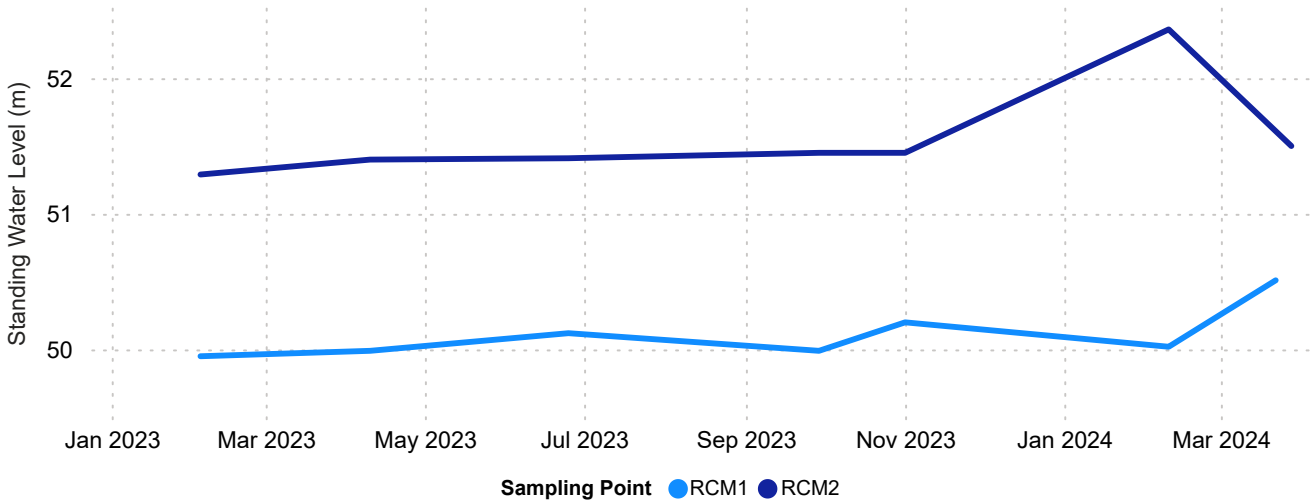



**Figure A.6: Regional Water Level Monitoring**

# Appendix B. Upper Eyre Formation - Groundwater Monitoring Results

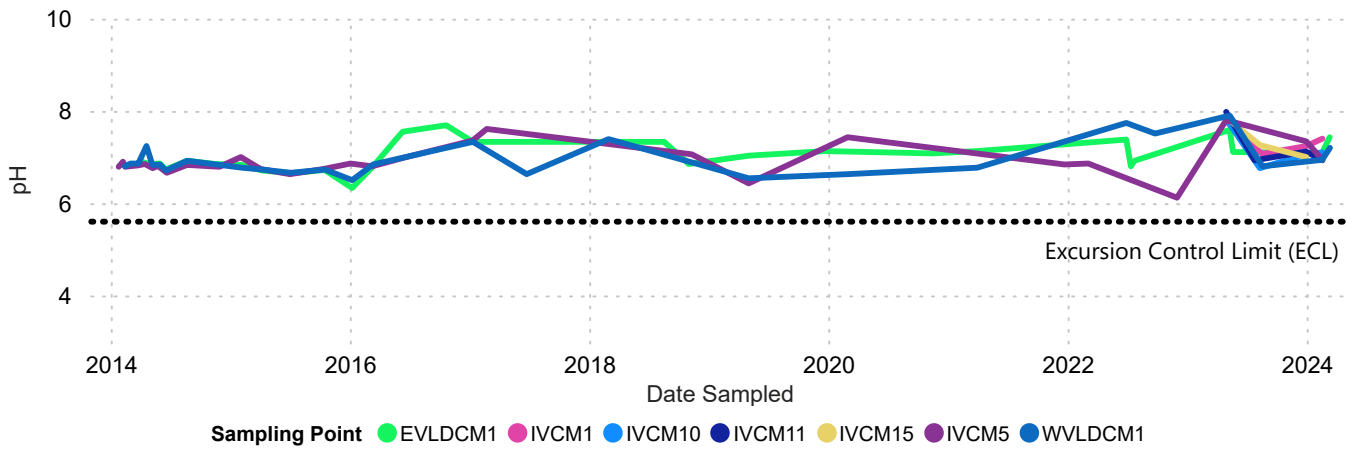



**Figure B.1: Upper Eyre Formation - pH Levels**

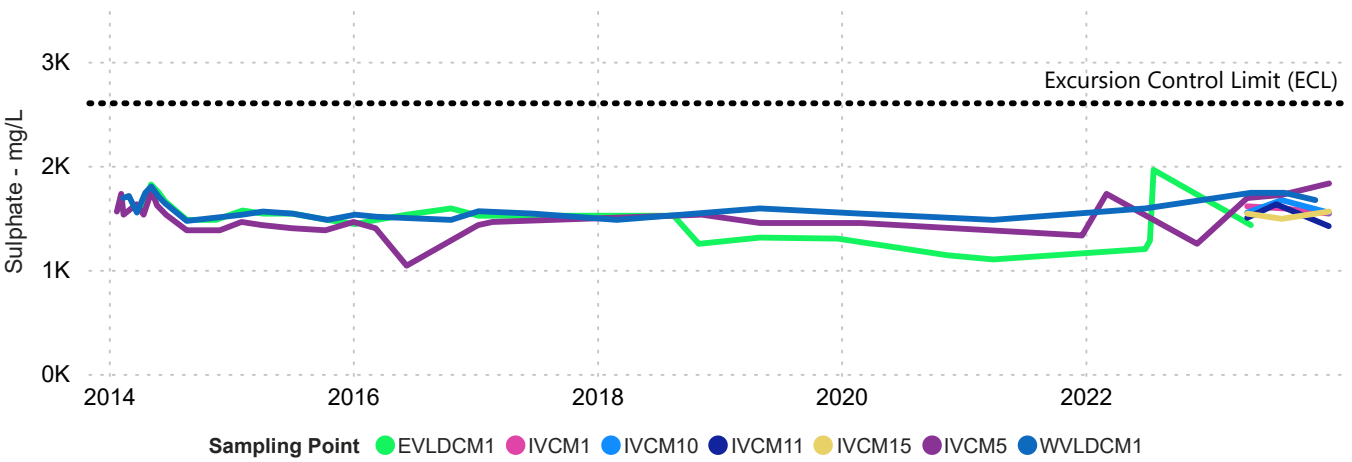



**Figure B.2: Upper Eyre Formation - Sulphate Concentrations**

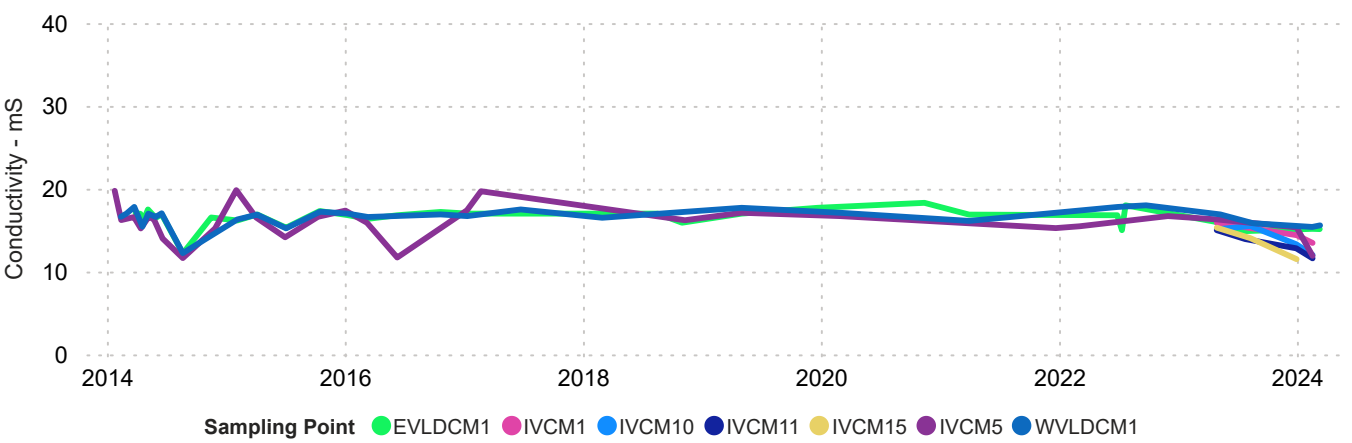



**Figure B.2: Upper Eyre Formation - Conductivity**

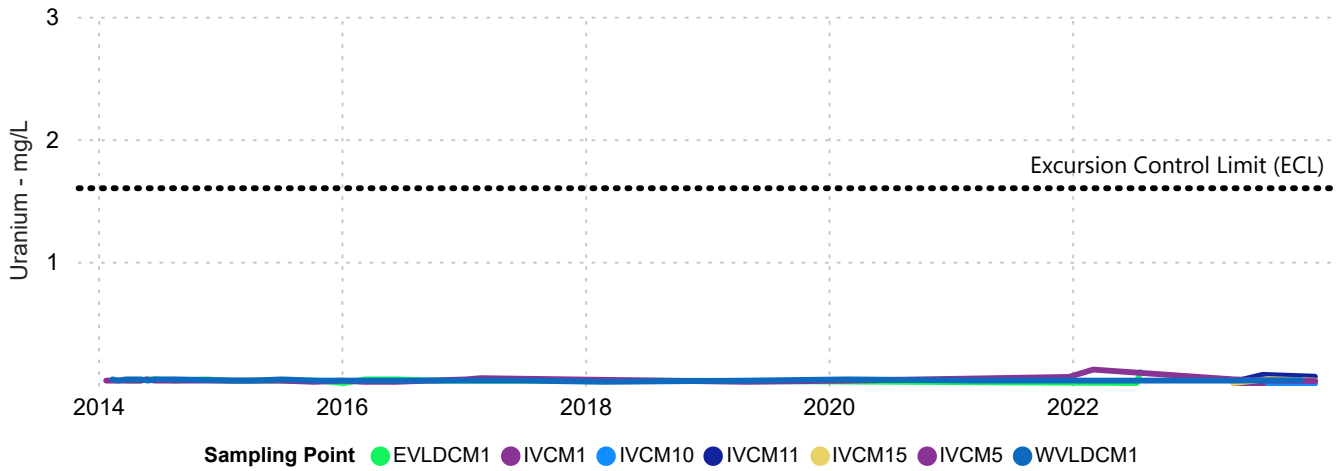



**Figure B.4: Upper Eyre Formation Monitor Wells - Uranium Levels**

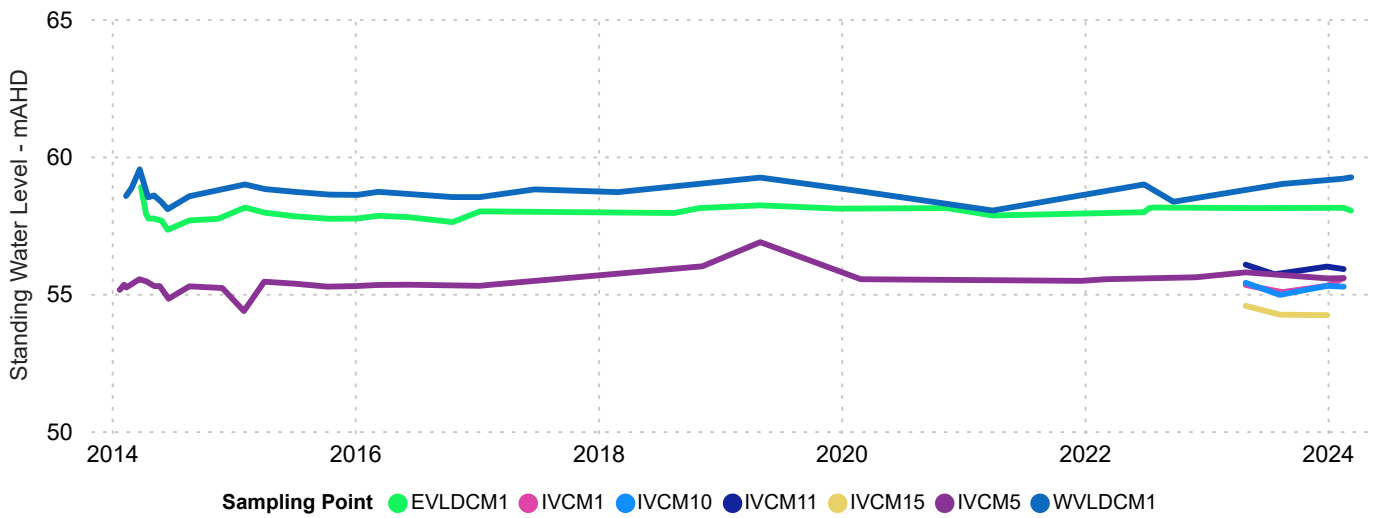



**Figure B.5: Upper Eyre Formation Monitor Wells - Water Levels (mAHD)**

# Appendix C. Liquid Disposal Monitor Wells - Groundwater Monitoring Results

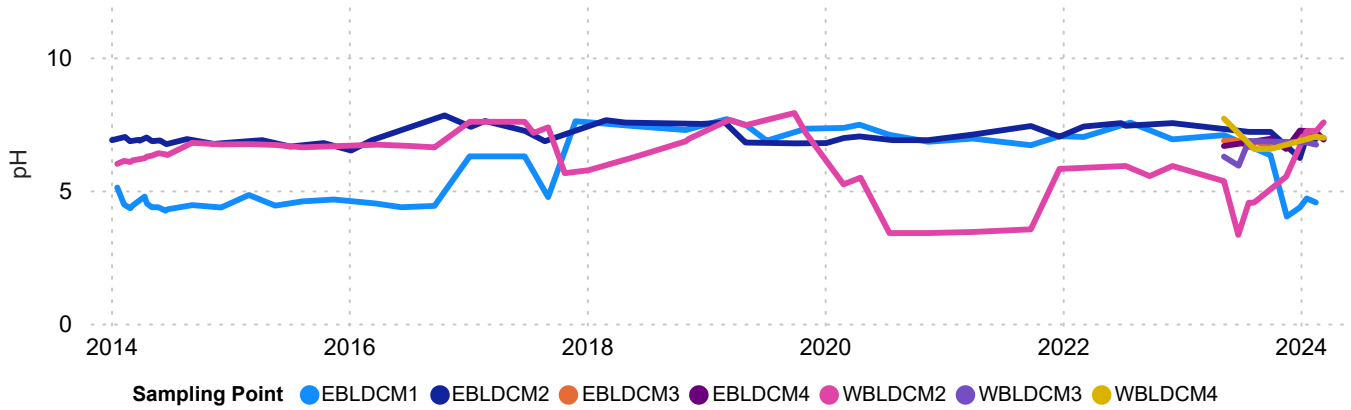



**Figure C.1: Liquid Disposal Monitor Wells - pH Levels**

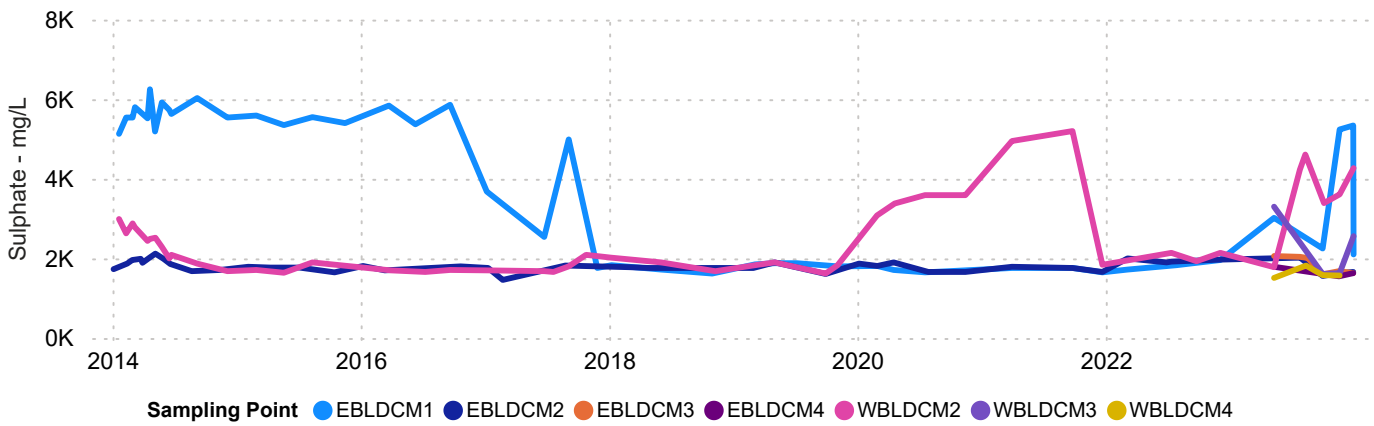



**Figure C.2 Liquid Disposal Monitor Wells - Sulphate Concentrations**

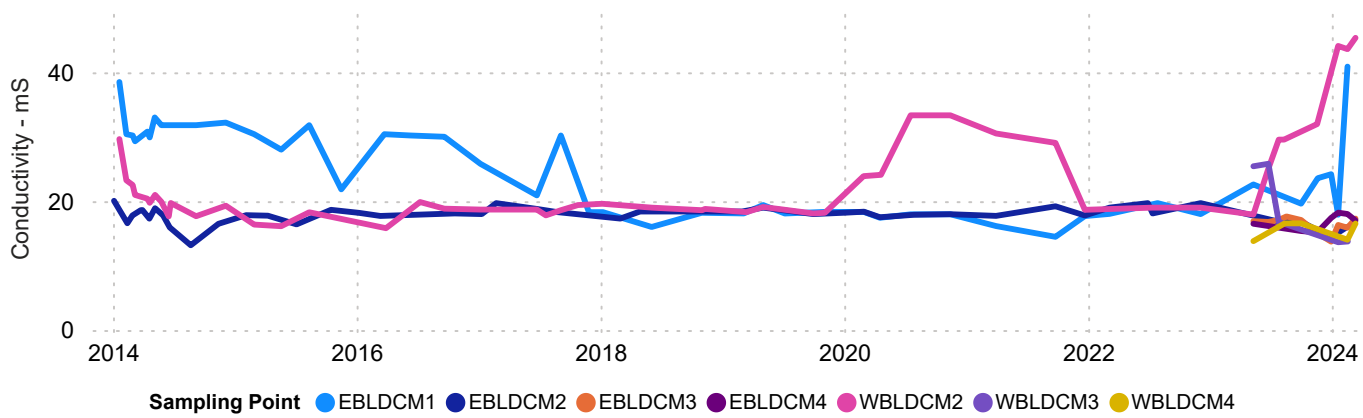



**Figure C.3: Liquid Disposal Monitor Wells - Conductivity**

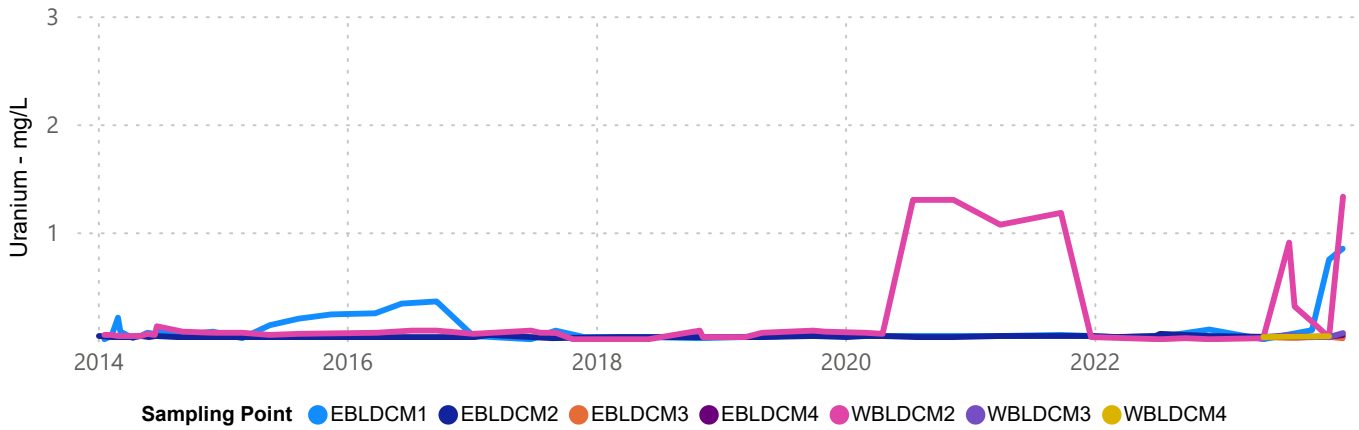



**Figure C.4: Liquid Disposal Monitor Wells - Uranium Levels**

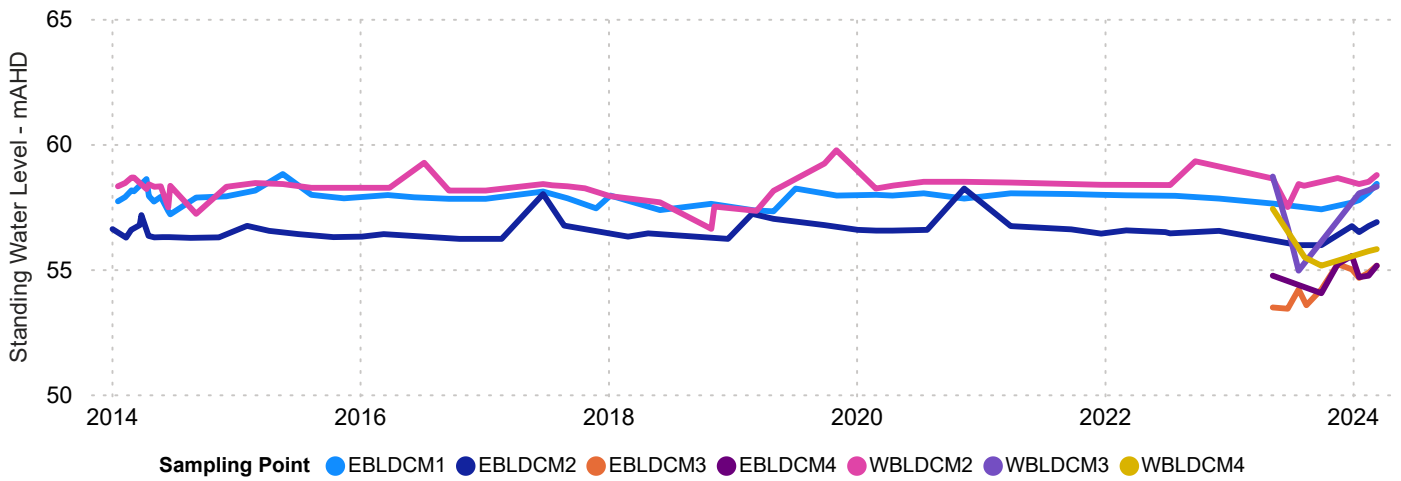



**Figure C.5: Liquid Disposal Monitor Wells - Water Levels (mAHD)**

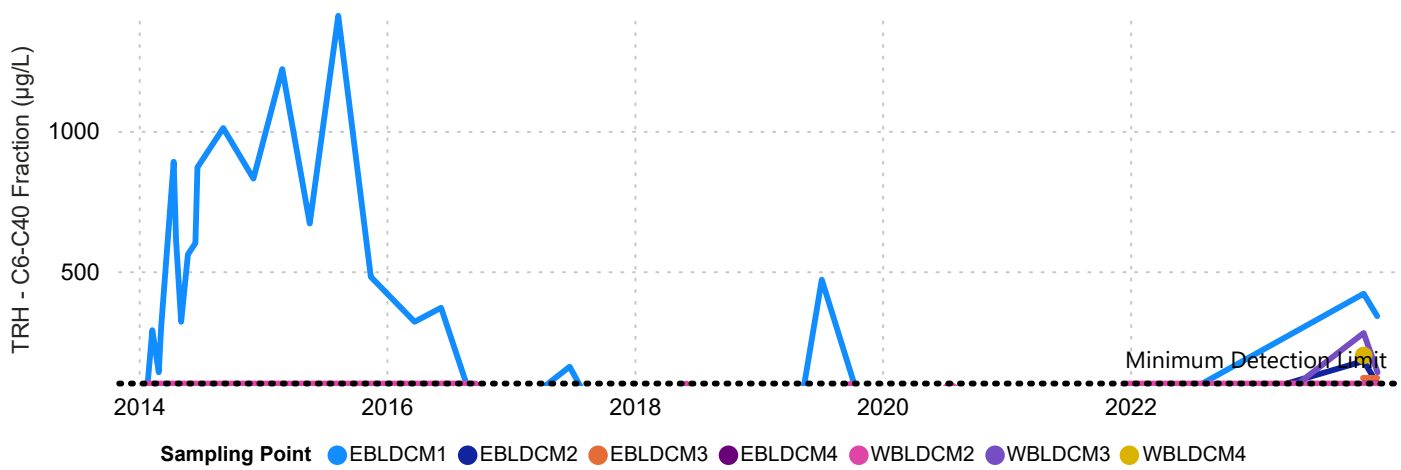



**Figure C.6: Liquid Disposal Monitor Wells - Total Recoverable Hydrocarbons**

# Appendix D. Wellfield & Liquid Disposal Monitor Well Locations

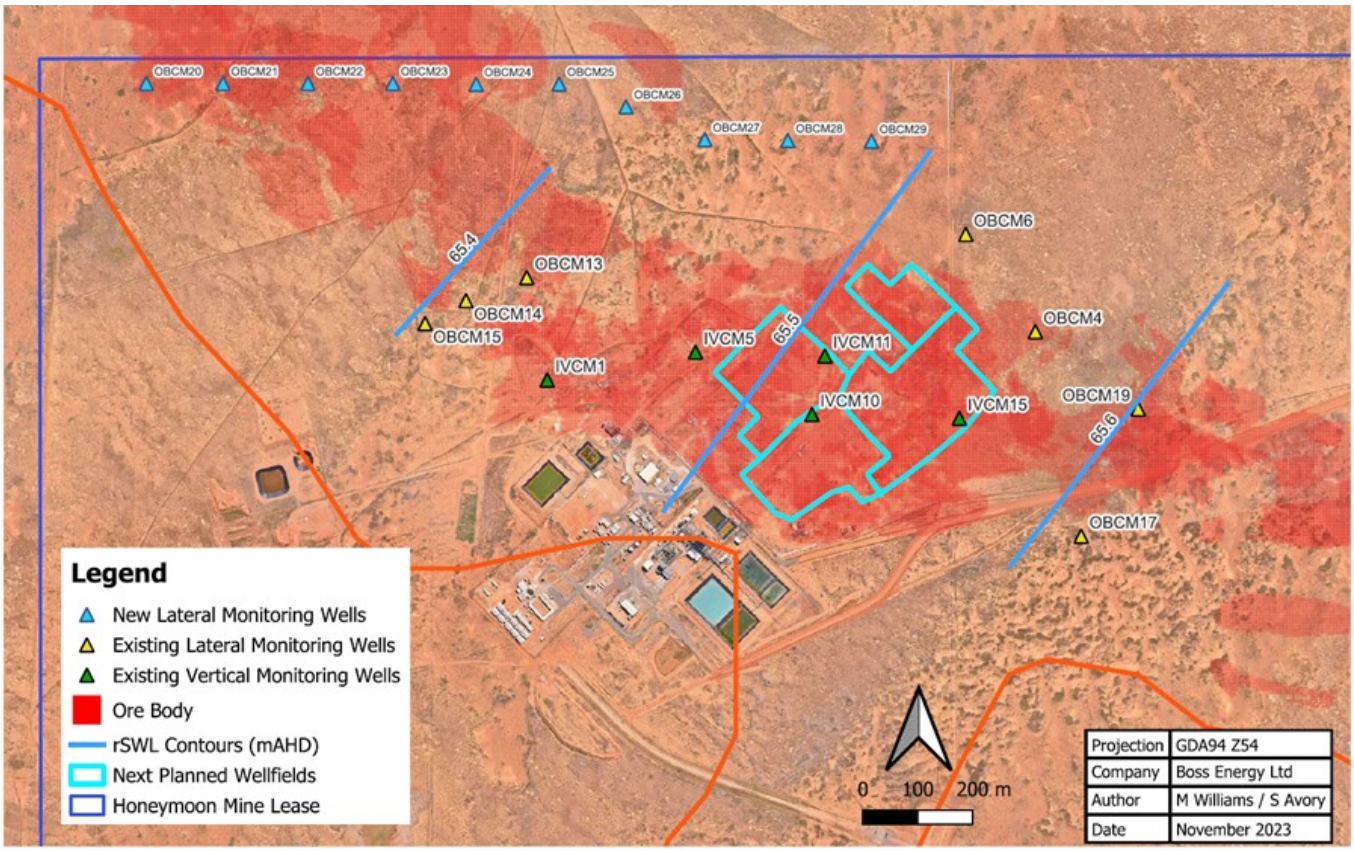



**Figure E.1: Wellfield Monitor Wells**

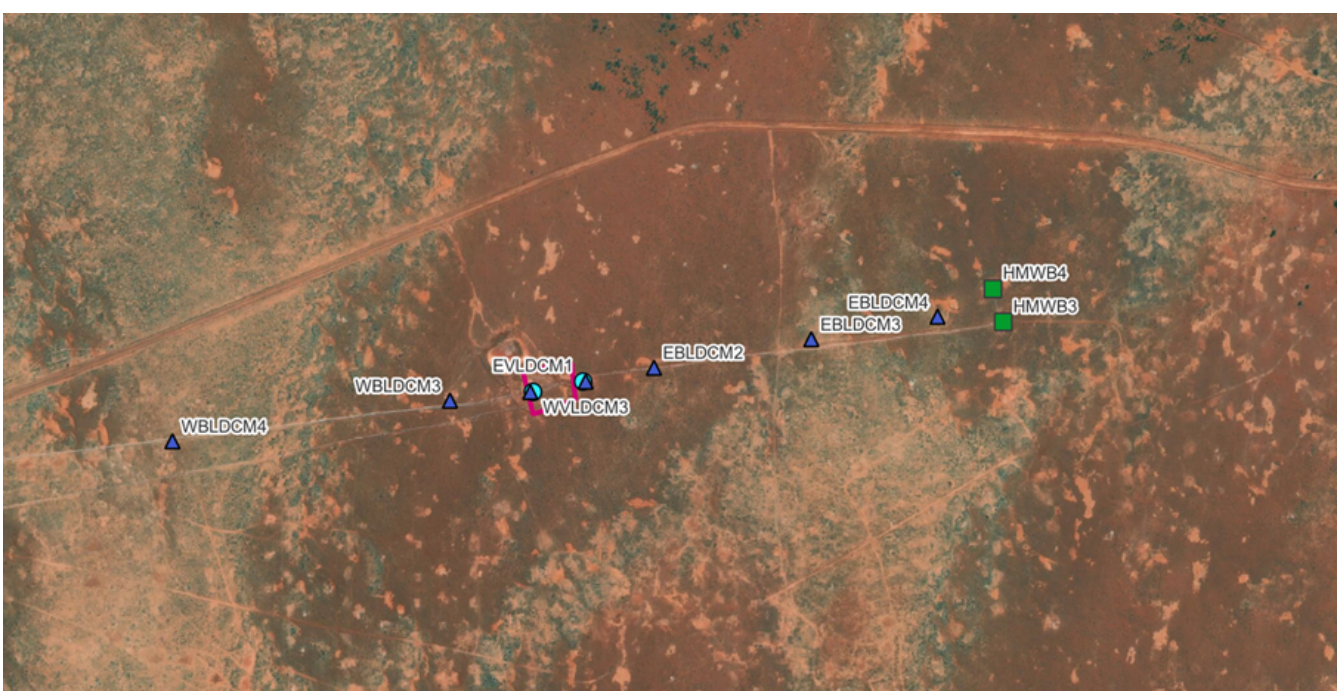



**Figure E.2: Liquid Disposal Monitor Wells**

# Appendix E. Quarterly - Liquid Disposal Pond Quality & Discharge Quantities

**Table E.1: Liquid Disposal Fluid - Radionuclide Concentrations**

| Quarter | Uranium - mg/L | Radium 226 - Bq/L | No. of Samples |
|---|---|---|---|
| 2023-Q1 | 5.62 | 11.20 | 1 |
| 2023-Q2 | 1.13 | 34.00 | 1 |
| 2023-Q3 | 0.45 | 17.50 | 2 |
| 2023-Q4 | 9.67 | 15.80 | 3 |

**Figure E.1: Liquid Disposal Fluid - Radionuclide Concentration Trends**

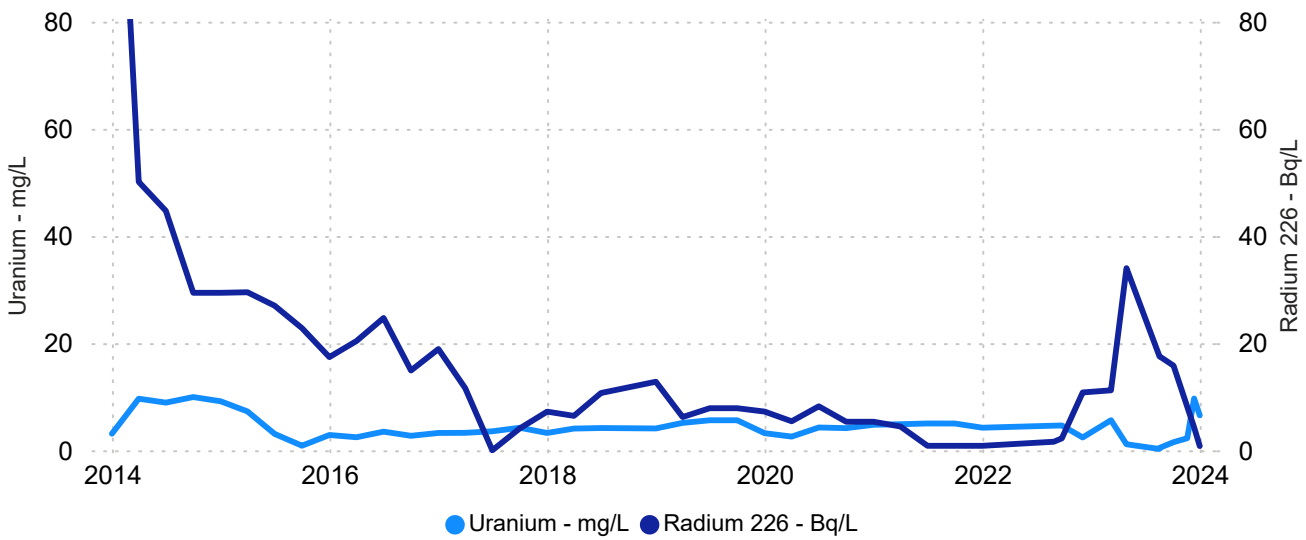
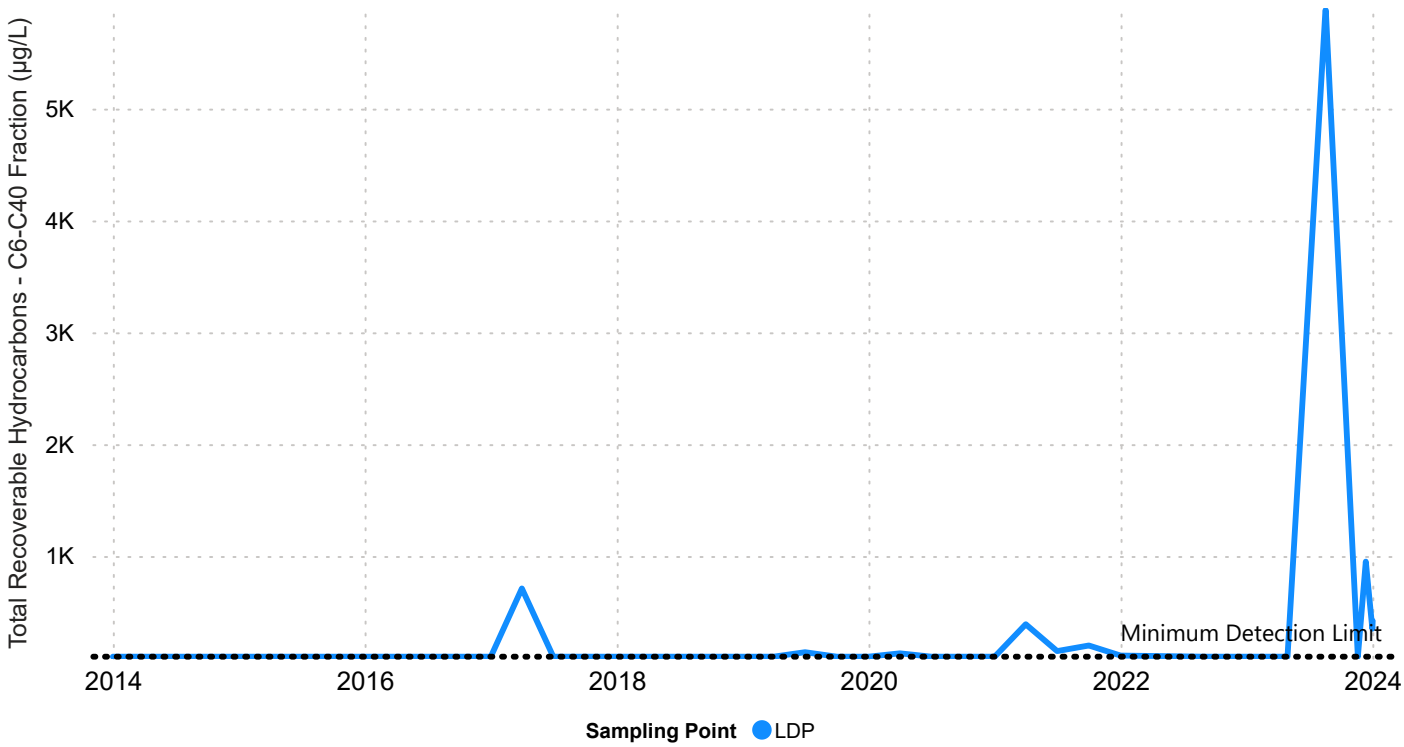



**Table E.2 Liquid Disposal Fluid - Disposal Volumes**

| | 2023-Q2 | 2023-Q3 | 2023-Q4 |
|---|---|---|---|
| LDW007 Flowmeter - Volume (m3) | 3,374.20 | 3,697.60 | 0.00 |
| LDW009 Flowmeter - Volume (m3) | 5,363.80 | 6,651.40 | 9,964.00 |
| LDW010 Flowmeter - Volume (m3) | 0.00 | 1,105.00 | 9,964.00 |
| Total Disposal Volume | 8,738.00 | 11,454.00 | 19,928.00 |
| Average Injection Rate (m3/hr) | 41.56 | 54.47 | 47.30 |

**Figure E.2: Liquid Disposal Fluid - Hydrocarbon Concentrations**

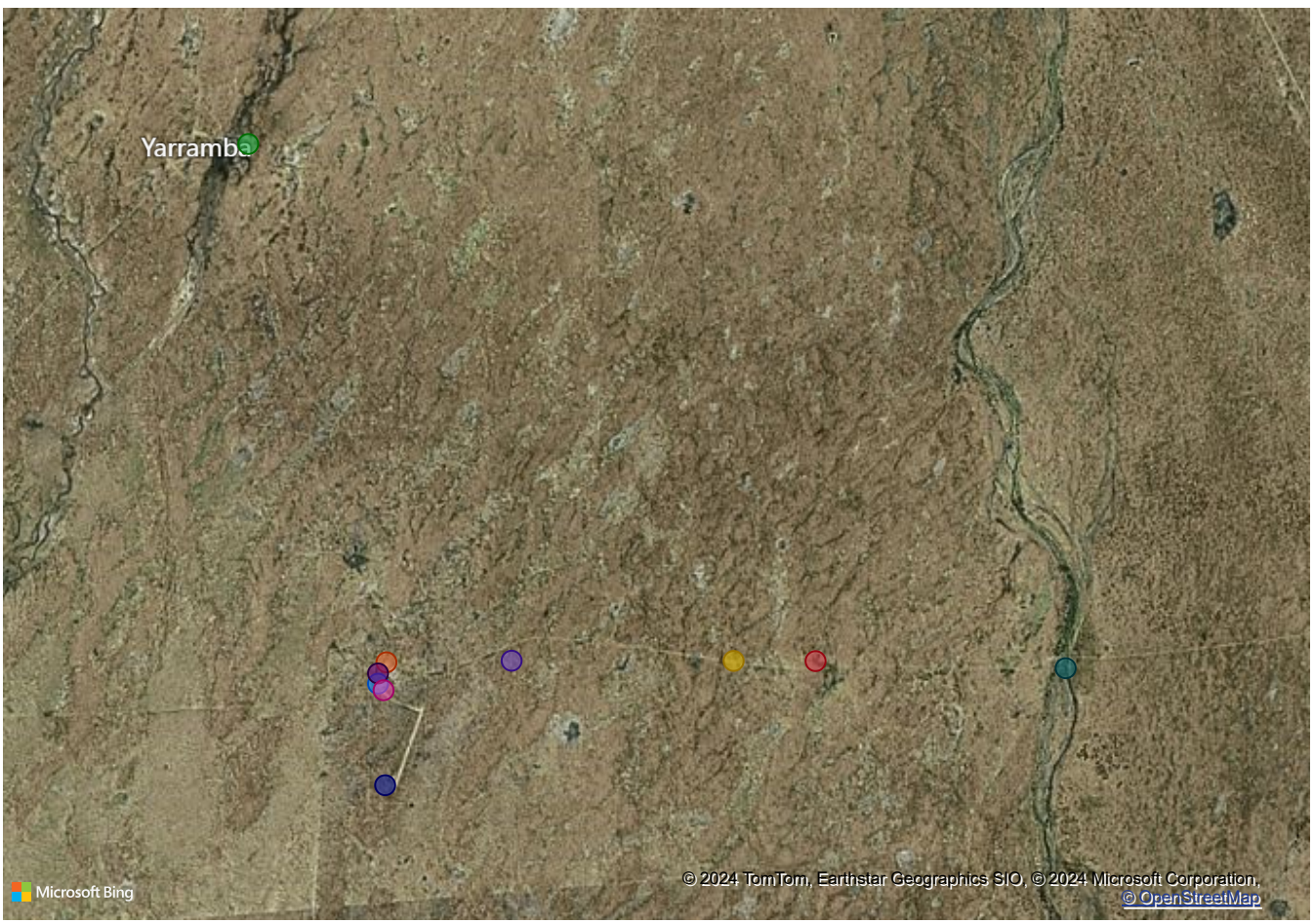


# Appendix F. Annual Weed & Pest Survey Results

**Table F.1: Weed & Pest Survey Points & Frequency**

| ID No. | Control or Impact Site | Frequency | Latitude | Longitude |
|---|---|---|---|---|
| WF01 | Impact Site - On ML | Annual | -31.743749 | 140.660213 |
| WF02 | Impact Site - On ML | Annual | -31.759364 | 140.661497 |
| WF03 | Impact Site - On ML | Annual | -31.740459 | 140.661733 |
| WF04 | Impact Site - On ML | Annual | -31.742174 | 140.660218 |
| WF05 | Impact Site - On ML | Annual | -31.744754 | 140.661215 |
| WF06 | Impact Site - On ML | Annual | -31.740216 | 140.684353 |
| WF07 | Control Site - Off ML | Annual | -31.740246 | 140.724482 |
| WF08 | Control Site - Off ML | Annual | -31.740277 | 140.739283 |
| WF09 | Control Site - Off ML | Annual | -31.741372 | 140.784486 |
| WF10 | Control Site - Off ML | Annual | -31.660710 | 140.636754 |

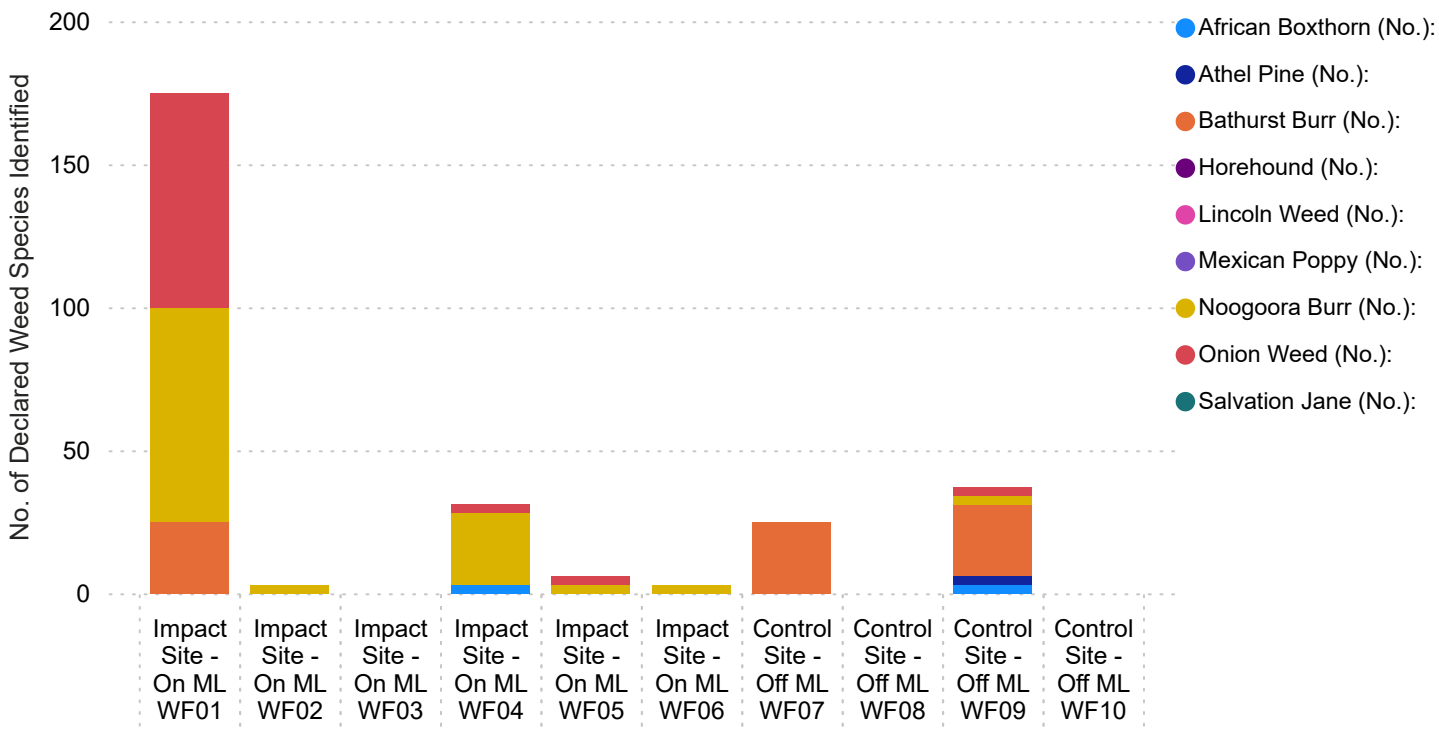
**Figure F.1: Weed & Pest Survey Locations**



## Table F.2: Declared Weed Species - Density Survey Results

| | WF01 | WF02 | WF03 | WF04 | WF05 | WF06 | WF07 | WF08 | WF09 | WF10 |
|---|---|---|---|---|---|---|---|---|---|---|
| **A. Boxthorn** | 0 - None | 0 - None | 0 - None | <5 - Low | 0 - None | 0 - None | 0 - None | 0 - None | <5 - Low | 0 - None |
| **Athel Pine** | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | <5 - Low | 0 - None |
| **Bathurst Burr** | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None |
| **Horehound** | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None |
| **Lincon Weed** | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None |
| **M. Poppy** | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None |
| **Noogoora Burr** | >50 - High | <5 - Low | 0 - None | 0 - None | <5 - Low | <5 - Low | 0 - None | 0 - None | <5 - Low | 0 - None |
| **Onion Weed** | >50 - High | 0 - None | 0 - None | <5 - Low | <5 - Low | 0 - None | 0 - None | 0 - None | <5 - Low | 0 - None |
| **Salvation Jane** | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None | 0 - None |

## Figure F.2: Declared Weed Species - Density Survey Results




## Table F.3 Compliance Assessment

| Control or Impact Site | Total No. Declared Weeds | No. Declared Weeds (Normalised) Per Site | New Declared Weeds Identified? |
|---|---|---|---|
| Control Site - Off ML | 62 | 16 | No |
| Impact Site - On ML | 218 | 36 | No |

**Table F.4: Pest Species - Monitoring Results**

| | WF01 | WF02 | WF03 | WF04 | WF05 | WF06 | WF07 | WF08 | WF09 | WF10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Feral Cat (No.): | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| Wild Dog (No.) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Goat (No.): | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 16 | 0 | 0 |
| Pig (No.): | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fox (No.): | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mouse (No.): | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sheep (No.): | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Rabbit (No.): | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 3 | 0 | 5 |

**Figure F.3: Pest Species - Monitoring Results**

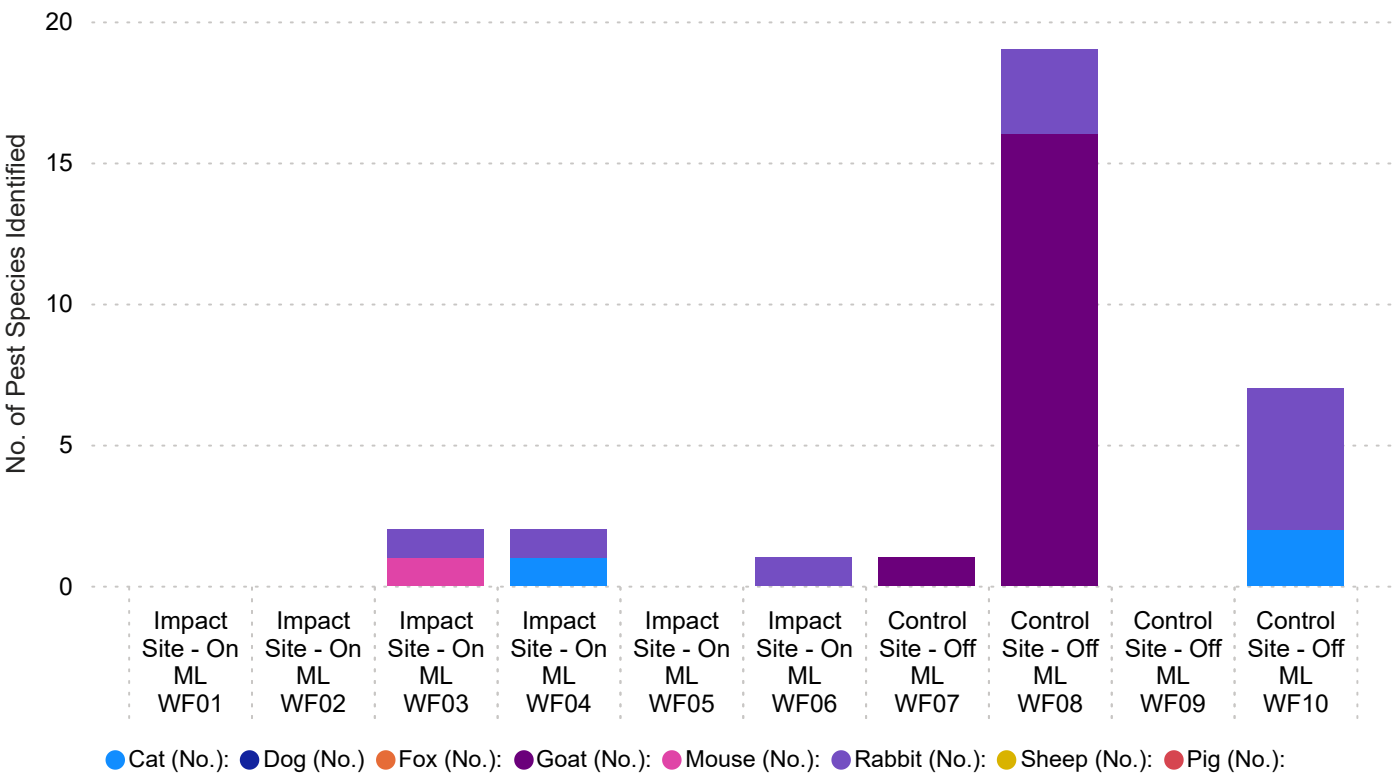



**Table F.5: Compliance Assessment**

| Control or Impact Site | Total No. Pests Identified - All Sites | No. Pest Species - Per Site (Normalised) | New Pest Species Identified? |
|---|---|---|---|
| Impact Site - On ML | 5 | 1 | No |
| Control Site - Off ML | 27 | 7 | No |

# Appendix G. Soil Stockpile & Inspection Records

**Table G.1: Soil Stockpile Establishment Records**

| Stockpile ID: | Sum of Average Height (m) | Maximum Height (m) | Total Volume (m3) |
|---|---|---|---|
| SS1 | 0.99 | 1.77 | 230.67 |
| SS10 | 1.21 | 2.15 | 2,830.09 |
| SS2 | 2.23 | 2.58 | 2,248.20 |
| SS3 | 0.99 | 1.77 | 230.67 |
| SS4 | 1.23 | 1.49 | 233.93 |
| SS5 | 2.15 | 2.22 | 4,128.00 |
| SS6 | 0.90 | 1.12 | 1,524.33 |
| SS7 | 1.29 | 2.39 | 7,506.51 |
| SS8 | 1.83 | 2.52 | 14,332.56 |
| SS9 | 1.96 | 2.70 | 47,079.20 |

**Table G.2: Annual Soil Stockpile Inspection**

| Stockpile ID: | Evidence of Unauthorised Removal? | All Stockpiles Remain <3 m |
|---|---|---|
| SS1 | No | Yes |
| SS10 | No | Yes |
| SS2 | No | Yes |
| SS3 | No | Yes |
| SS4 | No | Yes |
| SS5 | No | Yes |
| SS6 | No | Yes |
| SS7 | No | Yes |
| SS8 | No | Yes |
| SS9 | No | Yes |

# Appendix H. Native Vegetation Clearance & Rehabilitation Records

**Table H.1: Native Vegetation Clearance & Rehabilitation Areas - Historic Cumulative Totals**

| Domain | Total Clearance (ha) | Area Rehabilitated (ha) |
|---|---|---|
| Accommodation Area | 2.34 | 0.00 |
| Administration & Support Facilities | 5.25 | 0.00 |
| Electricity Transmission Line (MPL92) | 50.00 | 0.00 |
| Exploration | 0.85 | 0.00 |
| Liquid Disposal Zone | 1.93 | 0.00 |
| Miscellaneous | 0.77 | 0.18 |
| New & Internal Roads | 4.37 | 0.00 |
| Old Construction Laydown | 2.70 | 1.20 |
| Process Plant | 7.56 | 0.00 |
| Soil Stockpile Areas | 1.41 | 1.75 |
| Waste Facilities | 9.07 | 1.60 |
| Water Treatment Plant & Ponds | 1.91 | 0.00 |
| Wellfields | 35.40 | 2.80 |
| **Total** | **123.56** | **7.53** |

**Table H.2: Native Vegetation Clearance & Rehabilitation Areas - Current Reporting Period**

| Domain | Total Clearance Area (ha) | Area Rehabilitated (ha) | SEB Credits Held | SEB Credits Remaining |
|---|---|---|---|---|
| Wellfields | 4.69 | 0.00 | | -4.69 |
| Waste Facilities | 5.73 | 0.00 | | -5.73 |
| Miscellaneous | 0.54 | 0.00 | | -0.54 |
| Exploration | 2.20 | 0.00 | | -2.20 |
| | | 0.00 | 66.44 | 66.44 |
| **Total** | **13.16** | **0.00** | **66.44** | **53.28** |

## Table H.3: Proposed Native Vegetation Clearance & Rehabilitation Areas - Next Reporting Period

| Domain | Proposed Clearance (ha) | Proposed Rehabilitation (ha) |
|---|---|---|
| Waste Facilities | 3.62 | 1.00 |
| Wellfields | 20.00 | 2.00 |
| **Total** | **23.62** | **3.00** |

# Appendix D – Exploration Compliance Report

**Appendix D – Exploration on ML6109**

## SECTION A - EXPLORATION ACTIVITIES

**Table 1: Summary of exploration activities**

| Tenement | Program notification Submit date | Drillholes | Type of drilling | Total metres drilled | Cleared drill pads created | Number of new drill lines/access tracks | New drill line/access track length (km) | Ancillary exploration activities | Costeans | Comments/other approved activities |
|---|---|---|---|---|---|---|---|---|---|---|
| ML6109 | N/A | 18 | Mud Rotary | 2298 | 27 | 9 | 1.7 | None | None | N/A |
| **TOTAL** | | 18 | | **2298** | **27** | **9** | **1.7** | **None** | **None** | |

## SECTION B – REHABILITATION

### Cumulative Summary of Exploration Activities

**Table 2: Cumulative summary of exploration activities**

| Tenement number | Program notification submit date | Drillholes /sites | Rehabilitated drill sites | Drill lines/ access tracks | Drill line/access track length (km) | Rehabilitated drill line/access track (km) | Costeans | Costeans rehabilitated | Comments |
|---|---|---|---|---|---|---|---|---|---|
| ML6109 | N/A | 18 | 14 | 9 | 1.7 | 0 | 0 | NA | |
| | | 18 | 14 | 9 | 1.7 | 0 | | | |

**Table 3: Cumulative area of disturbance**

| Tenement number | Program notification submit date | Total area of disturbance - drillholes /sites (ha? m2) | Total area rehabilitated - drillholes /sites (area ha or m2) | Total area of disturbance - drill lines/ access track (ha or m2) | Total area rehabilitated - drill line/access track (ha or m2) | Total area of disturbance - Costeans (ha or m2) | Total area rehabilitated – costeans (ha or m2 | Comments |
|---|---|---|---|---|---|---|---|---|
| ML6109 | N/A | 10,800 m2 | 5600 m2 | 5,205 m2 | 0 | 0 | 0 | |
| | | 10,800 m2 | 5600 m2 | 5,205 m2 | 0 | 0 | | |

## Rehabilitation status

**Table 4: Drillhole/site rehabilitation status**

| Tenement | Program notification submit date | Drillhole | Date drilled | Drilling method* | Hole depth (m) | Number of sumps and dimensions | Drill pad size (m2) | Easting (GDA 94) | Northing (GDA 94) | Zone | Rehabilitation date | Status † | Planned rehabilitation date | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ML6109 | N/A | BIF0227 | 31/10/2023 | RM | 138 | 1 2x4x1.5 | 400 | 471168.8 | 6488413.3 | 54 | | PR | April 2024 | 3m PVC collar to be removed and rehabbed |
| | | BIF0228 | 31/10/2023 | RM | 130 | 1 2x4x1.5 | 400 | 471200.8 | 6488384.9 | 54 | 14/01/2024 | C | | |
| | | BIF0229 | 1/11/2023 | RM | 132 | 1 2x4x1.5 | 400 | 471292.8 | 6488336.9 | 54 | 14/01/2024 | C | | |
| | | BIF0230 | 1/11/2023 | RM | 132 | 1 2x4x1.5 | 400 | 471302.1 | 6488301.7 | 54 | 15/01/2024 | C | | |
| | | BIF0231 | 2/11/2023 | RM | 132 | 1 2x4x1.5 | 400 | 471376.7 | 6488386.3 | 54 | | N | April 2024 | |
| | | BIF0232 | 3/11/2023 | RM | 60 | 1 2x4x1.5 | 400 | 471406.1 | 6488357.2 | 54 | | PR | April 2024 | 3m PVC collar to be removed and rehabbed from BIF0233 |
| | | BIF0233 | 4/11/2023 | RM | 132 | 1 2x4x1.5 | 400 | 471406.3 | 6488357.2 | 54 | | PR | April 2024 | 3m PVC collar to be removed and rehabbed |
| | | BIF0234 | 5/11/2023 | RM | 132 | 1 2x4x1.5 | 400 | 471293.5 | 6488460.5 | 54 | 10/03/2024 | C | | |
| | | BIF0235 | 12/12/2023 | RM | 133 | 1 2x4x1.5 | 400 | 471329.8 | 6488464.0 | 54 | 10/03/2024 | C | | |
| | | BIF0236 | 12/12/2023 | RM | 133 | 1 2x4x1.5 | 400 | 471342.4 | 6488417.2 | 54 | 16/02/2024 | C | | |
| | | BIF0237 | 13/12/2023 | RM | 133 | 1 2x4x1.5 | 400 | 471418.0 | 6488429.5 | 54 | | | | |
| | | BIF0238 | 13/12/2023 | RM | 133 | 1 2x4x1.5 | 400 | 471463.5 | 6488448.8 | 54 | 16/02/2024 | C | | |
| | | BIF0239 | 13/12/2023 | RM | 133 | 1 2x4x1.5 | 400 | 471518.8 | 6488396.6 | 54 | 16/02/2024 | C | | |
| | | BIF0240 | 14/12/2023 | RM | 132 | 1 2x4x1.5 | 400 | 471496.2 | 6488508.7 | 54 | 16/02/2024 | C | | |
| | | BIF0241 | 15/12/2023 | RM | 133 | 1 2x4x1.5 | 400 | 471544.5 | 6488557.4 | 54 | 16/02/2024 | C | | |
| | | BIF0242 | 15/12/2023 | RM | 120 | 1 2x4x1.5 | 400 | 471611.5 | 6488554.2 | 54 | 01/03/2024 | C | | |
| | | BIF0243 | 15/12/2023 | RM | 127 | 1 2x4x1.5 | 400 | 471597.2 | 6488621.9 | 54 | 16/02/2024 | C | | |
| | | BIF0244 | 16/12/2023 | RM | 133 | 1 2x4x1.5 | 400 | 471459.0 | 6488510.7 | 54 | 16/02/2024 | C | | |
| | | EK05 | | | | 1 2x4x1.5 | 400 | 471435.5 | 6488535.5 | 54 | | N | | Not Drilled |
| | | EK19 | | | | 1 2x4x1.5 | 400 | 471553.6 | 6488527.3 | 54 | 16/02/2024 | C | | Not Drilled |
| | | EK27 | | | | 1 2x4x1.5 | 400 | 471786.1 | 6488657.9 | 54 | | N | | Not Drilled |
| | | EK29 | | | | 1 2x4x1.5 | 400 | 471696.5 | 6488662.4 | 54 | | N | | Not Drilled |

| Tenement | Program notification submit date | Drillhole | Date drilled | Drilling method* | Hole depth (m) | Number of sumps and dimensions | Drill pad size (m2) | Easting (GDA 94) | Northing (GDA 94) | Zone | Rehabilitation date | Status † | Planned rehabilitation date | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | EK31 | | | | 1 2x4x1.5 | 400 | 471677.6 | 6488697.4 | 54 | | N | | Not Drilled |
| | | EK32 | | | | 1 2x4x1.5 | 400 | 471664.4 | 6488633.2 | 54 | | N | | Not Drilled |
| | | EK33 | | | | 1 2x4x1.5 | 400 | 471616.0 | 6488654.7 | 54 | | N | | Not Drilled |
| | | EK38 | | | | 1 2x4x1.5 | 400 | 471786.6 | 6488713.1 | 54 | | N | | Not Drilled |
| | | EK39 | | | | 1 2x4x1.5 | 400 | 471749.8 | 6488714.8 | 54 | | N | | Not Drilled |

* AC = aircore/vacuum, RM = rotary mud, RC = reverse circulation, RAB = rotary air blast, D = diamond, P = percussion, V = vibracore, O = other.

† C = drillsite completely rehabilitated, N = no rehabilitation completed, PR = partial rehabilitation (specify remaining rehabilitation to be completed within the comments section).

**Table 5: Drillhole abandonment summary**

| Tenement | Drillhole | Aquifer(s) intersected (yes or no) | Backfilling requirements (e.g. cuttings only or cuttings and cement grout plugs) | Total depth (m) | Drilling completion date | Aquifer formation name | Aquifer interval (from–to) (m) | Type of aquifer(s) intersected (e.g. unconfined, confined or artesian) | Cementing interval (from–to) (m) | Comment |
|---|---|---|---|---|---|---|---|---|---|---|
| ML6109 | BIF0227 | Y | Grouted from EOH to surface | 138 | 31/10/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0228 | Y | Grouted from EOH to surface | 130 | 31/10/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0229 | Y | Grouted from EOH to surface | 132 | 1/11/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0230 | Y | Grouted from EOH to surface | 132 | 1/11/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0231 | Y | Grouted from EOH to surface | 132 | 2/11/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0232 | Y | Grouted from EOH to surface | 60 | 3/11/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0233 | Y | Grouted from EOH to surface | 132 | 4/11/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0234 | Y | Grouted from EOH to surface | 132 | 5/11/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0235 | Y | Grouted from EOH to surface | 133 | 12/12/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0236 | Y | Grouted from EOH to surface | 133 | 12/12/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0237 | Y | Grouted from EOH to surface | 133 | 13/12/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0238 | Y | Grouted from EOH to surface | 133 | 13/12/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0239 | Y | Grouted from EOH to surface | 133 | 13/12/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0240 | Y | Grouted from EOH to surface | 132 | 14/12/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0241 | Y | Grouted from EOH to surface | 133 | 15/12/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |

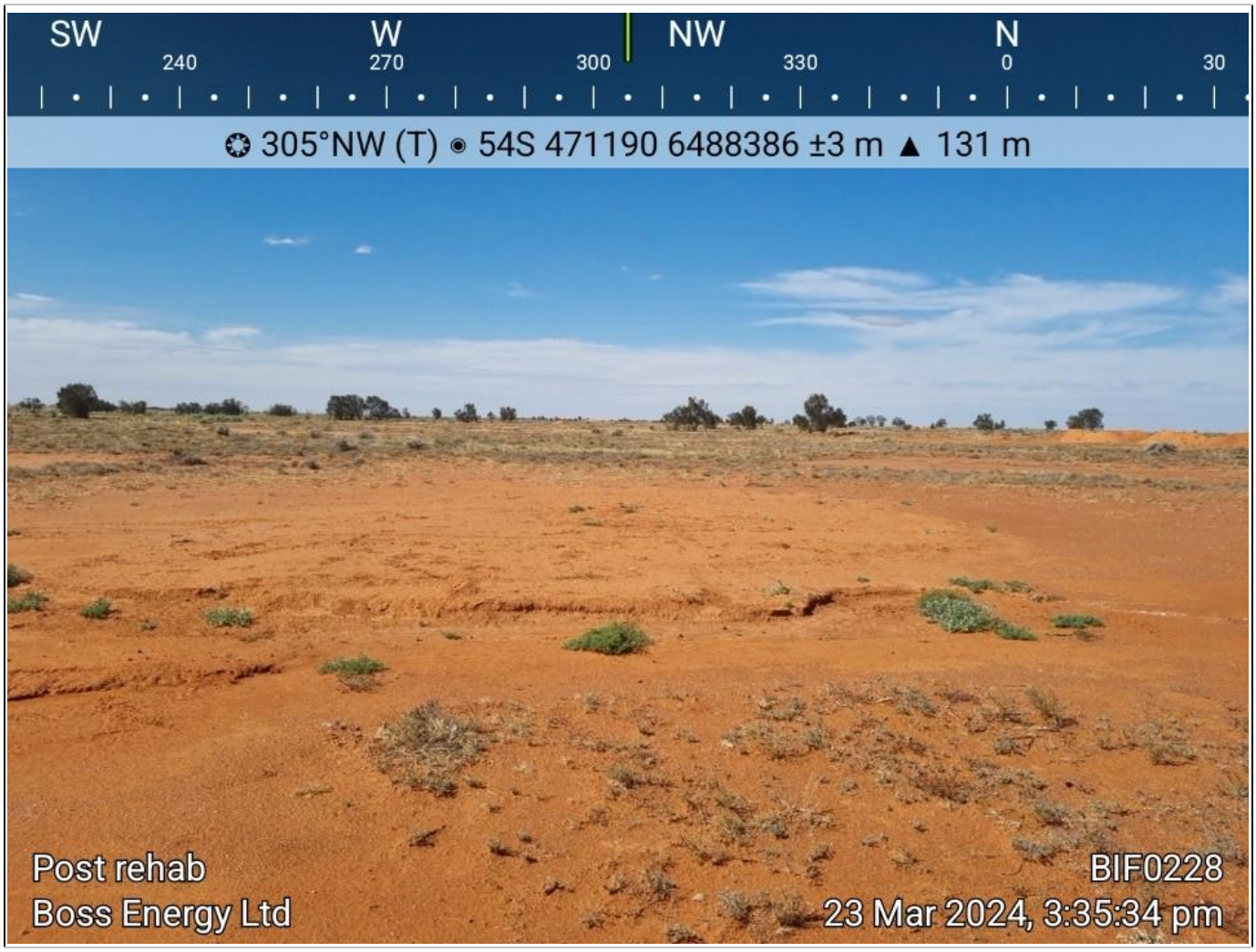
## Appendix D – Exploration on ML6109

| Tenement | Drillhole | Aquifer(s) intersected (yes or no) | Backfilling requirements (e.g. cuttings only or cuttings and cement grout plugs) | Total depth (m) | Drilling completion date | Aquifer formation name | Aquifer interval (from–to) (m) | Type of aquifer(s) intersected (e.g. unconfined, confined or artesian) | Cementing interval (from–to) (m) | Comment |
|---|---|---|---|---|---|---|---|---|---|---|
| | BIF0242 | Y | Grouted from EOH to surface | 120 | 15/12/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0243 | Y | Grouted from EOH to surface | 127 | 15/12/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |
| | BIF0244 | Y | Grouted from EOH to surface | 133 | 16/12/2023 | Eocene | 70 to 120 | Confined | 0-EOH | |

## SECTION C – PHOTOS

### Photo-monitoring

| Site identification/details | Date taken | Easting (GDA94) | Northing (GDA94) | Zone | Comments |
|---|---|---|---|---|---|
| BIF0228 | 23/03/2024 | 471200.8 | 6488384.9 | 54 | |
| BIF0229 | 23/03/2024 | 471292.8 | 6488336.9 | 54 | |
| BIF0230 | 23/03/2024 | 471302.1 | 6488301.7 | 54 | |
| BIF0234 | 26/03/2024 | 471293.5 | 6488460.5 | 54 | |
| BIF0235 | 23/03/2024 | 471329.8 | 6488464.0 | 54 | |
| BIF0236 | 23/03/2024 | 471342.4 | 6488417.2 | 54 | |
| BIF0237 | 23/03/2024 | 471418.0 | 6488429.5 | 54 | |
| BIF0238 | 23/03/2024 | 471463.5 | 6488448.8 | 54 | |
| BIF0239 | 23/03/2024 | 471518.8 | 6488396.6 | 54 | |
| BIF0240 | 23/03/2024 | 471496.2 | 6488508.7 | 54 | |
| BIF0241 | 23/03/2024 | 471544.5 | 6488557.4 | 54 | |
| BIF0242 | 23/03/2024 | 471611.5 | 6488554.2 | 54 | |
| BIF0243 | 23/03/2024 | 471597.2 | 6488621.9 | 54 | |
| BIF0244 | 23/03/2024 | 471459.0 | 6488510.7 | 54 | |
| EK19 | 26/03/2024 | 471553.6 | 6488527.3 | 54 | |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240
W
270
300
NW
330
N
0
30
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Post rehab
Boss Energy Ltd
BIF0228
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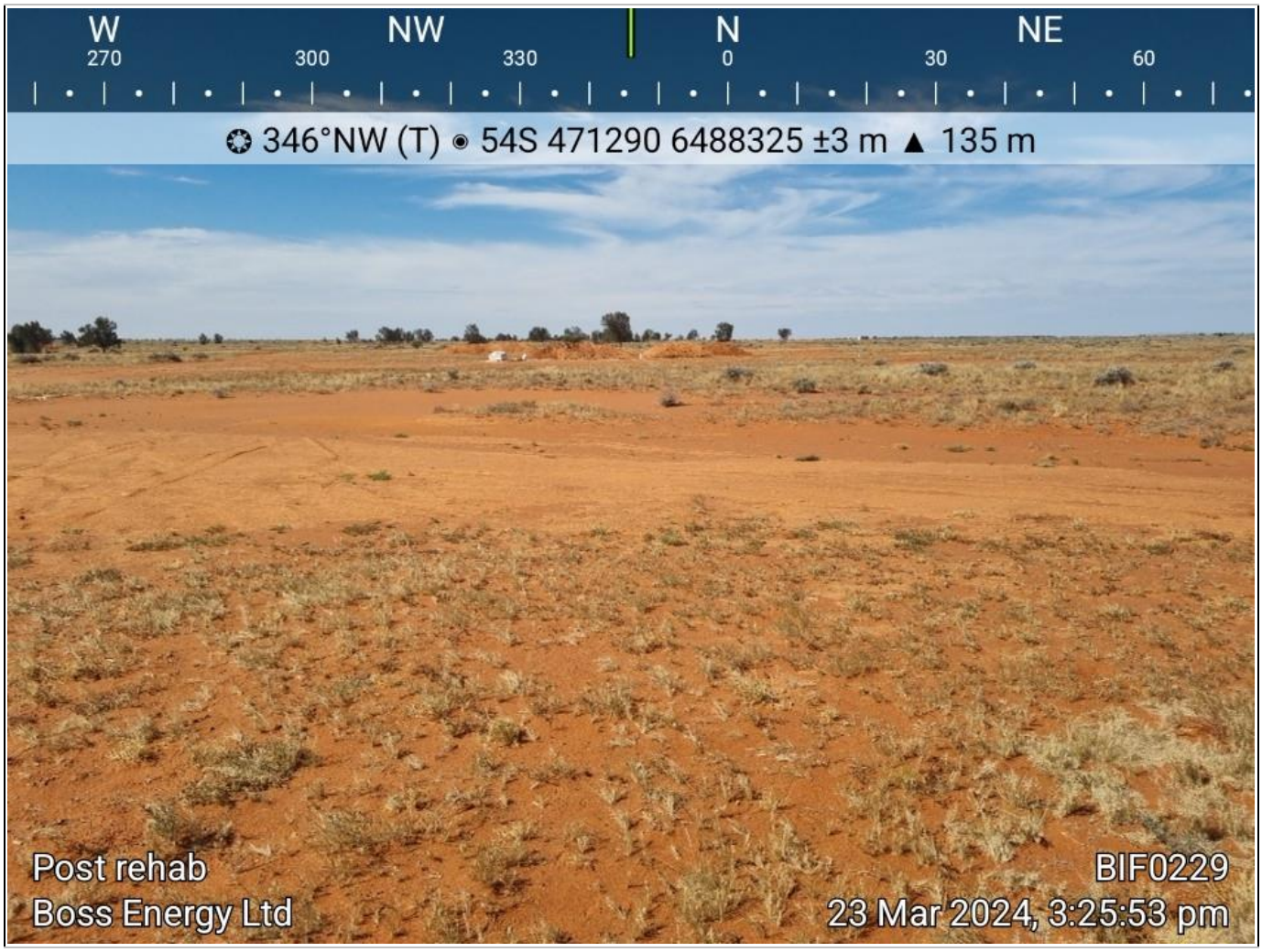
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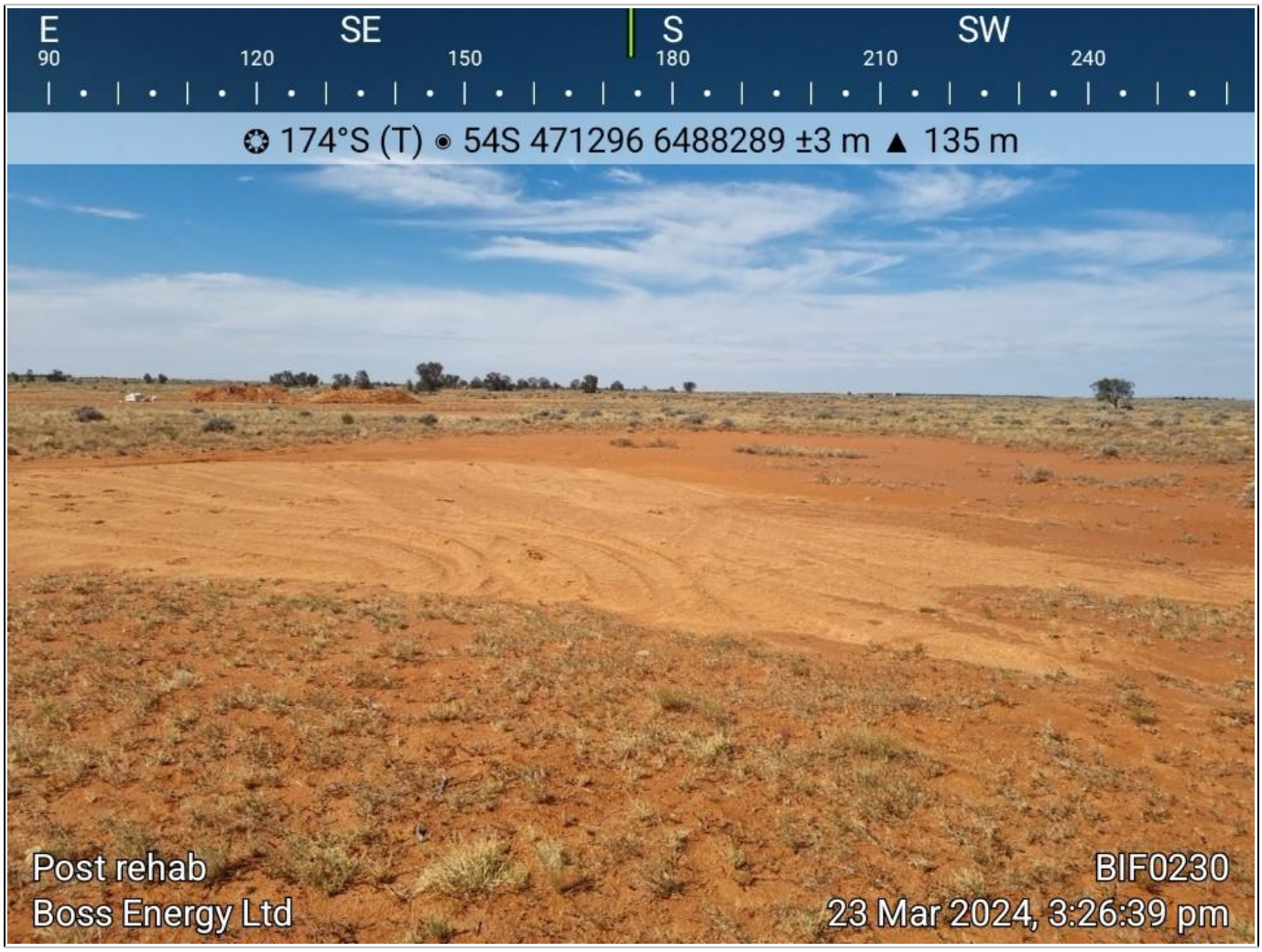
E
SE
S
SW
90
120
150
180
210
240
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Post rehab
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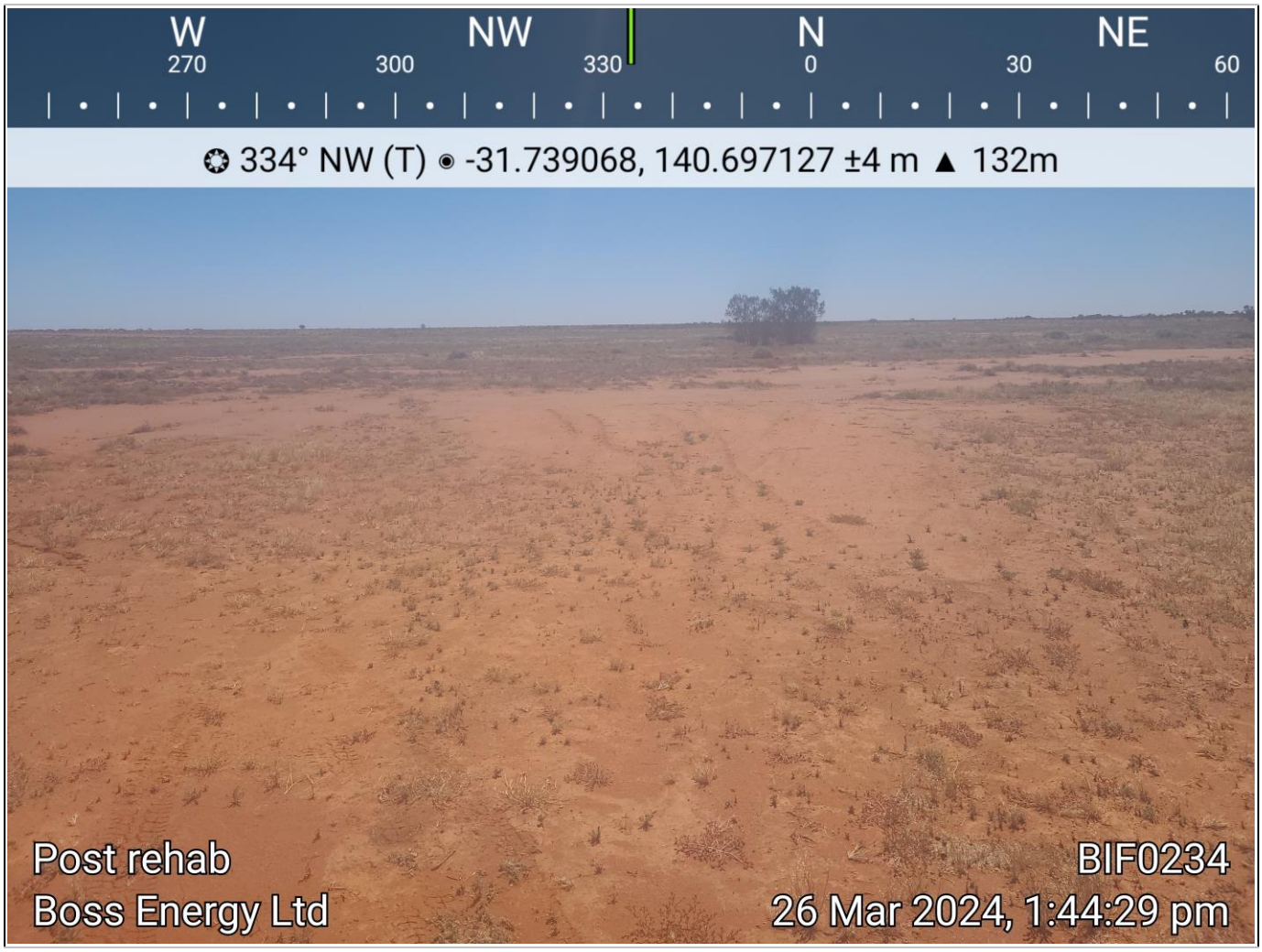
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NW
300
330
N
0
NE
30
60
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Post rehab
Boss Energy Ltd
BIF0234
26 Mar 2024, 1:44:29 pm


W
270
NW
300
330
N
0
323°NW (T) 54S 471327 6488457 ±3 m ▲ 133 m
Post rehab
Boss Energy Ltd
BIF0235
23 Mar 2024, 3:18:46 pm


S
SW
W
NW
150
180
210
240
270
300
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Post rehab
Boss Energy Ltd
BIF0236
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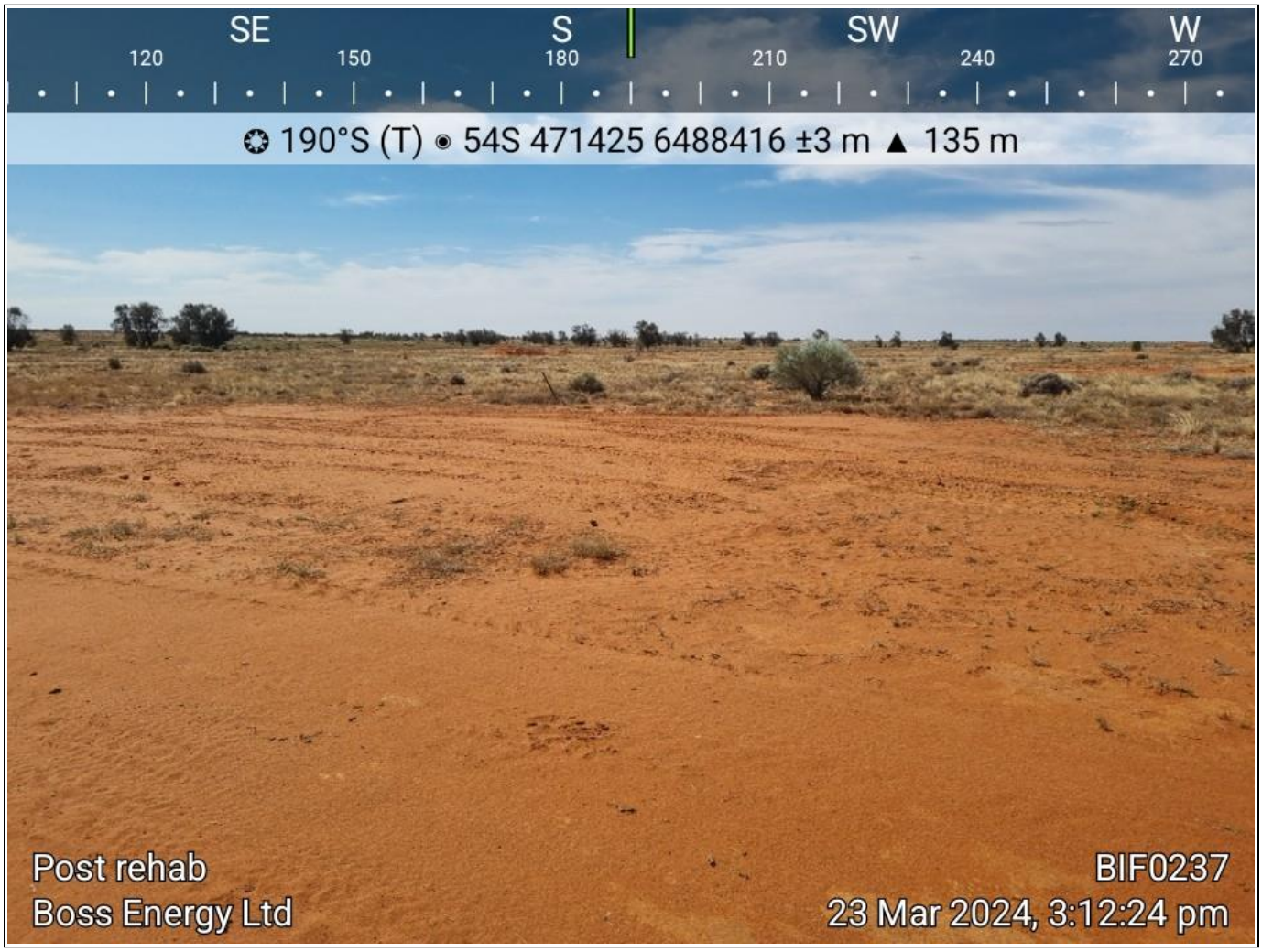
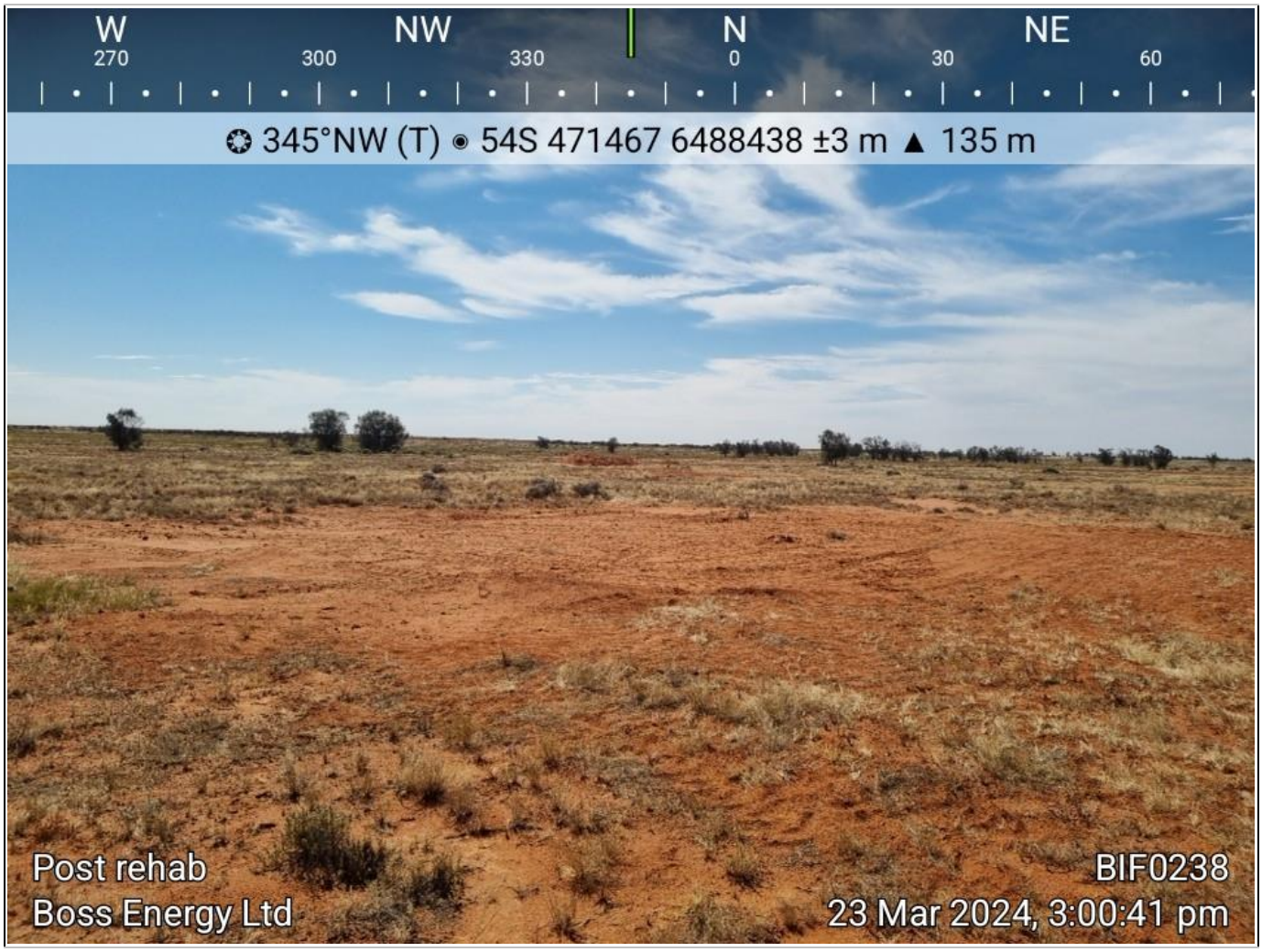
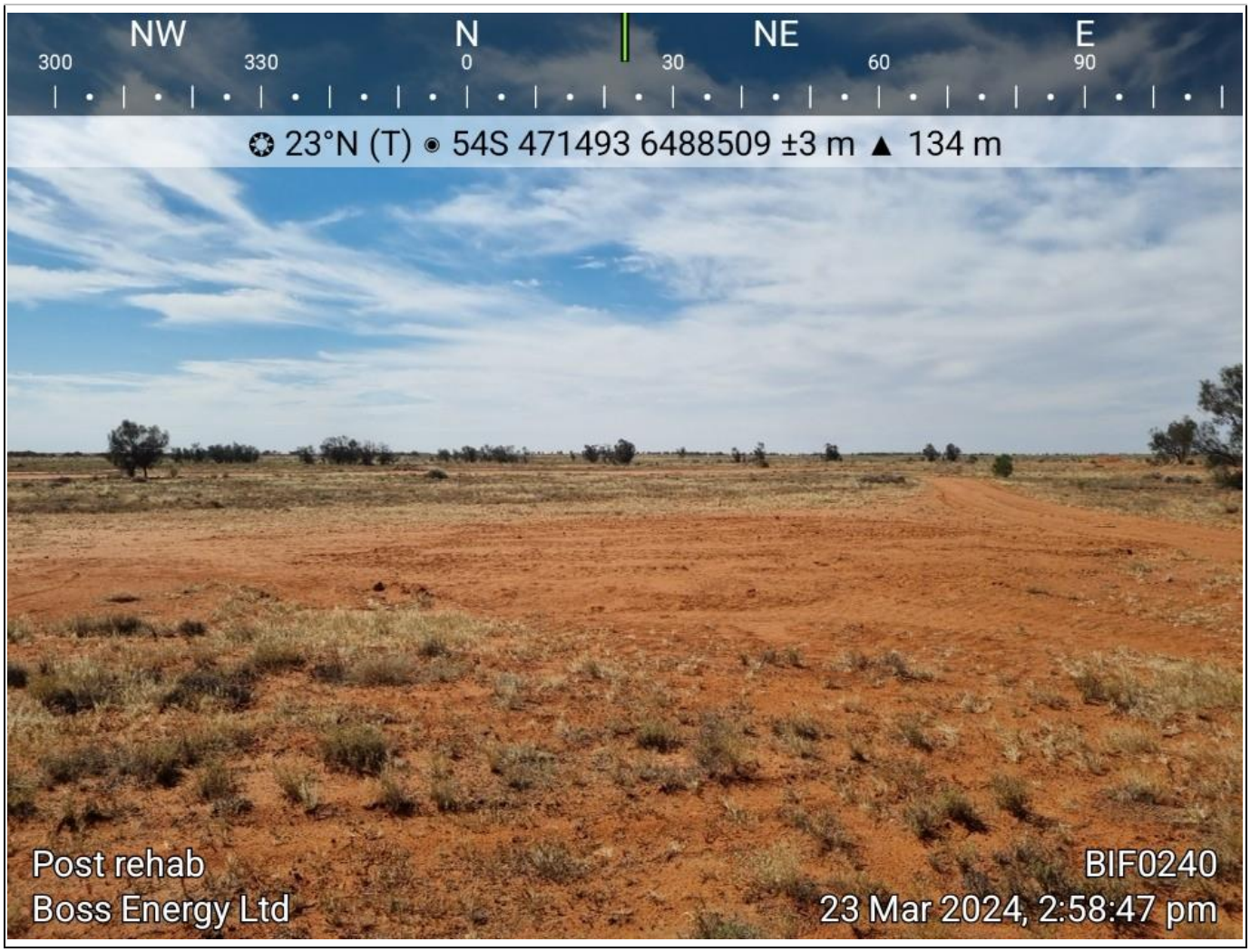

SE
S
SW
W
120
150
180
210
240
270
190°S (T) 54S 471425 6488416 ±3 m ▲ 135 m
Post rehab
Boss Energy Ltd
BIF0237
23 Mar 2024, 3:12:24 pm


W
270
NW
300
330
N
0
NE
30
60
345°NW (T) 54S 471467 6488438 ±3 m ▲ 135 m
Post rehab
Boss Energy Ltd
BIF0238
23 Mar 2024, 3:00:41 pm


NW
N
NE
300
330
0
30
355°N (T) 54S 471499 6488375 ±3 m ▲ 136 m
Post rehab
Boss Energy Ltd
BIF0239
23 Mar 2024, 3:10:44 pm

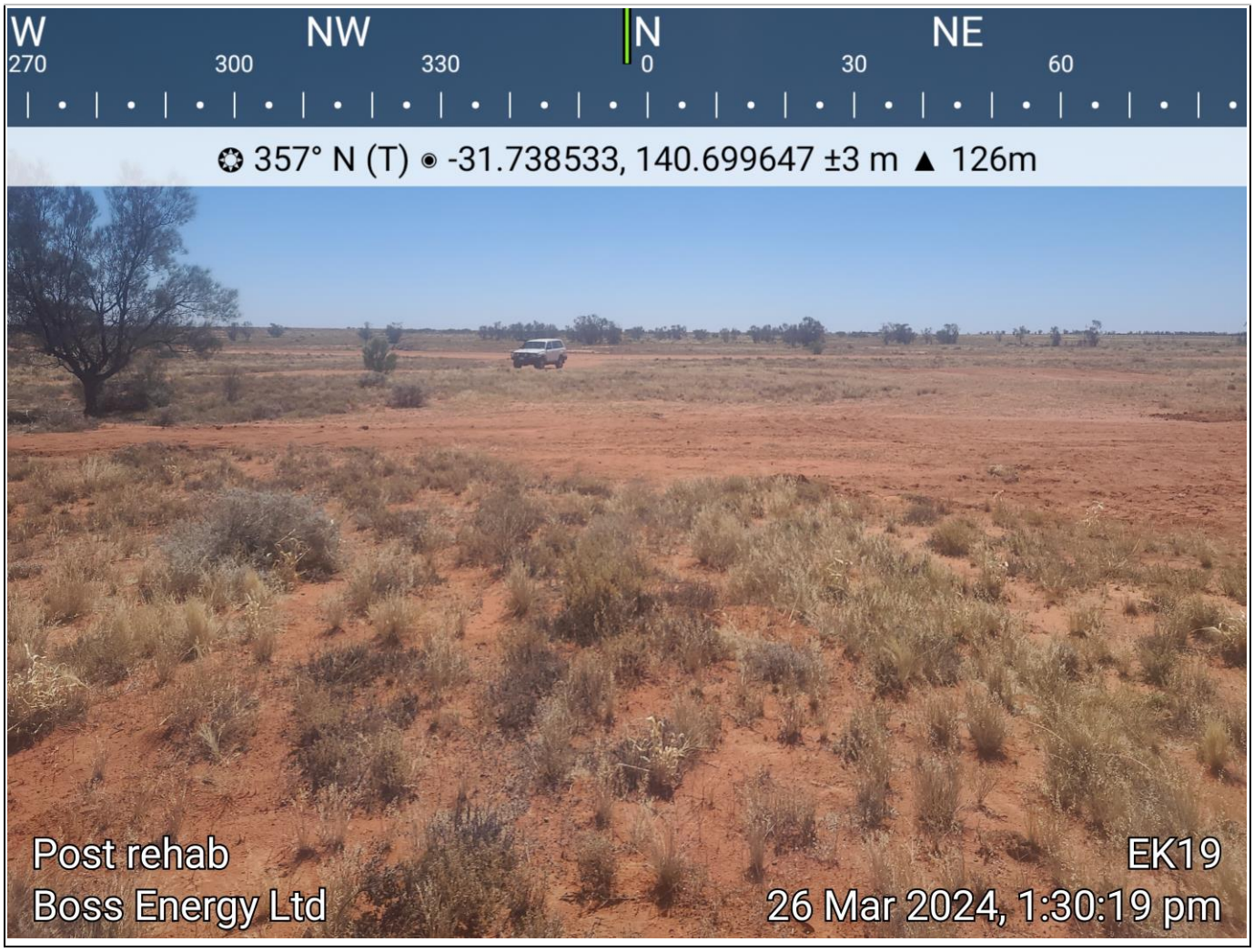

NW
N
NE
E
300
330
0
30
60
90
23°N (T) 54S 471493 6488509 ±3 m ▲ 134 m
Post rehab
Boss Energy Ltd
BIF0240
23 Mar 2024, 2:58:47 pm


W
270
NW
300
330
N
0
NE
30
60
341°NW (T) 54S 471553 6488507 ±3 m ▲ 134 m
Post rehab
Boss Energy Ltd
BIF0241
23 Mar 2024, 3:03:09 pm


W
NW
N
NE
270
300
330
0
30
60
356°N (T) 54S 471619 6488533 ±3 m ▲ 134 m
Post rehab
Boss Energy Ltd
BIF0242
23 Mar 2024, 3:04:51 pm


NW
N
300
330
0
30
344°NW (T)
54S 471595 6488601 ±4 m
138 m
Post rehab
Boss Energy Ltd
BIF0243
23 Mar 2024, 2:54:43 pm


W
NW
N
NE
270
300
330
0
30
60
353°N (T) 54S 471452 6488493 ±3 m ▲ 135 m
Post rehab
Boss Energy Ltd
BIF0244
23 Mar 2024, 2:59:38 pm


W
NW
N
NE
270
300
330
0
30
60
357° N (T) -31.738533, 140.699647 ±3 m ▲ 126m
Post rehab
Boss Energy Ltd
EK19
26 Mar 2024, 1:30:19 pm

## SECTION D – MAPS

| Date prepared | Site identification/details | Comments |
|---|---|---|
| March 2024 | All 2023 Mud Rotary drillholes shown below have been rehabilitated with the exception of BIF0227, BIF0231, BIF0232 & BIF0233. | |